



**PHASE II ENVIRONMENTAL SITE ASSESSMENT  
VACANT LOT  
2224-38 N. 10<sup>TH</sup> STREET  
CITY AND COUNTY OF PHILADELPHIA, PENNSYLVANIA**

**Prepared For: Philadelphia Redevelopment Authority  
1234 Market Street, 16<sup>th</sup> Floor  
Philadelphia, PA 19107**

**EEI Project No. 27836.01**

**June 9, 2015**

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## APPENDIX

ALS Environmental Certificate of Analysis



# 1 General Information

Earth Engineering, Inc. (EEI) was contracted by the Philadelphia Redevelopment Authority to perform a Phase II Environmental Site Assessment (ESA) for the subject property located at 2224-38 N. 10th Street, Philadelphia City and County, Pennsylvania. A Phase I ESA has been conducted by EEI Dated April 28, 2015 which identified an industrial use history including a warehouse for the storage of spices and condiments, wall paper manufacturing. The industrial use also included the operation of a boiler house and coal storage facility on the property as well as a rail siding which entered the property from the northwestern corner and proceeded eastward down the center of the property.

# 2 Executive Summary

## 2.1 Subject Property Description

The subject property is a single parcel of land approximately 0.91 acres in size. The property is located on the western side of N. 10<sup>th</sup> Street between W. Nevada St to the north, and W. Colona Street to the south. The western boundary of the property is with the adjacent elevated rail lines operated by SEPTA. The property is zoned I-2 Industrial, and is presently a vacant lot surrounded by concrete obstacles. The property center is at approximately 39° 59' 10.8" north latitude, 75° 8' 59.4" west longitude. The location of the subject property is shown on the map below.

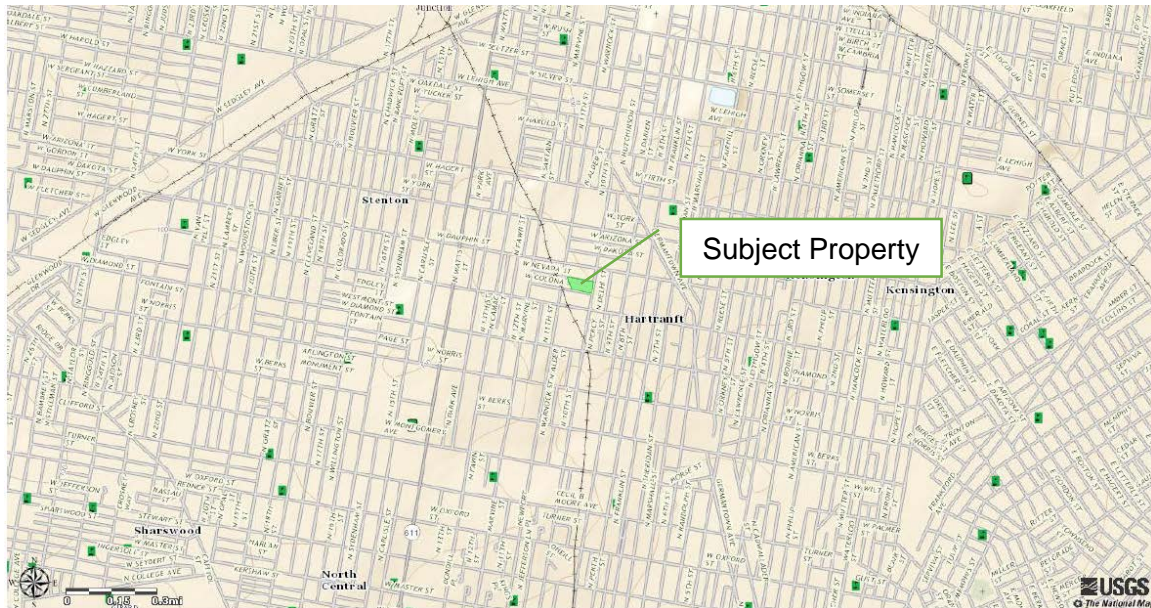


Figure 1 Subject Property Location Shown on USGS National Map



## **2.2 Scope of Work**

EEI observed the subsurface soils in a series of test pits performed with a Case rubber tire backhoe. A series of five test pits were excavated across the site. The recovered soil was screened for Volatile Organic Compounds (VOC) using a calibrated Photo Ionization Detector (PID). The soils were visually classified and described, and are documented in this report in the appendix.

Samples of the soils were collected for laboratory analysis of Priority Pollutant Metals and Target Compound List Volatile Organic Compounds (VOC), Semi Volatile Organic Compounds (SVOC), and the Poly Chlorinated Biphenyls (PCB).

Upon completion of the laboratory analysis, the results were compared to the PADEP Statewide Health Standards (SHS) for each detection.

## **2.3 Environmental Report Summary**

Earth Engineering, Inc. (EEI) was contracted to perform a Phase II Environmental Site Assessment (ESA) for the subject property located at 2224-38 N. 10<sup>th</sup> Street, Philadelphia City and, Pennsylvania, *the property*.

Historic fill materials consisting of brick, block, concrete, slag, and stone mixed with soil material was encountered all excavations which indicated the former industrial building has been collapsed into its foundations. Brick and concrete fill was encountered from beneath the surface topsoil which extends from 1.0 to 2.0 feet below ground surface. The fill materials included the presence of interior non-structural items which indicate that the structure was not entirely empty or cleared out prior to the demolition. Materials encountered include cable, interior doors, waste bins, hoses, etc.

The laboratory analysis found trace concentrations of VOC and PCB in the samples which were orders of magnitude below the applicable PADEP SHS. SVOC analysis identified one or more compound which exceeded the SHS in four of the five locations. The concentration of arsenic exceeded the SHS at two of the five locations, and the lead concentration in one of the five locations was greater than the SHS.

One sample location, identified as S-5 located on the southern portion of the property near Colona Street found no concentrations greater than the applicable SHS of any metal or



compound. This location showed the shallowest demolition fill strata of any of the locations.

## ***2.4 Recommendations***

EEl recommends that any development plans include provision for the historic fill materials on the site. These fill materials are not clean fill and may not be exported from the site as such. The samples of the soils and historic fill materials indicate that concentrations of several analytes are greater than the SHS. Development plans should include the remediation of these materials to protect the environment and public from adverse impacts.

## ***2.5 Limitations and Exceptions***

The data and conclusions contained in this report are based upon available information obtained for the site and observations made in the field. Discrepancies or inaccuracies regarding any data provided are not the responsibility of EEl. EEl further assumes no responsibility or liability for environmentally hazardous materials, which are the responsibility of the site owners, adjacent property owners, or other persons or entities.

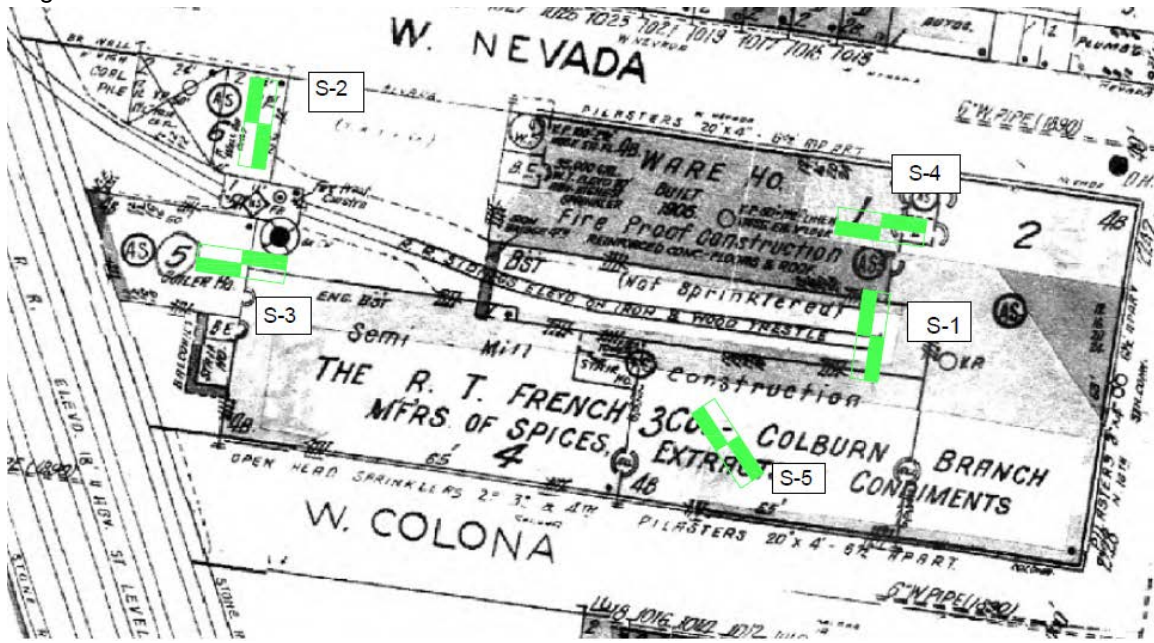
# **3 Field Investigation**

## ***3.1 Boring Locations and Description***

A series of test pit locations were selected for examination based on the findings of the previous Phase I ESA.

The site sketch of the testing locations is shown below.





**Figure 2 Site Sketch Showing Boring Locations over the 1951 Sanborn Fire Insurance Map of Site.**

All these locations were grass covered areas at the surface. A soil layer extended from the surface to between one and two feet deep.

Beneath the surficial soils all borings encountered a predominantly brick fill. This consisted of full and broken bricks, concrete, metal components and parts, plastic, wood, and miscellaneous debris and waste materials. Foundations of mortared brick and reinforced concrete were encountered from approximately three feet below the ground surface in locations S-1, S-2, S-3 and S-4. Excavations were extended horizontally where these foundation structures could not be penetrated with the backhoe.

A micaceous sand with silt and trace gravel was encountered beneath the fills and foundations in all of the excavations. One sample was collected from each of the excavations from the material which was deemed most likely to exhibit contamination based on the field screening and visual observations.

### **3.2 VOC Screening**

The soils recovered from the excavations was screened using a Rae Systems MiniRae 3000 Photo Ionization Detector. The detector was calibrated prior to the beginning of field

work using 100 ppm isobutylene span gas. The background or ambient air readings on the site varied between 0.0 and 0.3 ppm.

Screening was accomplished by punching a ¼ inch diameter hole into the recovered soils using a stainless steel probe. The intake of the meter was then placed within the cavity and the soil gases measured. If readings were questionable for any reason, such as a gust of wind etc. a small portion of the recovered soils were placed in a plastic zipper bag and screened.

No VOC readings were detected in any of the recovered soils.

### 3.3 Laboratory Analysis

ALS Environmental Laboratories of Middletown, PA was directed to analyze the samples. The analytical results were returned to EEI on May 12, 2015. EEI reviewed and tabulated the results, and compared them with the PADEP Statewide Health Standard. The laboratory results are presented below.

Table 1 - Volatile Organic Compounds							
ANALYTE	UNITS	S-1	S-2	S-3	S-4	S-5	SHS
Acetone	ug/kg	60.6	73.4	94.2	57.6	22.4	3300000
Benzene	ug/kg	ND	ND	ND	2.6	ND	500
Methylene Chloride	ug/kg	3.1	ND	ND	ND	ND	500
Tetrachloroethene	ug/kg	10	15.9	17.2	9.5	ND	500
Toluene	ug/kg	ND	ND	ND	3	ND	100000
Trichloroethene	ug/kg	ND	3.7	ND	ND	ND	500

Table 2 - Poly-Chlorinated Biphenyls							
ANALYTE	UNITS	S-1	S-2	S-3	S-4	S-5	SHS
Total Polychlorinated Biphenyl	mg/kg	ND	0.13	ND	0.071	ND	
Aroclor-1248	mg/kg	ND	0.04	ND	ND	ND	9
Aroclor-1254	mg/kg	ND	0.06	ND	ND	ND	4.4
Aroclor-1260	mg/kg	ND	ND	ND	0.04	ND	30



Table 3 - Semi-Volatile Organic Compounds							
ANALYTE	UNITS	S-1	S-2	S-3	S-4	S-5	SHS
Acenaphthene	ug/kg	143	2410	3260	350	ND	2700000
Acenaphthylene	ug/kg	ND	2060	3070	502	ND	2500000
Anthracene	ug/kg	543	6720	15700	1160	ND	350000
Benzo(a)anthracene	ug/kg	1590	15300	37500	3440	389	5700
Benzo(a)pyrene	ug/kg	1520	13800	30300	3550	383	570
Benzo(b)fluoranthene	ug/kg	1940	18000	41300	4540	450	5700
Benzo(g,h,i)perylene	ug/kg	954	7320	16200	2260	236	180000
Benzo(k)fluoranthene	ug/kg	722	6680	16600	1810	206	57000
Biphenyl	ug/kg	ND	227	295	ND	ND	790000
Carbazole	ug/kg	243	2540	7540	840	ND	21000
Chrysene	ug/kg	1550	14700	35000	3400	372	230000
Dibenzo(a,h)anthracene	ug/kg	274	3470	4990	632	ND	570
Dibenzofuran	ug/kg	ND	1820	3350	280	ND	95000
bis(2-Ethylhexyl)phthalate	ug/kg	ND	357	ND	ND	ND	130000
Fluoranthene	ug/kg	3090	32800	75400	6680	767	3200000
Fluorene	ug/kg	176	3700	4700	423	ND	3000000
Indeno(1,2,3-cd)pyrene	ug/kg	1030	8040	18200	2400	249	5700
2-Methylnaphthalene	ug/kg	ND	408	1250	114	ND	600000
Naphthalene	ug/kg	ND	722	2280	314	ND	25000
Phenanthrene	ug/kg	2040	23100	49800	4360	332	10000000
Pyrene	ug/kg	2850	27200	61900	5680	703	2200000

Table 4 - Metals							
ANALYTE	UNITS	S-1	S-2	S-3	S-4	S-5	SHS
Antimony, Total	mg/kg	1.3	1.5	2.5	5.3	ND	27
Arsenic, Total	mg/kg	5	88.5	18.8	4.7	3.5	12
Beryllium, Total	mg/kg	1.2	ND	ND	ND	1.1	320
Cadmium, Total	mg/kg	1.2	2.4	2.1	2.3	ND	38
Chromium, Total	mg/kg	16.4	29.3	19.6	15.3	46.9	94
Copper, Total	mg/kg	102	27.2	68.7	67.7	49.5	8100
Lead, Total	mg/kg	93.7	410	387	513	49	450
Mercury, Total	mg/kg	0.099	0.12	0.3	0.25	ND	10
Nickel, Total	mg/kg	25.4	27.4	18.2	9.8	20.6	650
Thallium, Total	mg/kg	0.75	ND	ND	ND	ND	14
Zinc, Total	mg/kg	280	442	1330	519	113	12000





A copy of the laboratory Certificate of Analysis Report is included in the appendix of this report.

## 4 Analysis of Data and Conclusions

The laboratory analysis a relatively wide spread impact from SVOCs in the site soils. The detected concentrations are part of a subgroup of SVOC known as polycyclic aromatic hydrocarbons (PAH). These are commonly found in fossil fuels (oil and coal) and in tar deposits, and are produced, generally, when insufficient oxygen or other factors result in incomplete combustion of organic matter. The documented operation of coal storage indicates that coal has been burned on the property and it is likely that ash residue from this operation is left behind. The probable source of the elevated metals concentrations is not as clear or well documented in the site history, however inorganic constituents do not degrade during combustion, and the metals arsenic and lead have numerous historic applications which may account for the elevated presence of these metals.

A graphical presentation of the elevated concentrations (below) shows that the greater concentrations as well as number of exceedances are found on the western portion of the property. No exceedances were detected in the soils beneath the slab at the location S-5 which is the oldest part of the former structure.

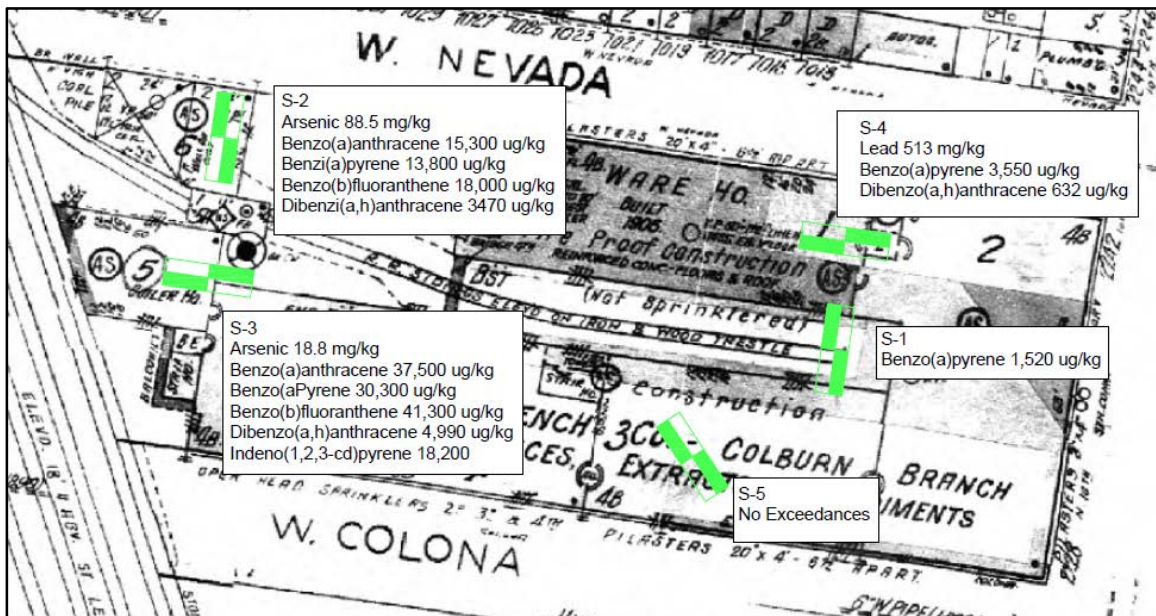


Figure 3 - Elevated Concentrations shown on 1951 Sanborn Fire Insurance Map.



The results indicate that the site is likely eligible for entry into the PADEP Act 2 program. Remediation is likely able to be accomplished as part of a development plan and can include relocating contaminated materials to non-contact areas such as beneath slabs and or pavement, or removal of contaminated materials from the site for disposal or recycling.

## 5 Signature

This report is intended to provide a professional service to the Philadelphia Redevelopment Authority and is intended to present a professional opinion regarding the subject property, located at 2224-38 N. 10<sup>th</sup> Street, Philadelphia City and County, Pennsylvania.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined in section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set for in 40 CFR Part 312.

Respectfully submitted,  
**EARTH ENGINEERING, INCORPORATED**

David Van Keuren  
GeoEnvironmental Project Manager



June 5, 2015

Mr. David Van-Keuren  
Earth Engineering, Inc.  
115 West Germantown Pike  
Norristown, PA 19401

## Certificate of Analysis

Project Name: <b>2015-NORTH 10th STREET,</b>	Workorder: <b>2072719</b>
Purchase Order:	Workorder ID: <b>2015-NORTH 10th STREET, PHILA</b>

Dear Mr. Van-Keuren:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 22, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

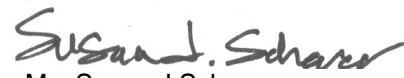
If you have any questions regarding this certificate of analysis, please contact Ms. Susan J Scherer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

  
Ms. Susan J Scherer  
Project Coordinator

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

### SAMPLE SUMMARY

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2072719001	S-1	Solid	5/22/2015 08:05	5/22/2015 20:00	Collected by Client
2072719002	S-2	Solid	5/22/2015 08:43	5/22/2015 20:00	Collected by Client
2072719003	S-3	Solid	5/22/2015 09:14	5/22/2015 20:00	Collected by Client
2072719004	S-4	Solid	5/22/2015 10:57	5/22/2015 20:00	Collected by Client
2072719005	S-5	Solid	5/22/2015 11:33	5/22/2015 20:00	Collected by Client

**Notes**

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

**Standard Acronyms/Flags**

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

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### PROJECT SUMMARY

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

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#### Sample Comments

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**Lab ID:** 2072719001

**Sample ID:** S-1

**Sample Type:** SAMPLE

In the 8260 analysis, several compounds were recovered outside quality control criteria in the matrix spike of this sample/  
The PAH selective monitoring analysis for low level PAH determinations could not be performed on this sample due to the high levels of target and non-target analytes present.

**Lab ID:** 2072719002

**Sample ID:** S-2

**Sample Type:** SAMPLE

SAMPLE-SVMS-SIM

**Lab ID:** 2072719003

**Sample ID:** S-3

**Sample Type:** SAMPLE

SAMPLE-SVMS-SIM

**Lab ID:** 2072719004

**Sample ID:** S-4

**Sample Type:** SAMPLE

This sample was extracted and analyzed in duplicate for the Method 8270 analysis. The precision measurement was outside laboratory control limits for one or more compounds detected in this sample.

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719001**

Date Collected: 5/22/2015 08:05

Matrix: Solid

Sample ID: **S-1**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>									
Acetone	60.6		ug/kg	15.6	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Benzene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Bromochloromethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Bromodichloromethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Bromoform	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Bromomethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
2-Butanone	ND		ug/kg	15.6	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Carbon Disulfide	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Carbon Tetrachloride	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Chlorobenzene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Chlorodibromomethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Chloroethane	ND		ug/kg	7.8	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Chloroform	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Chloromethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Cyclohexane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.8	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,2-Dibromoethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,2-Dichlorobenzene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,3-Dichlorobenzene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,4-Dichlorobenzene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Dichlorodifluoromethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,1-Dichloroethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,2-Dichloroethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,1-Dichloroethene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
cis-1,2-Dichloroethene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,2-Dichloropropane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
cis-1,3-Dichloropropene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
trans-1,3-Dichloropropene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,4-Dioxane	ND		ug/kg	117	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Ethylbenzene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Freon 113	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
2-Hexanone	ND		ug/kg	15.6	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Isopropylbenzene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Methyl acetate	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Methyl cyclohexane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

 Lab ID: **2072719001**

Date Collected: 5/22/2015 08:05

Matrix: Solid

 Sample ID: **S-1**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	15.6	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Methylene Chloride	3.1	1	ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Styrene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Tetrachloroethene	10.0		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Toluene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,2,3-Trichlorobenzene	ND		ug/kg	7.8	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,2,4-Trichlorobenzene	ND		ug/kg	7.8	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Trichloroethene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Trichlorofluoromethane	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Vinyl Chloride	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
o-Xylene	ND		ug/kg	3.1	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
mp-Xylene	ND		ug/kg	6.2	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	64.7		%	56 - 124	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
4-Bromofluorobenzene (S)	100		%	51 - 128	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Dibromofluoromethane (S)	66.8		%	62 - 123	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
Toluene-d8 (S)	77.1		%	59 - 131	SW846 8260B	5/22/15 JPA	5/26/15 05:39	JPA	A
<b>SEMIVOLATILES</b>									
Acenaphthene	143		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Acenaphthylene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Acetophenone	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Anthracene	543		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Atrazine	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Benzaldehyde	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Benzo(a)anthracene	1590		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Benzo(a)pyrene	1520		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Benzo(b)fluoranthene	1940		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Benzo(g,h,i)perylene	954		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Benzo(k)fluoranthene	722		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Biphenyl	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
4-Bromophenyl-phenylether	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Butylbenzylphthalate	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Caprolactam	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719001**

Date Collected: 5/22/2015 08:05

Matrix: Solid

Sample ID: **S-1**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Carbazole	243		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
4-Chloro-3-methylphenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
4-Chloroaniline	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
bis(2-Chloroethoxy)methane	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
bis(2-Chloroethyl)ether	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
bis(2-Chloroisopropyl)ether	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Chloronaphthalene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Chlorophenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
4-Chlorophenyl-phenylether	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Chrysene	1550		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
mp-Cresol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
o-Cresol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Di-n-Butylphthalate	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Di-n-Octylphthalate	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Dibenzo(a,h)anthracene	274		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Dibenzofuran	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
3,3-Dichlorobenzidine	ND		ug/kg	192	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,4-Dichlorophenol	ND		ug/kg	257	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Diethylphthalate	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,4-Dimethylphenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Dimethylphthalate	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,4-Dinitrophenol	ND		ug/kg	257	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,4-Dinitrotoluene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,6-Dinitrotoluene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
1,4-Dioxane	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
bis(2-Ethylhexyl)phthalate	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Fluoranthene	3090		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Fluorene	176		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Hexachlorobenzene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Hexachlorobutadiene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Hexachlorocyclopentadiene	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Hexachloroethane	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Indeno(1,2,3-cd)pyrene	1030		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Isophorone	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Methyl-4,6-dinitrophenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Methylnaphthalene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Naphthalene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Nitroaniline	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719001**

Date Collected: 5/22/2015 08:05

Matrix: Solid

Sample ID: **S-1**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
3-Nitroaniline	ND		ug/kg	462	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
4-Nitroaniline	ND		ug/kg	359	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Nitrobenzene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Nitrophenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
4-Nitrophenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
N-Nitroso-di-n-propylamine	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
N-Nitrosodiphenylamine	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Pentachlorophenol	ND		ug/kg	257	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Phenanthrene	2040		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Phenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Pyrene	2850		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	128	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,3,4,6-Tetrachlorophenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,4,5-Trichlorophenol	ND		ug/kg	346	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2,4,6-Trichlorophenol	ND		ug/kg	257	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	57.6		%	37 - 123	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Fluorobiphenyl (S)	66.2		%	45 - 105	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
2-Fluorophenol (S)	53.5		%	35 - 104	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Nitrobenzene-d5 (S)	70.3		%	41 - 110	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Phenol-d5 (S)	59.4		%	40 - 100	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
Terphenyl-d14 (S)	67.9		%	38 - 113	SW846 8270D	5/28/15 EAG	5/28/15 18:37	CGS	D
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Aroclor-1016	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Aroclor-1221	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Aroclor-1232	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Aroclor-1242	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Aroclor-1248	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Aroclor-1254	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Aroclor-1260	ND		mg/kg	0.042	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	70.7		%	46 - 120	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
Tetrachloro-m-xylene (S)	54.1		%	52 - 115	SW846 8082A	6/4/15 KAC	6/4/15 14:53	EGO	D
<b>WET CHEMISTRY</b>									
Moisture	23.1		%	0.1	S2540G-11		5/26/15 04:10	JP	A

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719001**

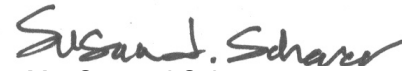
Date Collected: 5/22/2015 08:05

Matrix: Solid

Sample ID: **S-1**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Total Solids	76.9		%	0.1	S2540G-11		5/26/15 04:10	JP	A
<b>METALS</b>									
Antimony, Total	1.3		mg/kg	1.3	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Arsenic, Total	5.0		mg/kg	1.9	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Beryllium, Total	1.2		mg/kg	0.64	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Cadmium, Total	1.2		mg/kg	0.64	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Chromium, Total	16.4		mg/kg	1.3	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Copper, Total	102		mg/kg	3.2	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Lead, Total	93.7		mg/kg	1.3	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Mercury, Total	0.099		mg/kg	0.061	SW846 7471B	6/3/15 MNP	6/3/15 10:20	MNP	D2
Nickel, Total	25.4		mg/kg	3.2	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Selenium, Total	ND		mg/kg	3.2	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Silver, Total	ND		mg/kg	1.3	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Thallium, Total	0.75		mg/kg	0.64	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1
Zinc, Total	280		mg/kg	3.2	SW846 6020A	5/24/15 AAM	5/26/15 04:30	ZMC	D1



Ms. Susan J Scherer  
Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719002**

Date Collected: 5/22/2015 08:43

Matrix: Solid

Sample ID: **S-2**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>									
Acetone	73.4		ug/kg	13.4	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Benzene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Bromochloromethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Bromodichloromethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Bromoform	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Bromomethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
2-Butanone	ND		ug/kg	13.4	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Carbon Disulfide	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Chlorobenzene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Chlorodibromomethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Chloroethane	ND		ug/kg	6.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Chloroform	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Chloromethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Cyclohexane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,2-Dibromoethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,2-Dichlorobenzene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,3-Dichlorobenzene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,4-Dichlorobenzene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Dichlorodifluoromethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
cis-1,2-Dichloroethene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
cis-1,3-Dichloropropene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
trans-1,3-Dichloropropene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,4-Dioxane	ND		ug/kg	100	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Ethylbenzene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Freon 113	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
2-Hexanone	ND		ug/kg	13.4	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Isopropylbenzene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Methyl acetate	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Methyl cyclohexane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719002**

Date Collected: 5/22/2015 08:43

Matrix: Solid

Sample ID: **S-2**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	13.4	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Methylene Chloride	ND	1	ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Styrene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Tetrachloroethene	15.9		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Toluene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Trichloroethene	3.7		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Trichlorofluoromethane	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Vinyl Chloride	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
o-Xylene	ND		ug/kg	2.7	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
mp-Xylene	ND		ug/kg	5.4	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	64.7		%	56 - 124	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
4-Bromofluorobenzene (S)	107		%	51 - 128	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Dibromofluoromethane (S)	67.9		%	62 - 123	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
Toluene-d8 (S)	79.1		%	59 - 131	SW846 8260B	5/22/15 JPA	5/26/15 06:02	JPA	A
<b>SEMIVOLATILES</b>									
Acenaphthene	2410		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Acenaphthylene	2060		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Acetophenone	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Anthracene	6720		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Atrazine	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Benzaldehyde	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Benzo(a)anthracene	15300		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Benzo(a)pyrene	13800		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Benzo(b)fluoranthene	18000		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Benzo(g,h,i)perylene	7320		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Benzo(k)fluoranthene	6680		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Biphenyl	227		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
4-Bromophenyl-phenylether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Butylbenzylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Caprolactam	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719002**

Date Collected: 5/22/2015 08:43

Matrix: Solid

Sample ID: **S-2**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Carbazole	2540		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
4-Chloro-3-methylphenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
4-Chloroaniline	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
bis(2-Chloroethoxy)methane	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
bis(2-Chloroethyl)ether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
bis(2-Chloroisopropyl)ether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2-Chloronaphthalene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2-Chlorophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
4-Chlorophenyl-phenylether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Chrysene	14700		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
mp-Cresol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
o-Cresol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Di-n-Butylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Di-n-Octylphthalate	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Dibenzo(a,h)anthracene	3470		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Dibenzofuran	1820		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
3,3-Dichlorobenzidine	ND		ug/kg	172	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,4-Dichlorophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Diethylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,4-Dimethylphenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Dimethylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,4-Dinitrophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,4-Dinitrotoluene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,6-Dinitrotoluene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
1,4-Dioxane	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
bis(2-Ethylhexyl)phthalate	357		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Fluoranthene	32800		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Fluorene	3700		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Hexachlorobenzene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Hexachlorobutadiene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Hexachlorocyclopentadiene	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Hexachloroethane	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Indeno(1,2,3-cd)pyrene	8040		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Isophorone	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2-Methyl-4,6-dinitrophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2-Methylnaphthalene	408		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Naphthalene	722		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2-Nitroaniline	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719002**

Date Collected: 5/22/2015 08:43

Matrix: Solid

Sample ID: **S-2**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
3-Nitroaniline	ND		ug/kg	414	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
4-Nitroaniline	ND		ug/kg	322	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Nitrobenzene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2-Nitrophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
4-Nitrophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
N-Nitroso-di-n-propylamine	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
N-Nitrosodiphenylamine	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Pentachlorophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Phenanthrene	23100		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Phenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Pyrene	27200		ug/kg	1150	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,3,4,6-Tetrachlorophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,4,5-Trichlorophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,4,6-Trichlorophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	73.8		%	37 - 123	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2,4,6-Tribromophenol (S)	47.4		%	37 - 123	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
2-Fluorobiphenyl (S)	69.6		%	45 - 105	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
2-Fluorobiphenyl (S)	45.2		%	45 - 105	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
2-Fluorophenol (S)	43.5		%	35 - 104	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
2-Fluorophenol (S)	66.7		%	35 - 104	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Nitrobenzene-d5 (S)	43.5		%	41 - 110	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Nitrobenzene-d5 (S)	66.8		%	41 - 110	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Phenol-d5 (S)	70.9		%	40 - 100	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
Phenol-d5 (S)	46.3		%	40 - 100	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Terphenyl-d14 (S)	49.6		%	38 - 113	SW846 8270D	5/28/15 EAG	5/28/15 23:35	CGS	D
Terphenyl-d14 (S)	69.7		%	38 - 113	SW846 8270D	5/28/15 EAG	5/28/15 19:02	CGS	D
<b>PCBs</b>									
Total Polychlorinated Biphenyl	0.13		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Aroclor-1016	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Aroclor-1221	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Aroclor-1232	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Aroclor-1242	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Aroclor-1248	0.040		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Aroclor-1254	0.060		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Aroclor-1260	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719002**

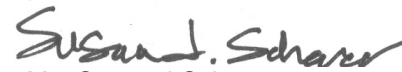
Date Collected: 5/22/2015 08:43

Matrix: Solid

Sample ID: **S-2**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	61.3		%	46 - 120	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
Tetrachloro-m-xylene (S)	56.7		%	52 - 115	SW846 8082A	5/27/15 KAC	5/28/15 09:44	EGO	D
<b>WET CHEMISTRY</b>									
Moisture	13.6		%	0.1	S2540G-11		5/26/15 04:10	JP	A
Total Solids	86.4		%	0.1	S2540G-11		5/26/15 04:10	JP	A
<b>METALS</b>									
Antimony, Total	1.5		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Arsenic, Total	88.5		mg/kg	1.6	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Beryllium, Total	ND		mg/kg	0.53	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Cadmium, Total	2.4		mg/kg	0.53	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Chromium, Total	29.3		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Copper, Total	27.2		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Lead, Total	410		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Mercury, Total	0.12		mg/kg	0.050	SW846 7471B	6/3/15 MNP	6/3/15 10:21	MNP	D2
Nickel, Total	27.4		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Selenium, Total	ND		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Silver, Total	ND		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Thallium, Total	ND		mg/kg	0.53	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1
Zinc, Total	442		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:34	ZMC	D1



Ms. Susan J Scherer

Project Coordinator

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719003**

Date Collected: 5/22/2015 09:14

Matrix: Solid

Sample ID: **S-3**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>									
Acetone	94.2		ug/kg	15.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Benzene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Bromochloromethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Bromodichloromethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Bromoform	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Bromomethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
2-Butanone	ND		ug/kg	15.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Carbon Disulfide	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Carbon Tetrachloride	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Chlorobenzene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Chlorodibromomethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Chloroethane	ND		ug/kg	7.5	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Chloroform	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Chloromethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Cyclohexane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.5	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,2-Dibromoethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,2-Dichlorobenzene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,3-Dichlorobenzene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,4-Dichlorobenzene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Dichlorodifluoromethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,1-Dichloroethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,2-Dichloroethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,1-Dichloroethene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
cis-1,2-Dichloroethene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,2-Dichloropropane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
cis-1,3-Dichloropropene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
trans-1,3-Dichloropropene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,4-Dioxane	ND		ug/kg	113	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Ethylbenzene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Freon 113	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
2-Hexanone	ND		ug/kg	15.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Isopropylbenzene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Methyl acetate	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Methyl cyclohexane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719003**

Date Collected: 5/22/2015 09:14

Matrix: Solid

Sample ID: **S-3**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	15.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Methylene Chloride	ND	1	ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Styrene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Tetrachloroethene	17.2		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Toluene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,2,3-Trichlorobenzene	ND		ug/kg	7.5	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,2,4-Trichlorobenzene	ND		ug/kg	7.5	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Trichloroethene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Trichlorofluoromethane	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Vinyl Chloride	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
o-Xylene	ND		ug/kg	3.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
mp-Xylene	ND		ug/kg	6.0	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	65.3		%	56 - 124	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
4-Bromofluorobenzene (S)	104		%	51 - 128	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Dibromofluoromethane (S)	68.3		%	62 - 123	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
Toluene-d8 (S)	80		%	59 - 131	SW846 8260B	5/22/15 JPA	5/26/15 06:25	JPA	A
<b>SEMIVOLATILES</b>									
Acenaphthene	3260		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Acenaphthylene	3070		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Acetophenone	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Anthracene	15700		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Atrazine	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Benzaldehyde	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Benzo(a)anthracene	37500		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Benzo(a)pyrene	30300		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Benzo(b)fluoranthene	41300		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Benzo(g,h,i)perylene	16200		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Benzo(k)fluoranthene	16600		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Biphenyl	295		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
4-Bromophenyl-phenylether	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Butylbenzylphthalate	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Caprolactam	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719003**

Date Collected: 5/22/2015 09:14

Matrix: Solid

Sample ID: **S-3**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Carbazole	7540		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
4-Chloro-3-methylphenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
4-Chloroaniline	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
bis(2-Chloroethoxy)methane	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
bis(2-Chloroethyl)ether	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
bis(2-Chloroisopropyl)ether	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Chloronaphthalene	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Chlorophenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
4-Chlorophenyl-phenylether	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Chrysene	35000		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
mp-Cresol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
o-Cresol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Di-n-Butylphthalate	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Di-n-Octylphthalate	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Dibenzo(a,h)anthracene	4990		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Dibenzofuran	3350		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
3,3-Dichlorobenzidine	ND		ug/kg	174	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,4-Dichlorophenol	ND		ug/kg	232	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Diethylphthalate	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,4-Dimethylphenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Dimethylphthalate	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,4-Dinitrophenol	ND		ug/kg	232	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,4-Dinitrotoluene	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,6-Dinitrotoluene	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
1,4-Dioxane	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
bis(2-Ethylhexyl)phthalate	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Fluoranthene	75400		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Fluorene	4700		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Hexachlorobenzene	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Hexachlorobutadiene	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Hexachlorocyclopentadiene	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Hexachloroethane	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Indeno(1,2,3-cd)pyrene	18200		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Isophorone	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Methyl-4,6-dinitrophenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Methylnaphthalene	1250		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Naphthalene	2280		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Nitroaniline	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D

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**United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York
**Mexico:** Monterrey

### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719003**

Date Collected: 5/22/2015 09:14

Matrix: Solid

Sample ID: **S-3**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
3-Nitroaniline	ND		ug/kg	418	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
4-Nitroaniline	ND		ug/kg	325	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Nitrobenzene	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Nitrophenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
4-Nitrophenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
N-Nitroso-di-n-propylamine	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
N-Nitrosodiphenylamine	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Pentachlorophenol	ND		ug/kg	232	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Phenanthrene	49800		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Phenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Pyrene	61900		ug/kg	1160	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	116	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,3,4,6-Tetrachlorophenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,4,5-Trichlorophenol	ND		ug/kg	314	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2,4,6-Trichlorophenol	ND		ug/kg	232	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	67.5		%	37 - 123	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
2,4,6-Tribromophenol (S)	68.4		%	37 - 123	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Fluorobiphenyl (S)	69		%	45 - 105	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
2-Fluorobiphenyl (S)	65.9		%	45 - 105	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Fluorophenol (S)	57.2		%	35 - 104	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
2-Fluorophenol (S)	59.7		%	35 - 104	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Nitrobenzene-d5 (S)	69.7		%	41 - 110	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Nitrobenzene-d5 (S)	65.6		%	41 - 110	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Phenol-d5 (S)	66.1		%	40 - 100	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Phenol-d5 (S)	62.4		%	40 - 100	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
Terphenyl-d14 (S)	71.4		%	38 - 113	SW846 8270D	5/28/15 EAG	5/29/15 00:00	CGS	D
Terphenyl-d14 (S)	67.6		%	38 - 113	SW846 8270D	5/28/15 EAG	5/28/15 19:27	CGS	D
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Aroclor-1016	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Aroclor-1221	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Aroclor-1232	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Aroclor-1242	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Aroclor-1248	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Aroclor-1254	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Aroclor-1260	ND		mg/kg	0.038	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719003**

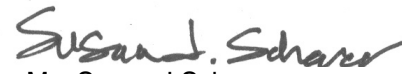
Date Collected: 5/22/2015 09:14

Matrix: Solid

Sample ID: **S-3**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	60.2		%	46 - 120	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
Tetrachloro-m-xylene (S)	49.2	2	%	52 - 115	SW846 8082A	5/27/15 KAC	5/28/15 09:56	EGO	D
<b>WET CHEMISTRY</b>									
Moisture	14.4		%	0.1	S2540G-11		5/26/15 04:10	JP	A
Total Solids	85.6		%	0.1	S2540G-11		5/26/15 04:10	JP	A
<b>METALS</b>									
Antimony, Total	2.5		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Arsenic, Total	18.8		mg/kg	1.7	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Beryllium, Total	ND		mg/kg	0.57	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Cadmium, Total	2.1		mg/kg	0.57	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Chromium, Total	19.6		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Copper, Total	68.7		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Lead, Total	387		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Mercury, Total	0.30		mg/kg	0.058	SW846 7471B	6/3/15 MNP	6/3/15 10:26	MNP	D2
Nickel, Total	18.2		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Selenium, Total	ND		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Silver, Total	ND		mg/kg	1.1	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Thallium, Total	ND		mg/kg	0.57	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1
Zinc, Total	1330		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:37	ZMC	D1



Ms. Susan J Scherer

Project Coordinator

#### ALS Environmental Laboratory Locations Across North America

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719004**

Date Collected: 5/22/2015 10:57

Matrix: Solid

Sample ID: **S-4**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>									
Acetone	57.6		ug/kg	11.8	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Benzene	2.6		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Bromochloromethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Bromodichloromethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Bromoform	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Bromomethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
2-Butanone	ND		ug/kg	11.8	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Carbon Disulfide	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Chlorobenzene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Chlorodibromomethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Chloroethane	ND		ug/kg	5.9	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Chloroform	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Chloromethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Cyclohexane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,2-Dibromoethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,2-Dichlorobenzene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,3-Dichlorobenzene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,4-Dichlorobenzene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Dichlorodifluoromethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
cis-1,2-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
cis-1,3-Dichloropropene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
trans-1,3-Dichloropropene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,4-Dioxane	ND		ug/kg	88.8	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Ethylbenzene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Freon 113	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
2-Hexanone	ND		ug/kg	11.8	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Isopropylbenzene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Methyl acetate	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Methyl cyclohexane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A

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**United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York   
**Mexico:** Monterrey

### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719004**

Date Collected: 5/22/2015 10:57

Matrix: Solid

Sample ID: **S-4**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	11.8	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Methylene Chloride	ND	1	ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Styrene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Tetrachloroethene	9.5		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Toluene	3.0		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Trichloroethene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Trichlorofluoromethane	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Vinyl Chloride	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
o-Xylene	ND		ug/kg	2.4	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
mp-Xylene	ND		ug/kg	4.7	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	64.3		%	56 - 124	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
4-Bromofluorobenzene (S)	103		%	51 - 128	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Dibromofluoromethane (S)	66.8		%	62 - 123	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
Toluene-d8 (S)	78.6		%	59 - 131	SW846 8260B	5/22/15 JPA	5/26/15 06:48	JPA	A
<b>SEMIVOLATILES</b>									
Acenaphthene	350		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Acenaphthylene	502		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Acetophenone	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Anthracene	1160		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Atrazine	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Benzaldehyde	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Benzo(a)anthracene	3440		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Benzo(a)pyrene	3550		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Benzo(b)fluoranthene	4540		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Benzo(g,h,i)perylene	2260		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Benzo(k)fluoranthene	1810		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Biphenyl	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
4-Bromophenyl-phenylether	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Butylbenzylphthalate	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Caprolactam	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719004**

Date Collected: 5/22/2015 10:57

Matrix: Solid

Sample ID: **S-4**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Carbazole	840		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
4-Chloro-3-methylphenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
4-Chloroaniline	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
bis(2-Chloroethoxy)methane	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
bis(2-Chloroethyl)ether	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
bis(2-Chloroisopropyl)ether	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Chloronaphthalene	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Chlorophenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
4-Chlorophenyl-phenylether	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Chrysene	3400		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
mp-Cresol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
o-Cresol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Di-n-Butylphthalate	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Di-n-Octylphthalate	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Dibenzo(a,h)anthracene	632		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Dibenzofuran	280		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
3,3-Dichlorobenzidine	ND		ug/kg	164	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,4-Dichlorophenol	ND		ug/kg	218	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Diethylphthalate	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,4-Dimethylphenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Dimethylphthalate	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,4-Dinitrophenol	ND		ug/kg	218	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,4-Dinitrotoluene	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,6-Dinitrotoluene	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
1,4-Dioxane	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
bis(2-Ethylhexyl)phthalate	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Fluoranthene	6680		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Fluorene	423		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Hexachlorobenzene	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Hexachlorobutadiene	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Hexachlorocyclopentadiene	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Hexachloroethane	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Indeno(1,2,3-cd)pyrene	2400		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Isophorone	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Methyl-4,6-dinitrophenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Methylnaphthalene	114		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Naphthalene	314		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Nitroaniline	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D

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**United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York
**Mexico:** Monterrey

### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719004**

Date Collected: 5/22/2015 10:57

Matrix: Solid

Sample ID: **S-4**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
3-Nitroaniline	ND		ug/kg	393	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
4-Nitroaniline	ND		ug/kg	306	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Nitrobenzene	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Nitrophenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
4-Nitrophenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
N-Nitroso-di-n-propylamine	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
N-Nitrosodiphenylamine	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Pentachlorophenol	ND		ug/kg	218	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Phenanthrene	4360		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Phenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Pyrene	5680		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	109	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,3,4,6-Tetrachlorophenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,4,5-Trichlorophenol	ND		ug/kg	295	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2,4,6-Trichlorophenol	ND		ug/kg	218	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	74.1		%	37 - 123	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Fluorobiphenyl (S)	67.7		%	45 - 105	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
2-Fluorophenol (S)	66.6		%	35 - 104	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Nitrobenzene-d5 (S)	65		%	41 - 110	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Phenol-d5 (S)	68.8		%	40 - 100	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
Terphenyl-d14 (S)	69.2		%	38 - 113	SW846 8270D	5/28/15 EAG	5/28/15 19:52	CGS	D
<b>SEMIVOLATILE SIM</b>									
Acenaphthene	280	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Acenaphthylene	314	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Anthracene	954	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Benzo(a)anthracene	2590	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Benzo(a)pyrene	2200	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Benzo(b)fluoranthene	3370	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Benzo(g,h,i)perylene	729	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Benzo(k)fluoranthene	1020	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Chrysene	2460	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Dibenzo(a,h)anthracene	255	E	ug/kg	2.5	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Fluoranthene	2920	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Fluorene	364	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Indeno(1,2,3-cd)pyrene	958	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Naphthalene	257	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719004**

Date Collected: 5/22/2015 10:57

Matrix: Solid

Sample ID: **S-4**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	2420	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Pyrene	2760	E	ug/kg	3.6	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	62.1		%	50 - 150	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
Fluoranthene-d10 (S)	68.3		%	50 - 150	8270 SIM	5/28/15 EAG	5/29/15 08:29	CGS	D
<b>PCBs</b>									
Total Polychlorinated Biphenyl	0.071		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Aroclor-1016	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Aroclor-1221	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Aroclor-1232	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Aroclor-1242	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Aroclor-1248	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Aroclor-1254	ND		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Aroclor-1260	0.040		mg/kg	0.036	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	65.6		%	46 - 120	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
Tetrachloro-m-xylene (S)	58.1		%	52 - 115	SW846 8082A	5/27/15 KAC	5/28/15 10:07	EGO	D
<b>WET CHEMISTRY</b>									
Moisture	12.5		%	0.1	S2540G-11		5/26/15 04:10	JP	A
Total Solids	87.5		%	0.1	S2540G-11		5/26/15 04:10	JP	A
<b>METALS</b>									
Antimony, Total	5.3		mg/kg	1.0	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Arsenic, Total	4.7		mg/kg	1.6	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Beryllium, Total	ND		mg/kg	0.52	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Cadmium, Total	2.3		mg/kg	0.52	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Chromium, Total	15.3		mg/kg	1.0	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Copper, Total	67.7		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Lead, Total	513		mg/kg	1.0	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Mercury, Total	0.25		mg/kg	0.053	SW846 7471B	6/3/15 MNP	6/3/15 10:27	MNP	D2
Nickel, Total	9.8		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Selenium, Total	ND		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Silver, Total	ND		mg/kg	1.0	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Thallium, Total	ND		mg/kg	0.52	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1
Zinc, Total	519		mg/kg	2.6	SW846 6020A	5/24/15 AAM	5/26/15 04:41	ZMC	D1

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**ANALYTICAL RESULTS**

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719004** Date Collected: 5/22/2015 10:57 Matrix: Solid  
 Sample ID: **S-4** Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
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Ms. Susan J Scherer  
 Project Coordinator

**ALS Environmental Laboratory Locations Across North America**

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719005**

Date Collected: 5/22/2015 11:33

Matrix: Solid

Sample ID: **S-5**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>									
Acetone	22.4		ug/kg	12.9	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Benzene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Bromochloromethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Bromodichloromethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Bromoform	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Bromomethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
2-Butanone	ND		ug/kg	12.9	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Carbon Disulfide	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Carbon Tetrachloride	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Chlorobenzene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Chlorodibromomethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Chloroethane	ND		ug/kg	6.5	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Chloroform	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Chloromethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Cyclohexane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.5	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,2-Dibromoethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,2-Dichlorobenzene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,3-Dichlorobenzene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,4-Dichlorobenzene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Dichlorodifluoromethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,1-Dichloroethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,2-Dichloroethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,1-Dichloroethene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
cis-1,2-Dichloroethene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
cis-1,3-Dichloropropene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
trans-1,3-Dichloropropene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,4-Dioxane	ND		ug/kg	96.9	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Ethylbenzene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Freon 113	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
2-Hexanone	ND		ug/kg	12.9	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Isopropylbenzene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Methyl acetate	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Methyl cyclohexane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A

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**ANALYTICAL RESULTS**

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719005**

Date Collected: 5/22/2015 11:33

Matrix: Solid

Sample ID: **S-5**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Methyl t-Butyl Ether	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	12.9	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Methylene Chloride	ND	1	ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Styrene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Tetrachloroethene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Toluene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,2,3-Trichlorobenzene	ND		ug/kg	6.5	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,2,4-Trichlorobenzene	ND		ug/kg	6.5	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,1,1-Trichloroethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Trichloroethene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Trichlorofluoromethane	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Vinyl Chloride	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
o-Xylene	ND		ug/kg	2.6	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
mp-Xylene	ND		ug/kg	5.2	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	64.8		%	56 - 124	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
4-Bromofluorobenzene (S)	102		%	51 - 128	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Dibromofluoromethane (S)	68.7		%	62 - 123	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
Toluene-d8 (S)	77.4		%	59 - 131	SW846 8260B	5/22/15 JPA	5/26/15 07:12	JPA	A
<b>SEMIVOLATILES</b>									
Acenaphthene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Acenaphthylene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Acetophenone	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Anthracene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Atrazine	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Benzaldehyde	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Benzo(a)anthracene	389		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Benzo(a)pyrene	383		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Benzo(b)fluoranthene	450		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Benzo(g,h,i)perylene	236		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Benzo(k)fluoranthene	206		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Biphenyl	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
4-Bromophenyl-phenylether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Butylbenzylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Caprolactam	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719005**

Date Collected: 5/22/2015 11:33

Matrix: Solid

Sample ID: **S-5**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Carbazole	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
4-Chloro-3-methylphenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
4-Chloroaniline	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
bis(2-Chloroethoxy)methane	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
bis(2-Chloroethyl)ether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
bis(2-Chloroisopropyl)ether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Chloronaphthalene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Chlorophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
4-Chlorophenyl-phenylether	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Chrysene	372		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
mp-Cresol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
o-Cresol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Di-n-Butylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Di-n-Octylphthalate	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Dibenzo(a,h)anthracene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Dibenzofuran	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
3,3-Dichlorobenzidine	ND		ug/kg	172	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,4-Dichlorophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Diethylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,4-Dimethylphenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Dimethylphthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,4-Dinitrophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,4-Dinitrotoluene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,6-Dinitrotoluene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
1,4-Dioxane	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
bis(2-Ethylhexyl)phthalate	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Fluoranthene	767		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Fluorene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Hexachlorobenzene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Hexachlorobutadiene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Hexachlorocyclopentadiene	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Hexachloroethane	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Indeno(1,2,3-cd)pyrene	249		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Isophorone	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Methyl-4,6-dinitrophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Methylnaphthalene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Naphthalene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Nitroaniline	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719005**

Date Collected: 5/22/2015 11:33

Matrix: Solid

Sample ID: **S-5**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
3-Nitroaniline	ND		ug/kg	413	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
4-Nitroaniline	ND		ug/kg	321	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Nitrobenzene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Nitrophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
4-Nitrophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
N-Nitroso-di-n-propylamine	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
N-Nitrosodiphenylamine	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Pentachlorophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Phenanthrene	332		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Phenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Pyrene	703		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	115	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,3,4,6-Tetrachlorophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,4,5-Trichlorophenol	ND		ug/kg	310	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2,4,6-Trichlorophenol	ND		ug/kg	230	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	59.1		%	37 - 123	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Fluorobiphenyl (S)	64.9		%	45 - 105	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
2-Fluorophenol (S)	58.2		%	35 - 104	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Nitrobenzene-d5 (S)	69.7		%	41 - 110	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Phenol-d5 (S)	65.2		%	40 - 100	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
Terphenyl-d14 (S)	65.9		%	38 - 113	SW846 8270D	5/28/15 EAG	5/28/15 16:58	CGS	D
<b>SEMIVOLATILE SIM</b>									
Acenaphthene	19.5		ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Acenaphthylene	14.5		ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Anthracene	100		ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Benzo(a)anthracene	341	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Benzo(a)pyrene	302	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Benzo(b)fluoranthene	303	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Benzo(g,h,i)perylene	104		ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Benzo(k)fluoranthene	267	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Chrysene	308	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Dibenzo(a,h)anthracene	32.7		ug/kg	2.6	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Fluoranthene	641	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Fluorene	23.8		ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Indeno(1,2,3-cd)pyrene	134		ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Naphthalene	7.2		ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719005**

Date Collected: 5/22/2015 11:33

Matrix: Solid

Sample ID: **S-5**

Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Phenanthrene	280	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Pyrene	550	E	ug/kg	3.8	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Methylnaphthalene-d10 (S)	62.6		%	50 - 150	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
Fluoranthene-d10 (S)	64.4		%	50 - 150	8270 SIM	5/28/15 EAG	5/29/15 08:54	CGS	D
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Aroclor-1016	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Aroclor-1221	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Aroclor-1232	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Aroclor-1242	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Aroclor-1248	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Aroclor-1254	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Aroclor-1260	ND		mg/kg	0.039	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	58.2		%	46 - 120	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
Tetrachloro-m-xylene (S)	58		%	52 - 115	SW846 8082A	5/27/15 KAC	5/28/15 10:19	EGO	D
<b>WET CHEMISTRY</b>									
Moisture	15.2		%	0.1	S2540G-11		5/26/15 04:10	JP	A
Total Solids	84.8		%	0.1	S2540G-11		5/26/15 04:10	JP	A
<b>METALS</b>									
Antimony, Total	ND		mg/kg	1.2	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Arsenic, Total	3.5		mg/kg	1.8	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Beryllium, Total	1.1		mg/kg	0.59	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Cadmium, Total	ND		mg/kg	0.59	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Chromium, Total	46.9		mg/kg	1.2	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Copper, Total	49.5		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Lead, Total	49.0		mg/kg	1.2	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Mercury, Total	ND		mg/kg	0.058	SW846 7471B	6/4/15 MNP	6/4/15 14:42	MNP	D2
Nickel, Total	20.6		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Selenium, Total	ND		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Silver, Total	ND		mg/kg	1.2	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Thallium, Total	ND		mg/kg	0.59	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1
Zinc, Total	113		mg/kg	2.9	SW846 6020A	5/24/15 AAM	5/26/15 04:45	ZMC	D1

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### ANALYTICAL RESULTS

Workorder: 2072719 2015-NORTH 10th STREET, PHILA

Lab ID: **2072719005** Date Collected: 5/22/2015 11:33 Matrix: Solid  
 Sample ID: **S-5** Date Received: 5/22/2015 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
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Ms. Susan J Scherer  
 Project Coordinator

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**PARAMETER QUALIFIERS**

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>2072719001</b>	1	S-1	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2072719002</b>	1	S-2	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2072719003</b>	1	S-3	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2072719003</b>	2	S-3	SW846 8082A	Tetrachloro-m-xylene
The surrogate Tetrachloro-m-xylene for method SW846 8082A was outside of control limits. The % Recovery was reported as 49.2 and the control limits were 52 to 115. This result was reported at a dilution of 1.				
<b>2072719004</b>	1	S-4	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2072719004</b>	E	S-4	8270 SIM	Benzo(g,h,i)perylene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Pyrene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Acenaphthene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Fluoranthene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Phenanthrene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Fluorene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Acenaphthylene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Benzo(k)fluoranthene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Chrysene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Benzo(b)fluoranthene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Anthracene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Indeno(1,2,3-cd)pyrene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Dibenzo(a,h)anthracene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Naphthalene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Benzo(a)pyrene
Result reported exceeds instrument calibration				
<b>2072719004</b>	E	S-4	8270 SIM	Benzo(a)anthracene
Result reported exceeds instrument calibration				

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### ANALYTICAL RESULTS

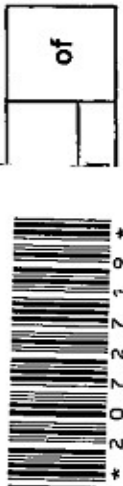
Workorder: 2072719 2015-NORTH 10th STREET, PHILA

<b>2072719005</b>	1	S-5	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2072719005</b>	E	S-5	8270 SIM	Phenanthrene
Result reported exceeds instrument calibration				
<b>2072719005</b>	E	S-5	8270 SIM	Benzo(b)fluoranthene
Result reported exceeds instrument calibration				
<b>2072719005</b>	E	S-5	8270 SIM	Fluoranthene
Result reported exceeds instrument calibration				
<b>2072719005</b>	E	S-5	8270 SIM	Chrysene
Result reported exceeds instrument calibration				
<b>2072719005</b>	E	S-5	8270 SIM	Benzo(k)fluoranthene
Result reported exceeds instrument calibration				
<b>2072719005</b>	E	S-5	8270 SIM	Benzo(a)pyrene
Result reported exceeds instrument calibration				
<b>2072719005</b>	E	S-5	8270 SIM	Pyrene
Result reported exceeds instrument calibration				
<b>2072719005</b>	E	S-5	8270 SIM	Benzo(a)anthracene
Result reported exceeds instrument calibration				

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**CHAIN OF CUSTODY/  
 REQUEST FOR ANALYSIS**  
**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
 SAMPLER. INSTRUCTIONS ON THE BACK.**



Client Name: Earth Engineering, Inc. (EEI)  
 Address: 115 W. Germantown Pike  
 E. Norriton, PA 19401  
 Contact: Dave Van Keuren  
 Phone#: 610-277-0880  
 Project Name#: N. 10th Street  
 Bill To: EEI

TAT  Normal-Standard TAT is 10-12 business days.  
 Rush-Subject to ALS approval and surcharges.  
 Date Required: Approved By:  
 Email?  Y  N davev@earthengineering.com  
 Fax?  Y  N No.:

Sample	Date	Time	Matrix	CG	CG	CG	CG	CG	CG	ANALYSES/METHOD REQUESTED	Enter Number of Containers Per Sample or Field Results Below.
S-1	5/22/2015	805	G SO	2	1	2	TCL VOC	40ml	4 oz	TCL SVOC/PCB & PP METALS	
S-2	5/22/2015	843	G SO	2	1	2	TCL VOC	40ml	4 oz		
S-3	5/22/2015	914	G SO	2	1	2	TCL VOC	40ml	4 oz		
S-4	5/22/2015	1057	G SO	2	1	2	TCL VOC	40ml	4 oz		
S-5	5/22/2015	1133	G SO	2	1	2	TCL VOC	40ml	4 oz		
6											
7											
8											
9											
10											

Project Comments: *5/22/15 1030*

Relinquished By/ Company Name: *[Signature]* Date: *5/22/15* Time: *1645* Received By/ Company Name: *[Signature]* Date: *5/22/15* Time: *1645*

LOGGED BY (signature): *[Signature]* Date: *5/22/15* Time: *1645*

REVIEWED BY (signature): *[Signature]* Date: *5/22/15* Time: *1645*

ALS Field Services:  Pickup  Labor  Composite Sampling  Rental Equipment  Other: \_\_\_\_\_

Deliverables:  Standard  CLP-like  USACE

Special Processing:  USACE  Navy  State Samples Collected In:  NY  NJ  PA  NC  S

Reportable to PADEP?  Yes  No PWSID #: \_\_\_\_\_

EDDS: Format Type: \_\_\_\_\_

