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Phase II Environmental Site Assessment

***Parcels Located Between 38th and Brown Street
Philadelphia, PA 19104***

Prepared for:

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1.0 INTRODUCTION

This report presents the findings of the Phase II Environmental Site Assessment (ESA) performed by Battat Environmental Associates (BATTA) on behalf of Women's Community Revitalization Project for the property located at 38th and Brown Street in Philadelphia, Pennsylvania.

BATTA performed the Phase II ESA in accordance with the guidance and regulations issued by the Pennsylvania Department of Environmental Protection (PADEP) for conducting investigations under Pennsylvania's Land Recycling Program (Act 2) Groundwater and Soil Technical Guidance Manual.

1.1 Investigation Objectives

This Phase II ESA report was prepared based on the investigative activities conducted at the Site on December 19, 2022. The purpose of this Phase II ESA was to:

- Assess potential soil and groundwater impacts, if encountered, from a historical dry-cleaning facility as identified by the VEC Application and EDR Radius Map as being upgradient from the Site.
- Assess potential soil and groundwater impacts, if encountered, from an unregistered leaking tank identified by the VEC Application and EDR Radius Map as being upgradient from the Site.

1.2 Site Description

The site is located at 38th and Brown Street in Philadelphia, Pennsylvania with an elevation of approximately 83 feet above mean sea level. The site is an open, grassy field surrounded by a wooden fence and concrete sidewalks. The site location is depicted on **Figure 1**. A site plan is included as **Figure 2**.

2.0 PRESAMPLING ACTIVITIES

All the proposed tasks were performed under the direction of BATTA and adhered to the PADEP Act 2 Technical Guidance Manual. Pennsylvania (PA) One Call were obtained prior to conducting any work.

2.1 Site Specific Health & Safety Plan

A Site-Specific Health and Safety Plan (HASP) was prepared in accordance with Occupation Safety and Health Administration (OSHA) 1910.120. The HASP addressed potential chemical, physical, and biological hazards associated with the Site and exposure precautions as well as general safety procedures for safe working conditions. In addition, a COVID-19 HASP was implemented. A daily meeting was conducted with BATTA personnel, and the drilling subcontractor SET Geophysics and Drilling Services (SET) prior to performing the investigation objectives outlined in **Section 1.1**.

2.2 Geophysical Survey

Prior to any drilling activities, a geophysical survey using Fisher TW6 electromagnetic metal detection (TW6 EM), radio frequency line locating (RF), and ground penetrating radar (GPR) was performed to investigate for underground utilities and other anomalies. A buried unknown line was detected within the investigation. The geophysical report is included in **Appendix A**.

In addition to clearing the area for underground utilities, a geophysical survey was conducted find the location of a potential UST as identified by the VEC and EDR Radius Map in the Phase I ESA. The

geophysical survey identified three (3) buried metallic anomalies. These anomalies are depicted on a figure in the geophysical report which is included in **Appendix A**. GPR data collected over the three (3) anomalies did not show GPR profiles characteristic of a UST (strong hyperbolic signatures along an apparent short axis and strong, flat reflections along an apparent long axis). However, strong metallic responses were present at each anomaly, and it is possible that any of these anomalies may be due to a UST or a UST carcass that has been crushed, broken apart, deformed, corroded, or misshapen, and is indistinguishable from buried metallic debris.

3.0 SUBSURFACE INVESTIGATION

3.1 Soil Boring Investigation

To evaluate the subsurface, soil borings were drilled using a track-mounted Geoprobe® 7728DT drill rig hydraulically pushing a 2 ¼ inch diameter, 4-foot-long macro-core sampler lined with an acetate sleeve to approximately 15 feet below ground surface (ft bgs) as directed by BATTA. A total of eight (8) soil borings were drilled at the Site as depicted on **Figure 3**. Two (2) soil sample were collected at each boring location. One (1) sample was collected from a depth of 0 to 2 ft bgs and one (1) sample was collected from a depth of 2 to 15 ft bgs. Soils from each boring were visually examined and screened onsite with a photoionization detector (PID). Soil samples were biased towards visibly stained soil and/or detections from the PID, if any. If there were no visibly stained soils or PID detections, samples were collected at the 2–15-foot interval for representation of the site soil quality. A boring log for each location was created to document the subsurface observations. Soil boring logs are provided in **Appendix B**. A photo log of the boring locations are included in **Appendix C**.

All soil samples were delivered to Alpha Analytical of Mansfield, Massachusetts, a PADEP certified laboratory. All samples were analyzed for volatile organic compounds (VOCs) via US Environmental Protection Agency (EPA) Method 8260D, semi-volatile organic compounds (SVOCs) via USEPA Method 8270D, polychlorinated biphenyls (PCBs) via USEPA Method 8082A, and pesticides via USEPA Method 8081B.

3.2 Soil Sample Results

Analytical results were screened against the Pennsylvania Residential Direct Contact (PA RDCS) screening values, Pennsylvania Used Aquifers Residential Generic Soil to Groundwater (PA RSGG), Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater screening values (PA RSGX), and Pennsylvania Residential Soil Statewide Vapor Intrusion (PA VI-S) screening values. VOC constituents detected in the samples include acetone; chloroform; ethylbenzene; methyl acetate; methyl cyclohexane; methylene chloride and xylenes. One or more of these constituents were detected in nine (9) samples at concentrations below their respective screening values.

SVOC constituents detected in the samples include 2-methylnaphthalene; 2-methylphenol; 3-methylphenol/4-methylphenol; acenaphthylene; anthracene; naphthalene; benzaldehyde; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(ghi)perylene; benzo(k)fluoranthene; biphenyl; carbazole; chrysene; dibenzo(a,h)anthracene; dibenzofuran; fluoranthene; fluorene; indeno(1,2,3-cd)pyrene; phenanthrene; phenol; and pyrene. One or more SVOC constituents were detected in fifteen (15) samples. The following constitutions were detected in one (1) or more soil samples exceeding their respective MSCs: benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(ghi)perylene; benzo(k)fluoranthene; biphenyl; chrysene, and indeno(1,2,3-cd)pyrene. Biphenyl was

detected in one (1) sample, SB2 (0-2), at a concentration exceeding the PA RSGG screening level. Benzo(a)anthracene and benzo(b)fluoranthene was detected in two (2) soil samples at a concentration exceeding the PA RSGG and PA RDGS screening values. Benzo(a)pyrene was detected in one (1) sample, SB2 (0-2), at a concentration exceeding the PA RSGG and PA RDGS screening values. Four (4) soil samples exceeded one or more constituents, except biphenyl, at concentrations exceeding their respective PA RDGS screening values.

One or more pesticides and PCBs were detected in the soil samples at concentrations below their respective screening standards. All metals, except silver, were detected in the soil samples. Arsenic was detected in two (2) soil samples at a concentration exceeding their respective PA RDGS screening values. One (1) sample, SB2 (2-15), contained thallium concentrations exceeding its respective PA RDGS screening values. Vanadium was detected in fourteen (14) soil samples at concentrations exceeding its respective PA RDGS. Vanadium is discussed below in **Section 4.0**.

To evaluate a potential vapor intrusion pathway, BATTA screened the soil results against the Pennsylvania Vapor Intrusion Screening Values (PA-VI-S-R). All detection were below the screening values. The constituents detected in the soil do not represent a concern for vapor intrusion.

Figure 4 depicts the soil samples analytical exceedances. **Table 1** summarizes the soil sample analytical results. Laboratory analytical packages are included in **Appendix D**.

4.0 VANADIUM

Vanadium is the fifth most abundant transition metal in the earth's crust. The average vanadium concentration in the earth's crust is approximately 130 milligram per kilogram (mg/kg), making vanadium commonly present in material being managed as fill. Unfortunately, PADEP recently lowered vanadium's Statewide Health Standards (SHS) in soils to 15 mg/kg. This concentration is 2 to 6 times less than typical background concentrations. This same standard also carries over to Pennsylvania's Management of Fill Policy, resulting in virtually any soil being unusable as clean fill if it is analyzed for vanadium. However, PADEP's Bureau of Waste Management issued a guidance dated February 26, 2022, for managing fill material with vanadium background conditions not affected by a release involving vanadium.

Upper limits, such as a 95% upper tolerance limit with 95% coverage (UTL95-95), are used to estimate upper threshold values. The UTL95-95 represents a 95% upper confidence limit for the 95th percentile. When applied to a background data set, the upper threshold value is referred to as a background threshold value (BTV). It is expected that observations coming from the background population will lie below that BTV estimate with a specified confidence coefficient (CC). BTVs should be estimated based upon an "established" data set representing the background population under consideration.

A data set from a study of surface soil completed by the United States Geological Survey (USGS) titled "Geochemical and Mineralogical Data for Soils of the Conterminous United States" had been utilized by PADEP as an input into the USEPA's ProUCL5.1 in order to establish Representative Background Concentrations (RBCs) on a statewide basis for naturally occurring vanadium in surface soils in Pennsylvania. The RBC for each state was established by selecting the BTV that was determined by applying the statistical methodology providing the best fit.

The United States Geological Survey (USGS) conducted a soil survey which included 76 sampling locations across Pennsylvania. Three (3) soil samples were collected from each location, one from the ground surface (to 5 cm) and one each from the tops of the first two soil horizons. All the soil samples were

collected within the first meter of the soil column. Vanadium was detected in each of the 227 soil samples that were collected. The concentrations of vanadium that were detected ranged between 12 mg/kg and 162 mg/kg, with a mean concentration of 66 mg/kg. At the 5% significance level, the data appeared to follow a gamma distribution. Assuming gamma-distribution, analysis using ProUCL indicates a BTV of 128.8 mg/kg.

For fill not otherwise affected by a release of vanadium, the applicable RBC of 129 mg/kg for vanadium may be utilized in lieu of performing a site-specific vanadium Background Demonstration for fill originating in Pennsylvania. Likewise, the RBC applicable to soil in Pennsylvania may be utilized in lieu of performing a site-specific Equivalent Site Evaluation. This guidance document is included in **Appendix E**.

Based on the RBC established by PADEP for fill in Pennsylvania, the vanadium concentrations detected in the soil samples are below the newly established RBCs.

5.0 RECOMMENDATIONS/CONCLUSION

Analytical results of the soil samples collected from each soil boring indicate most analyzed compounds were not detected. Select constituents that were detected were at concentrations above their respective PADEP NRDSCs and soil to groundwater screening value for SVOCs, vanadium and arsenic. However, the guidance dated February 26, 2022, issued by PADEP created a background threshold value for vanadium for sites with high concentrations level that are not related to a release of vanadium.

To evaluate a potential vapor intrusion pathway, BATTA screened the soil results against the Statewide Health Standard for Vapor Intrusion Screening Values (PA-VI-S-R). All detection were below the screening values. The constituents detected in the soil do not represent a concern for vapor intrusion.

GPR data collected over the three (3) anomalies did not show GPR profiles characteristic of a UST (strong hyperbolic signatures along an apparent short axis and strong, flat reflections along an apparent long axis). However, strong metallic responses were present at each anomaly, and it is possible that any of these anomalies may be due to a UST or a UST carcass that has been crushed, broken apart, deformed, corroded, or misshapen, and is indistinguishable from buried metallic debris.

Based on the results from the geophysical survey, BATTA is recommending exploratory test pits in the areas of the (3) anomalies.

Based on the results of the soil to groundwater analytical data, BATTA is recommending additional soil samples for Synthetic Precipitation Leaching Procedure (SPLP) testing. This data from this testing will be used as an alternative to the published soil to groundwater standards (equivalency demonstration). The equivalency demonstration [described in Section 250.308(d) of the regulations] is met, the soil-to-groundwater numeric value will be deemed to be satisfied, and the soil MSC will be the direct contact numeric value. The additional soil sampling will be collected in tangent with the test pits. If the equivalency demonstration met, this would eliminate the need to conduct a groundwater investigation.

Tables

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB1 (0-2)				SB1 (2-15)				SB2 (0-2)					
	LAB ID:				L2271474-01				L2271474-02				L2271474-03					
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022					
	SAMPLE MATRIX:				SOIL				SOIL				SOIL					
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)														
VOLATILE ORGANICS BY EPA 5035																		
Dichlorodifluoromethane	1900	100	100	100	ND	0.016	0.0015	ND	0.022	0.002	ND	0.015	0.0014					
Chloromethane	250		3	0.38	ND	0.0065	0.0015	ND	0.0088	0.0021	ND	0.0061	0.0014					
Vinyl chloride	0.93		0.2	0.027	ND	0.0016	0.00054	ND	0.0022	0.00074	ND	0.0015	0.00051					
Bromomethane	95		1	0.54	ND	0.0032	0.00094	ND	0.0044	0.0013	ND	0.0031	0.00089					
Chloroethane	10000		2100	450	ND	0.0032	0.00073	ND	0.0044	0.001	ND	0.0031	0.00069					
Trichlorofluoromethane	10000		200	87	ND	0.0065	0.0011	ND	0.0088	0.0015	ND	0.0061	0.0011					
1,1-Dichloroethene	3800		0.7	0.19	ND	0.0016	0.00038	ND	0.0022	0.00053	ND	0.0015	0.00036					
Carbon disulfide	10000		150	130	ND	0.016	0.0074	ND	0.022	0.01	ND	0.015	0.007					
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	3400		3400	ND	0.0065	0.0011	ND	0.0088	0.0015	ND	0.0061	0.0011					
Methylene chloride	1300		0.5	0.076	ND	0.0081	0.0037	ND	0.011	0.0051	ND	0.0076	0.0035					
Acetone	10000		3100	350	ND	0.04	0.016	ND	0.055	0.022	ND	0.038	0.015					
trans-1,2-Dichloroethene	4400		10	2.3	ND	0.0024	0.00022	ND	0.0033	0.0003	ND	0.0023	0.00021					
Methyl Acetate	10000		3500		ND	0.0065	0.0015	ND	0.0088	0.0021	ND	0.0061	0.0014					
Methyl tert butyl ether	1700		2	0.28	ND	0.0032	0.00032	ND	0.0044	0.00044	ND	0.0031	0.00031					
1,1-Dichloroethane	280		3.1	0.75	ND	0.0016	0.00023	ND	0.0022	0.00032	ND	0.0015	0.00022					
cis-1,2-Dichloroethene	440		7		ND	0.0016	0.00028	ND	0.0022	0.00039	ND	0.0015	0.00027					
1,2-Dichloroethene, Total					ND	0.0016	0.00022	ND	0.0022	0.0003	ND	0.0015	0.00021					
Cyclohexane	10000	1700		1700	ND	0.016	0.00088	ND	0.022	0.0012	ND	0.015	0.00083					
Bromochloromethane	760		9	1.6	ND	0.0032	0.00033	ND	0.0044	0.00045	ND	0.0031	0.00031					
Chloroform	19		8	2	ND	0.0024	0.00023	ND	0.0033	0.00031	ND	0.0023	0.00021					
Carbon tetrachloride	75		0.5	0.26	ND	0.0016	0.00037	ND	0.0022	0.00051	ND	0.0015	0.00035					
1,1,1-Trichloroethane	10000		20	7.2	ND	0.00081	0.00027	ND	0.0011	0.00037	ND	0.00076	0.00026					
2-Butanone	10000		400	76	ND	0.016	0.0036	ND	0.022	0.0049	ND	0.015	0.0034					
Benzene	57		0.5	0.13	ND	0.00081	0.00027	ND	0.0011	0.00037	ND	0.00076	0.00025					
1,2-Dichloroethane	17		0.5	0.1	ND	0.0016	0.00042	ND	0.0022	0.00057	ND	0.0015	0.00039					
Methyl cyclohexane					ND	0.0065	0.00097	ND	0.0088	0.0013	ND	0.0061	0.00092					
Trichloroethene	38		0.5	0.17	ND	0.00081	0.00022	ND	0.0011	0.0003	ND	0.00076	0.00021					
1,2-Dichloropropane	0.12		0.5	0.11	ND	0.0016	0.0002	ND	0.0022	0.00028	ND	0.0015	0.00019					
Bromodichloromethane	12		8	2.7	ND	0.00081	0.00018	ND	0.0011	0.00024	ND	0.00076	0.00017					
1,4-Dioxane	89		0.65	0.36	ND	0.13	0.057	ND	0.18	0.078	ND	0.12	0.054					
cis-1,3-Dichloropropene	110		0.73		ND	0.00081	0.00026	ND	0.0011	0.00035	ND	0.00076	0.00024					
Toluene	10000		100	44	ND	0.0016	0.00088	ND	0.0022	0.0012	ND	0.0015	0.00083					
4-Methyl-2-pentanone	10000		280	43	ND	0.016	0.0021	ND	0.022	0.0028	ND	0.015	0.002					
Tetrachloroethene	760		0.5	0.43	ND	0.00081	0.00032	ND	0.0011	0.00043	ND	0.00076	0.0003					
trans-1,3-Dichloropropene	110		0.73		ND	0.0016	0.00044	ND	0.0022	0.0006	ND	0.0015	0.00042					
1,3-Dichloropropene, Total	110		0.65	0.12	ND	0.00081	0.00026	ND	0.0011	0.00035	ND	0.00076	0.00024					
1,1,2-Trichloroethane	3.8		0.5	0.15	ND	0.0016	0.00043	ND	0.0022	0.00059	ND	0.0015	0.00041					
Dibromochloromethane	220		8	2.5	ND	0.0016	0.00023	ND	0.0022	0.00031	ND	0.0015	0.00021					
1,2-Dibromoethane	0.74		0.005	0.0012	ND	0.00081	0.00047	ND	0.0011	0.00065	ND	0.00076	0.00045					
2-Hexanone	570		6.3	1.6	ND	0.016	0.0019	ND	0.022	0.0026	ND	0.015	0.0018					
Chlorobenzene	950		10	6.1	ND	0.00081	0.0002	ND	0.0011	0.00028	ND	0.00076	0.00019					
Ethylbenzene	180		70	46	0.00079	J	0.0016	0.00023	ND	0.0022	0.00031	ND	0.0015	0.00022				
p/m-Xylene	1900		1000		0.0026	J	0.0032	0.0009	ND	0.0044	0.0012	ND	0.0031	0.00086				

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB1 (0-2)				SB1 (2-15)				SB2 (0-2)			
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	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
o-Xylene	1900		1000		0.00073	J	0.0016	0.00047	ND	0.0022	0.00064	ND	0.0015	0.00044		
Xylenes, Total	1900		1000	990	0.0033	J	0.0016	0.00047	ND	0.0022	0.00064	ND	0.0015	0.00044		
Styrene	10000	24		24	ND		0.0016	0.00032	ND	0.0022	0.00043	ND	0.0015	0.0003		
Bromoform	400		8	3.5	ND		0.0065	0.0004	ND	0.0088	0.00054	ND	0.0061	0.00038		
Isopropylbenzene	7600	600		600	ND		0.0016	0.00018	ND	0.0022	0.00024	ND	0.0015	0.00017		
1,1,2,2-Tetrachloroethane	7.6		0.084	0.026	ND		0.00081	0.00027	ND	0.0011	0.00037	ND	0.00076	0.00025		
1,3-Dichlorobenzene	10000	61			ND		0.0032	0.00024	ND	0.0044	0.00033	ND	0.0031	0.00023		
1,4-Dichlorobenzene	40	10		10	ND		0.0032	0.00028	ND	0.0044	0.00038	ND	0.0031	0.00026		
1,2-Dichlorobenzene	3800		60	59	ND		0.0032	0.00023	ND	0.0044	0.00032	ND	0.0031	0.00022		
1,2-Dibromo-3-chloropropane	0.029		0.02	0.0092	ND		0.0048	0.0016	ND	0.0066	0.0022	ND	0.0046	0.0015		
1,2,4-Trichlorobenzene	39	27		27	ND		0.0032	0.00044	ND	0.0044	0.0006	ND	0.0031	0.00042		
1,2,3-Trichlorobenzene					ND		0.0032	0.00052	ND	0.0044	0.00071	ND	0.0031	0.00049		
Total VOCs					0.00412	-	-	-	-	-	-	-	-	-	-	-
SEMICOLVATILE ORGANICS BY GC/MS																
Benzaldehyde					ND	1.3	0.27		ND	1.2	0.26	ND	1.4	0.3		
Phenol	3800		200	380	ND	1	0.15		ND	0.95	0.14	1.1	1.1	0.16		
2-Chlorophenol	1100	4.4			ND	1	0.12		ND	0.95	0.11	ND	1.1	0.13		
2-Methylphenol	11000		170		ND	1	0.16		ND	0.95	0.15	0.44	J	1.1	0.17	
Bis(2-chloroisopropyl)ether	44		30	8	ND	1.2	0.17		ND	1.1	0.16	ND	1.3	0.19		
Acetophenone	10000		350		ND	1	0.12		ND	0.95	0.12	ND	1.1	0.14		
1,4-Dioxane	89		0.65	0.36	ND	0.15	0.046		ND	0.14	0.043	ND	0.16	0.05		
3-Methylphenol/4-Methylphenol	1100		17		ND	1.4	0.16		ND	1.4	0.15	1.7	1.6	0.17		
Hexachloroethane	46	0.56		0.56	ND	0.81	0.16		ND	0.76	0.15	ND	0.88	0.18		
Nitrobenzene	11		0.12	0.052	ND	0.91	0.15		ND	0.85	0.14	ND	0.99	0.16		
Isophorone	10000		10		ND	0.91	0.13		ND	0.85	0.12	ND	0.99	0.14		
2-Nitrophenol	1800		28		ND	2.2	0.38		ND	2	0.36	ND	2.4	0.41		
2,4-Dimethylphenol	4400		69		ND	1	0.33		ND	0.95	0.31	ND	1.1	0.36		
Bis(2-chloroethoxy)methane	660		10		ND	1.1	0.1		ND	1	0.095	ND	1.2	0.11		
2,4-Dichlorophenol	660		2		ND	0.91	0.16		ND	0.85	0.15	ND	0.99	0.18		
Naphthalene	13	25		25	1.4	0.2	0.12		0.26	0.19	0.12	5.5	0.22	0.13		
4-Chloroaniline	93	0.42			ND	1	0.18		ND	0.95	0.17	ND	1.1	0.2		
Hexachlorobutadiene	220	10			ND	1	0.15		ND	0.95	0.14	ND	1.1	0.16		
Caprolactam					ND	1	0.31		ND	0.95	0.29	ND	1.1	0.33		
p-Chloro-m-cresol	22000	720			ND	1	0.15		ND	0.95	0.14	ND	1.1	0.16		
2-Methylnaphthalene	57	25		25	0.55	J	1.2	0.12	0.17	J	1.1	0.11	1.8	1.3	0.13	
Hexachlorocyclopentadiene	1300	91			ND	2.9	0.92		ND	2.7	0.86	ND	3.1	0.99		
1,2,4,5-Tetrachlorobenzene	66	4.6			ND	1	0.1		ND	0.95	0.099	ND	1.1	0.11		
2,4,6-Trichlorophenol	220	10			ND	0.61	0.19		ND	0.57	0.18	ND	0.66	0.21		
2,4,5-Trichlorophenol	22000	2100			ND	1	0.19		ND	0.95	0.18	ND	1.1	0.21		
Biphenyl	8.2	0.37			0.14	J	2.3	0.13	ND	2.2	0.12	0.55	J	2.5	0.14	
2-Chloronaphthalene	18000	6000			ND	1	0.1		ND	0.95	0.094	ND	1.1	0.11		
2-Nitroaniline	0.95		0.011	0.83	ND	1	0.19		ND	0.95	0.18	ND	1.1	0.21		
Dimethyl phthalate					ND	1	0.21		ND	0.95	0.2	ND	1.1	0.23		
2,6-Dinitrotoluene	12		0.043		ND	1	0.17		ND	0.95	0.16	ND	1.1	0.19		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB1 (0-2)				SB1 (2-15)				SB2 (0-2)			
	LAB ID:				L2271474-01				L2271474-02				L2271474-03			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
Acenaphthylene	13000	2400			1.8	0.81	0.16	0.16	J	0.76	0.15	21	0.88	0.17		
3-Nitroaniline					ND	1	0.19	ND		0.95	0.18	ND	1.1	0.21		
Acenaphthene	13000	2600			1.4	0.81	0.1	0.5	J	0.76	0.098	8	0.88	0.11		
2,4-Dinitrophenol	440		6.9		ND	4.8	0.47	ND		4.5	0.44	ND	5.3	0.51		
4-Nitrophenol	1800		6		ND	1.4	0.41	ND		1.3	0.39	ND	1.5	0.45		
2,4-Dinitrotoluene	60		0.21		ND	1	0.2	ND		0.95	0.19	ND	1.1	0.22		
Dibenzofuran	220	90			1.2	1	0.096	0.46	J	0.95	0.09	6.1	1.1	0.1		
2,3,4,6-Tetrachlorophenol	6600	1600			ND	1	0.2	ND		0.95	0.19	ND	1.1	0.22		
Diethyl phthalate	10000		2800		ND	1	0.094	ND		0.95	0.088	ND	1.1	0.1		
Fluorene	8800	2800			1.4	1	0.098	0.52	J	0.95	0.092	12	1.1	0.11		
4-Chlorophenyl phenyl ether					ND	1	0.11	ND		0.95	0.1	ND	1.1	0.12		
4-Nitroaniline	880		3.3		ND	1	0.42	ND		0.95	0.39	ND	1.1	0.45		
4,6-Dinitro-o-cresol					ND	2.6	0.48	ND		2.5	0.45	ND	2.8	0.53		
NDPA/DPA	170	3			ND	0.81	0.12	ND		0.76	0.11	ND	0.88	0.12		
4-Bromophenyl phenyl ether					ND	1	0.15	ND		0.95	0.14	ND	1.1	0.17		
Hexachlorobenzene	12	0.96			ND	0.61	0.11	ND		0.57	0.1	ND	0.66	0.12		
Pentachlorophenol	47	5			ND	0.81	0.22	ND		0.76	0.21	ND	0.88	0.24		
Atrazine	81		0.3		ND	0.81	0.35	ND		0.76	0.33	ND	0.88	0.38		
Phenanthrene	66000	10000			18	0.61	0.12	4.7		0.57	0.12	110	E	0.66	0.13	
Anthracene	66000	350			4.4	0.61	0.2	1.2		0.57	0.18	40	0.66	0.21		
Carbazole	930	21			2	1	0.098	0.6	J	0.95	0.092	12	1.1	0.11		
Di-n-butylphthalate	10000	1400			ND	1	0.19	ND		0.95	0.18	ND	1.1	0.21		
Fluoranthene	8800	3200			23	0.61	0.12	4.5		0.57	0.11	150	E	0.66	0.12	
Pyrene	6600	2200			19	0.61	0.1	3.7		0.57	0.094	140	E	0.66	0.11	
Butyl benzyl phthalate	9800	2900			ND	1	0.25	ND		0.95	0.24	ND	1.1	0.28		
3,3'-Dichlorobenzidine	41	7.7			ND	1	0.27	ND		0.95	0.25	ND	1.1	0.29		
Benzo(a)anthracene	6.1	26			12	0.61	0.11	2.4		0.57	0.11	120	E	0.66	0.12	
Chrysene	35	220			11	0.61	0.1	2.1		0.57	0.098	84	E	0.66	0.11	
Bis(2-ethylhexyl)phthalate	1300	130			ND	1	0.35	ND		0.95	0.33	ND	1.1	0.38		
Di-n-octylphthalate	2200	10000			ND	1	0.34	ND		0.95	0.32	ND	1.1	0.37		
Benzo(b)fluoranthene	3.5	25			13	0.61	0.17	2.2		0.57	0.16	120	E	0.66	0.18	
Benzo(k)fluoranthene	3.5	200			4.6	0.61	0.16	0.68		0.57	0.15	21	0.66	0.18		
Benzo(a)pyrene	4.2	46			10	0.81	0.25	1.8		0.76	0.23	87	E	0.88	0.27	
Indeno(1,2,3-cd)pyrene	3.5	1400			7.4	0.81	0.14	0.93		0.76	0.13	66	E	0.88	0.15	
Dibenzo(a,h)anthracene	1	23			1.5	0.61	0.12	0.25	J	0.57	0.11	10	0.66	0.13		
Benzo(ghi)perylene	13000	180			6.1	0.81	0.12	0.73	J	0.76	0.11	54	E	0.88	0.13	
Total SVOCs					139.89	-	-	-		27.86	-	-	1072.19	-	-	-
SEMICVOLATILE ORGANICS BY GC/MS-SIM																
Bis(2-chloroethyl)ether	1.3		0.015	0.0056	ND	0.2	0.056	ND		0.19	0.053	ND	0.22	0.061		
n-Nitrosodi-n-propylamine	0.22		0.0025		ND	0.2	0.053	ND		0.19	0.05	ND	0.22	0.058		
Total SVOCs					-	-	-	-		-	-	-	-	-	-	
PESTICIDES BY GC																
Alpha-BHC	3	0.046			ND	0.00078	0.00017	ND		0.00073	0.00016	ND	0.00084	0.00019		
Lindane	17	0.072			ND	0.00078	0.00034	ND		0.00073	0.00032	ND	0.00084	0.00037		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB1 (0-2)				SB1 (2-15)				SB2 (0-2)			
	LAB ID:				L2271474-01				L2271474-02				L2271474-03			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Beta-BHC	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	ND	0.00188	0.00071		ND	0.00175	0.00066		ND	0.00202	0.00076	
Delta-BHC					ND	0.00188	0.00037		ND	0.00175	0.00034		ND	0.00202	0.0004	
Heptachlor	4.1	0.68			ND	0.00093	0.00042		ND	0.00087	0.00039		ND	0.00101	0.00045	
Aldrin	1.1	0.46			ND	0.00188	0.00066		ND	0.00175	0.00061		ND	0.00202	0.00071	
Heptachlor epoxide	2	1.1			ND	0.00352	0.00105		ND	0.00329	0.00098		ND	0.00379	0.00114	
Endosulfan I	1300	110			ND	0.00188	0.00044		ND	0.00175	0.00041		ND	0.00202	0.00047	
trans-Chlordane					0.0164	0.00234	0.00061		ND	0.00219	0.00057		ND	0.00253	0.00066	
cis-Chlordane					0.0163	0.00234	0.00065		ND	0.00219	0.00061	0.00682 IP	0.00253	0.0007		
4,4'-DDE	55	41			0.0419	IP	0.00188	0.00043	ND	0.00175	0.0004	0.0362	IP	0.00202	0.00046	
Dieldrin	1.2	0.11			ND	0.00117	0.00058		ND	0.0011	0.00054		ND	0.00126	0.00063	
Endrin	66	5.5			ND	0.00078	0.00032		ND	0.00073	0.00029		ND	0.00084	0.00034	
4,4'-DDD	78	30			0.00346	IP	0.00188	0.00066	ND	0.00175	0.00062	0.00425	IP	0.00202	0.00072	
Endosulfan II	1300	120			ND	0.00188	0.00062		ND	0.00175	0.00058		ND	0.00202	0.00067	
4,4'-DDT	55	110			0.155	0.00352	0.00151		ND	0.00329	0.00141	0.251 E	0.00379	0.00163		
Endrin aldehyde					ND	0.00234	0.00082		ND	0.00219	0.00076		ND	0.00253	0.00088	
Methoxychlor	1100	630			ND	0.00352	0.00109		ND	0.00329	0.00102		ND	0.00379	0.00118	
Endosulfan sulfate	1300	70			ND	0.00078	0.00035		ND	0.00073	0.00033		ND	0.00084	0.00038	
Endrin ketone					ND	0.00188	0.00048		ND	0.00175	0.00045		ND	0.00202	0.00052	
Toxaphene	17	1.2			ND	0.0352	0.00984		ND	0.0329	0.0092		ND	0.0379	0.0106	
Chlordane	53	49			0.135	P	0.0156	0.00621	ND	0.0146	0.00581		ND	0.0169	0.0067	
POLYCHLORINATED BIPHENYLS BY GC																
Aroclor 1016	15	66			ND	0.0408	0.00362		ND	0.0369	0.00327		ND	0.0436	0.00388	
Aroclor 1221	4.7	0.16		0.16	ND	0.0408	0.00408		ND	0.0369	0.00369		ND	0.0436	0.00437	
Aroclor 1232	9.3	0.13		0.14	ND	0.0408	0.00864		ND	0.0369	0.00782		ND	0.0436	0.00926	
Aroclor 1242	9.3	4			ND	0.0408	0.00549		ND	0.0369	0.00497		ND	0.0436	0.00588	
Aroclor 1248	9.3	16			ND	0.0408	0.00611		ND	0.0369	0.00553		ND	0.0436	0.00655	
Aroclor 1254	4.4	140			0.141	0.0408	0.00446		ND	0.0369	0.00403		ND	0.0436	0.00478	
Aroclor 1260	9.3	150			ND	0.0408	0.00753		ND	0.0369	0.00681		ND	0.0436	0.00807	
Aroclor 1262					ND	0.0408	0.00518		ND	0.0369	0.00468		ND	0.0436	0.00554	
Aroclor 1268					0.0224	J	0.0408	0.00422	ND	0.0369	0.00382	0.0131 J	0.0436	0.00452		
PCBs, Total					0.163	J	0.0408	0.00362	ND	0.0369	0.00327	0.0131 J	0.0436	0.00388		
TOTAL METALS																
Aluminum, Total					1460	9.56	2.58		5400	8.82	2.38		10300	10.4	2.82	
Antimony, Total	88	27			ND	4.78	0.363		ND	4.41	0.335		ND	5.23	0.397	
Arsenic, Total	12	29			2.23	0.956	0.199		7.16	0.882	0.183		6.94	1.04	0.218	
Barium, Total	44000	8200			71.5	0.956	0.166		94.6	0.882	0.153		159	1.04	0.182	
Beryllium, Total	440	320			ND	0.478	0.032		0.309 J	0.441	0.029		0.471 J	0.523	0.035	
Cadmium, Total	110	38			0.51	J	0.956	0.094	0.097 J	0.882	0.086		0.446 J	1.04	0.102	
Calcium, Total					31500	9.56	3.34		2730	8.82	3.09		7430	10.4	3.66	
Chromium, Total					8.43	0.956	0.092		16.7	0.882	0.085		22.1	1.04	0.1	
Cobalt, Total	66	45			1.11	J	1.91	0.159	9.33	1.76	0.146		7.45	2.09	0.174	
Copper, Total	7200	43000			4.34	0.956	0.247		88.8	0.882	0.228		36.3	1.04	0.27	
Iron, Total	150000				4290	4.78	0.863		20300	4.41	0.796		19600	5.23	0.944	
Lead, Total	500	450			78.2	4.78	0.256		245	4.41	0.236		308	5.23	0.28	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB1 (0-2)				SB1 (2-15)				SB2 (0-2)			
	LAB ID:				L2271474-01				L2271474-02				L2271474-03			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
ANALYTE	PA-RDCS (mg/kg)	PA-RSGG (mg/kg)	PA-RSGX (mg/kg)	PA-VI-S-R (mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Magnesium, Total					3080	9.56	1.47		1820	8.82	1.36		3850	10.4	1.61	
Manganese, Total	31000	2000			229	0.956	0.152		436	0.882	0.14		330	1.04	0.166	
Mercury, Total	35	10			0.356	0.083	0.054		1.38	0.079	0.052		1.06	0.083	0.054	
Nickel, Total	4400	650			1.78	J	2.39	0.231	8.96	2.2	0.213		13.3	2.61	0.253	
Potassium, Total					203	J	239	13.8	612	220	12.7		1930	261	15.1	
Selenium, Total	1100	26			ND	1.91	0.247		ND	1.76	0.228		0.294	J	2.09	0.27
Silver, Total	1100	84			ND	0.478	0.27		ND	0.441	0.25		ND	0.523	0.296	
Sodium, Total					136	J	191	3.01	56.7	J	176	2.78	69.5	J	209	3.29
Thallium, Total	2	14			ND	1.91	0.301		0.557	J	1.76	0.278	0.482	J	2.09	0.329
Vanadium, Total	15	240			14.5	0.956	0.194		19.3	0.882	0.179		31.5	1.04	0.212	
Zinc, Total	66000	12000			83.9	4.78	0.28		141	4.41	0.258		210	5.23	0.306	
GENERAL CHEMISTRY																
Solids, Total					80.6	0.1	NA		86.6	0.1	NA		75.1	0.1	NA	

* Comparison is not performed on parameters with non-numeric criteria.

PA-RDCS: Pennsylvania Residential Direct Contact Soil MSCs Criteria per November 20, 2021 Statewide Health Standards.

PA-RSGG: Pennsylvania Used Aquifers Residential Generic Soil to Groundwater MSCs Criteria per November 20, 2021 Statewide Health Standards.

PA-RSGX: Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater MSCs Criteria per November 20, 2021 Statewide Health Standards.

PA-VI-S-R: Pennsylvania Residential Soil Statewide Health Standard Vapor Intrusion Screening Values Criteria per Land Recycling Program Technical Guidance Manual for VI effective November 20, 2021.

ND - Not detected at the reported detection limit for the sample.

J - The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL)

P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB2 (0-2)				SB2 (0-2)				SB2 (2-15)				
	LAB ID:				L2271474-03 R1				L2271474-03 R2				L2271474-04				
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022				
	SAMPLE MATRIX:				SOIL				SOIL				SOIL				
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)													
VOLATILE ORGANICS BY EPA 5035																	
Dichlorodifluoromethane	1900	100	100	100	-	-	-	-	-	-	-	-	ND	0.013	0.0012		
Chloromethane	250		3	0.38	-	-	-	-	-	-	-	-	ND	0.005	0.0012		
Vinyl chloride	0.93		0.2	0.027	-	-	-	-	-	-	-	-	ND	0.0013	0.00042		
Bromomethane	95		1	0.54	-	-	-	-	-	-	-	-	ND	0.0025	0.00073		
Chloroethane	10000		2100	450	-	-	-	-	-	-	-	-	ND	0.0025	0.00057		
Trichlorofluoromethane	10000		200	87	-	-	-	-	-	-	-	-	ND	0.005	0.00088		
1,1-Dichloroethene	3800		0.7	0.19	-	-	-	-	-	-	-	-	ND	0.0013	0.0003		
Carbon disulfide	10000		150	130	-	-	-	-	-	-	-	-	ND	0.013	0.0057		
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	3400		3400	-	-	-	-	-	-	-	-	ND	0.005	0.00088		
Methylene chloride	1300		0.5	0.076	-	-	-	-	-	-	-	-	ND	0.0063	0.0029		
Acetone	10000		3100	350	-	-	-	-	-	-	-	-	ND	0.032	0.013		
trans-1,2-Dichloroethene	4400		10	2.3	-	-	-	-	-	-	-	-	ND	0.0019	0.00017		
Methyl Acetate	10000		3500		-	-	-	-	-	-	-	-	ND	0.005	0.0012		
Methyl tert butyl ether	1700		2	0.28	-	-	-	-	-	-	-	-	ND	0.0025	0.00025		
1,1-Dichloroethane	280		3.1	0.75	-	-	-	-	-	-	-	-	ND	0.0013	0.00018		
cis-1,2-Dichloroethene	440		7		-	-	-	-	-	-	-	-	ND	0.0013	0.00022		
1,2-Dichloroethene, Total					-	-	-	-	-	-	-	-	ND	0.0013	0.00017		
Cyclohexane	10000	1700		1700	-	-	-	-	-	-	-	-	ND	0.013	0.00069		
Bromochloromethane	760		9	1.6	-	-	-	-	-	-	-	-	ND	0.0025	0.00026		
Chloroform	19		8	2	-	-	-	-	-	-	-	-	ND	0.0019	0.00018		
Carbon tetrachloride	75		0.5	0.26	-	-	-	-	-	-	-	-	ND	0.0013	0.00029		
1,1,1-Trichloroethane	10000		20	7.2	-	-	-	-	-	-	-	-	ND	0.00063	0.00021		
2-Butanone	10000		400	76	-	-	-	-	-	-	-	-	ND	0.013	0.0028		
Benzene	57		0.5	0.13	-	-	-	-	-	-	-	-	ND	0.00063	0.00021		
1,2-Dichloroethane	17		0.5	0.1	-	-	-	-	-	-	-	-	ND	0.0013	0.00032		
Methyl cyclohexane					-	-	-	-	-	-	-	-	ND	0.005	0.00076		
Trichloroethene	38		0.5	0.17	-	-	-	-	-	-	-	-	ND	0.00063	0.00017		
1,2-Dichloropropane	0.12		0.5	0.11	-	-	-	-	-	-	-	-	ND	0.0013	0.00016		
Bromodichloromethane	12		8	2.7	-	-	-	-	-	-	-	-	ND	0.00063	0.00014		
1,4-Dioxane	89		0.65	0.36	-	-	-	-	-	-	-	-	ND	0.1	0.044		
cis-1,3-Dichloropropene	110		0.73		-	-	-	-	-	-	-	-	ND	0.00063	0.0002		
Toluene	10000		100	44	-	-	-	-	-	-	-	-	ND	0.0013	0.00068		
4-Methyl-2-pentanone	10000		280	43	-	-	-	-	-	-	-	-	ND	0.013	0.0016		
Tetrachloroethene	760		0.5	0.43	-	-	-	-	-	-	-	-	ND	0.00063	0.00025		
trans-1,3-Dichloropropene	110		0.73		-	-	-	-	-	-	-	-	ND	0.0013	0.00034		
1,3-Dichloropropene, Total	110		0.65	0.12	-	-	-	-	-	-	-	-	ND	0.00063	0.0002		
1,1,2-Trichloroethane	3.8		0.5	0.15	-	-	-	-	-	-	-	-	ND	0.0013	0.00034		
Dibromochloromethane	220		8	2.5	-	-	-	-	-	-	-	-	ND	0.0013	0.00018		
1,2-Dibromoethane	0.74		0.005	0.0012	-	-	-	-	-	-	-	-	ND	0.00063	0.00037		
2-Hexanone	570		6.3	1.6	-	-	-	-	-	-	-	-	ND	0.013	0.0015		
Chlorobenzene	950		10	6.1	-	-	-	-	-	-	-	-	ND	0.00063	0.00016		
Ethylbenzene	180		70	46	-	-	-	-	-	-	-	-	ND	0.0013	0.00018		
p/m-Xylene	1900		1000		-	-	-	-	-	-	-	-	ND	0.0025	0.00071		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB2 (0-2)				SB2 (0-2)				SB2 (2-15)			
	LAB ID:				L2271474-03 R1				L2271474-03 R2				L2271474-04			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
o-Xylene	1900		1000		-	-	-	-	-	-	-	-	ND	0.0013	0.00037	
Xylenes, Total	1900		1000	990	-	-	-	-	-	-	-	-	ND	0.0013	0.00037	
Styrene	10000	24		24	-	-	-	-	-	-	-	-	ND	0.0013	0.00025	
Bromoform	400		8	3.5	-	-	-	-	-	-	-	-	ND	0.005	0.00031	
Isopropylbenzene	7600	600		600	-	-	-	-	-	-	-	-	ND	0.0013	0.00014	
1,1,2,2-Tetrachloroethane	7.6		0.084	0.026	-	-	-	-	-	-	-	-	ND	0.00063	0.00021	
1,3-Dichlorobenzene	10000	61			-	-	-	-	-	-	-	-	ND	0.0025	0.00019	
1,4-Dichlorobenzene	40	10		10	-	-	-	-	-	-	-	-	ND	0.0025	0.00022	
1,2-Dichlorobenzene	3800		60	59	-	-	-	-	-	-	-	-	ND	0.0025	0.00018	
1,2-Dibromo-3-chloropropane	0.029		0.02	0.0092	-	-	-	-	-	-	-	-	ND	0.0038	0.0013	
1,2,4-Trichlorobenzene	39	27		27	-	-	-	-	-	-	-	-	ND	0.0025	0.00034	
1,2,3-Trichlorobenzene					-	-	-	-	-	-	-	-	ND	0.0025	0.00041	
Total VOCs					-	-	-	-	-	-	-	-	-	-	-	
SEMITOLATILE ORGANICS BY GC/MS																
Benzaldehyde					-	-	-	-	-	-	-	-	ND	0.26	0.054	
Phenol	3800		200	380	-	-	-	-	-	-	-	-	ND	0.2	0.03	
2-Chlorophenol	1100	4.4			-	-	-	-	-	-	-	-	ND	0.2	0.024	
2-Methylphenol	11000		170		-	-	-	-	-	-	-	-	ND	0.2	0.031	
Bis(2-chloroisopropyl)ether	44		30	8	-	-	-	-	-	-	-	-	ND	0.24	0.034	
Acetophenone	10000		350		-	-	-	-	-	-	-	-	ND	0.2	0.025	
1,4-Dioxane	89		0.65	0.36	-	-	-	-	-	-	-	-	ND	0.03	0.0091	
3-Methylphenol/4-Methylphenol	1100		17		-	-	-	-	-	-	-	-	ND	0.29	0.031	
Hexachloroethane	46	0.56		0.56	-	-	-	-	-	-	-	-	ND	0.16	0.032	
Nitrobenzene	11		0.12	0.052	-	-	-	-	-	-	-	-	ND	0.18	0.03	
Isophorone	10000		10		-	-	-	-	-	-	-	-	ND	0.18	0.026	
2-Nitrophenol	1800		28		-	-	-	-	-	-	-	-	ND	0.43	0.075	
2,4-Dimethylphenol	4400		69		-	-	-	-	-	-	-	-	ND	0.2	0.066	
Bis(2-chloroethoxy)methane	660		10		-	-	-	-	-	-	-	-	ND	0.22	0.02	
2,4-Dichlorophenol	660		2		-	-	-	-	-	-	-	-	ND	0.18	0.032	
Naphthalene	13	25		25	-	-	-	-	-	-	-	-	0.089	0.04	0.024	
4-Chloroaniline	93	0.42			-	-	-	-	-	-	-	-	ND	0.2	0.036	
Hexachlorobutadiene	220	10			-	-	-	-	-	-	-	-	ND	0.2	0.029	
Caprolactam					-	-	-	-	-	-	-	-	ND	0.2	0.061	
p-Chloro-m-cresol	22000	720			-	-	-	-	-	-	-	-	ND	0.2	0.03	
2-Methylnaphthalene	57	25		25	-	-	-	-	-	-	-	-	0.053	J	0.24	0.024
Hexachlorocyclopentadiene	1300	91			-	-	-	-	-	-	-	-	ND	0.57	0.18	
1,2,4,5-Tetrachlorobenzene	66	4.6			-	-	-	-	-	-	-	-	ND	0.2	0.021	
2,4,6-Trichlorophenol	220	10			-	-	-	-	-	-	-	-	ND	0.12	0.038	
2,4,5-Trichlorophenol	22000	2100			-	-	-	-	-	-	-	-	ND	0.2	0.038	
Biphenyl	8.2	0.37			-	-	-	-	-	-	-	-	ND	0.46	0.026	
2-Chloronaphthalene	18000	6000			-	-	-	-	-	-	-	-	ND	0.2	0.02	
2-Nitroaniline	0.95		0.011	0.83	-	-	-	-	-	-	-	-	ND	0.2	0.039	
Dimethyl phthalate					-	-	-	-	-	-	-	-	ND	0.2	0.042	
2,6-Dinitrotoluene	12		0.043		-	-	-	-	-	-	-	-	ND	0.2	0.034	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB2 (0-2)				SB2 (0-2)				SB2 (2-15)			
	LAB ID:				L2271474-03 R1				L2271474-03 R2				L2271474-04			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
Acenaphthylene	13000	2400			-	-	-	-	-	-	-	-	ND	0.16	0.031	
3-Nitroaniline					-	-	-	-	-	-	-	-	ND	0.2	0.038	
Acenaphthene	13000	2600			-	-	-	-	-	-	-	-	0.11	J	0.16	0.021
2,4-Dinitrophenol	440		6.9		-	-	-	-	-	-	-	-	ND	0.96	0.093	
4-Nitrophenol	1800		6		-	-	-	-	-	-	-	-	ND	0.28	0.082	
2,4-Dinitrotoluene	60		0.21		-	-	-	-	-	-	-	-	ND	0.2	0.04	
Dibenzofuran	220	90			-	-	-	-	-	-	-	-	0.075	J	0.2	0.019
2,3,4,6-Tetrachlorophenol	6600	1600			-	-	-	-	-	-	-	-	ND	0.2	0.04	
Diethyl phthalate	10000		2800		-	-	-	-	-	-	-	-	ND	0.2	0.018	
Fluorene	8800	2800			-	-	-	-	-	-	-	-	0.084	J	0.2	0.019
4-Chlorophenyl phenyl ether					-	-	-	-	-	-	-	-	ND	0.2	0.021	
4-Nitroaniline	880		3.3		-	-	-	-	-	-	-	-	ND	0.2	0.083	
4,6-Dinitro-o-cresol					-	-	-	-	-	-	-	-	ND	0.52	0.096	
NDPA/DPA	170	3			-	-	-	-	-	-	-	-	ND	0.16	0.023	
4-Bromophenyl phenyl ether					-	-	-	-	-	-	-	-	ND	0.2	0.03	
Hexachlorobenzene	12	0.96			-	-	-	-	-	-	-	-	ND	0.12	0.022	
Pentachlorophenol	47	5			-	-	-	-	-	-	-	-	ND	0.16	0.044	
Atrazine	81		0.3		-	-	-	-	-	-	-	-	ND	0.16	0.07	
Phenanthrene	66000	10000			-	-	-	-	130	13	2.7	0.77	0.12	0.024		
Anthracene	66000	350			-	-	-	-	-	-	-	-	0.18	0.12	0.039	
Carbazole	930	21			-	-	-	-	-	-	-	-	0.073	J	0.2	0.019
Di-n-butylphthalate	10000	1400			-	-	-	-	-	-	-	-	ND	0.2	0.038	
Fluoranthene	8800	3200			-	-	-	-	220	13	2.5	0.92	0.12	0.023		
Pyrene	6600	2200			-	-	-	-	190	13	2.2	0.77	0.12	0.02		
Butyl benzyl phthalate	9800	2900			-	-	-	-	-	-	-	-	ND	0.2	0.05	
3,3'-Dichlorobenzidine	41	7.7			-	-	-	-	-	-	-	-	ND	0.2	0.053	
Benzo(a)anthracene	6.1	26			-	-	-	-	110	13	2.5	0.53	0.12	0.022		
Chrysene	35	220			-	-	-	-	98	13	2.3	0.48	0.12	0.021		
Bis(2-ethylhexyl)phthalate	1300	130			-	-	-	-	-	-	-	-	ND	0.2	0.069	
Di-n-octylphthalate	2200	10000			-	-	-	-	-	-	-	-	ND	0.2	0.068	
Benzo(b)fluoranthene	3.5	25			-	-	-	-	110	13	3.7	0.54	0.12	0.034		
Benzo(k)fluoranthene	3.5	200			-	-	-	-	-	-	-	-	0.16	0.12	0.032	
Benzo(a)pyrene	4.2	46			-	-	-	-	92	18	5.4	0.42	0.16	0.049		
Indeno(1,2,3-cd)pyrene	3.5	1400			-	-	-	-	59	18	3	0.22	0.16	0.028		
Dibenzo(a,h)anthracene	1	23			-	-	-	-	-	-	-	-	0.063	J	0.12	0.023
Benzo(ghi)perylene	13000	180			-	-	-	-	49	18	2.6	0.17	0.16	0.024		
Total SVOCs					-	-	-	-	1058	-	-	-	5.707	-	-	
SEMICVOLATILE ORGANICS BY GC/MS-SIM																
Bis(2-chloroethyl)ether	1.3		0.015	0.0056	-	-	-	-	-	-	-	-	ND	0.04	0.011	
n-Nitrosodi-n-propylamine	0.22		0.0025		-	-	-	-	-	-	-	-	ND	0.04	0.01	
Total SVOCs					-	-	-	-	-	-	-	-	-	-	-	
PESTICIDES BY GC																
Alpha-BHC	3	0.046			-	-	-	-	-	-	-	-	ND	0.0008	0.00018	
Lindane	17	0.072			-	-	-	-	-	-	-	-	ND	0.0008	0.00035	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB2 (0-2)				SB2 (0-2)				SB2 (2-15)			
	LAB ID:				L2271474-03 R1				L2271474-03 R2				L2271474-04			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Beta-BHC	10	0.21			-	-	-	-	-	-	-	-	ND	0.00193	0.00073	
Delta-BHC					-	-	-	-	-	-	-	-	ND	0.00193	0.00038	
Heptachlor	4.1	0.68			-	-	-	-	-	-	-	-	ND	0.00096	0.00043	
Aldrin	1.1	0.46			-	-	-	-	-	-	-	-	ND	0.00193	0.00068	
Heptachlor epoxide	2	1.1			-	-	-	-	-	-	-	-	ND	0.00362	0.00108	
Endosulfan I	1300	110			-	-	-	-	-	-	-	-	ND	0.00193	0.00045	
trans-Chlordane					-	-	-	-	-	-	-	-	ND	0.00241	0.00063	
cis-Chlordane					-	-	-	-	-	-	-	-	ND	0.00241	0.00067	
4,4'-DDE	55	41			-	-	-	-	-	-	-	-	0.00068	JIP	0.00193	0.00044
Dieldrin	1.2	0.11			-	-	-	-	-	-	-	-	ND	0.00121	0.0006	
Endrin	66	5.5			-	-	-	-	-	-	-	-	ND	0.0008	0.00033	
4,4'-DDD	78	30			-	-	-	-	-	-	-	-	ND	0.00193	0.00068	
Endosulfan II	1300	120			-	-	-	-	-	-	-	-	ND	0.00193	0.00064	
4,4'-DDT	55	110			0.244	0.019	0.00814	-	-	-	-	-	0.00205	J	0.00362	0.00155
Endrin aldehyde					-	-	-	-	-	-	-	-	ND	0.00241	0.00084	
Methoxychlor	1100	630			-	-	-	-	-	-	-	-	ND	0.00362	0.00112	
Endosulfan sulfate	1300	70			-	-	-	-	-	-	-	-	ND	0.0008	0.00036	
Endrin ketone					-	-	-	-	-	-	-	-	ND	0.00193	0.00049	
Toxaphene	17	1.2			-	-	-	-	-	-	-	-	ND	0.0362	0.0101	
Chlordane	53	49			-	-	-	-	-	-	-	-	ND	0.0161	0.00639	
POLYCHLORINATED BIPHENYLS BY GC																
Aroclor 1016	15	66			-	-	-	-	-	-	-	-	ND	0.0395	0.00351	
Aroclor 1221	4.7	0.16	0.16		-	-	-	-	-	-	-	-	ND	0.0395	0.00396	
Aroclor 1232	9.3	0.13	0.14		-	-	-	-	-	-	-	-	ND	0.0395	0.00838	
Aroclor 1242	9.3	4			-	-	-	-	-	-	-	-	ND	0.0395	0.00533	
Aroclor 1248	9.3	16			-	-	-	-	-	-	-	-	ND	0.0395	0.00593	
Aroclor 1254	4.4	140			-	-	-	-	-	-	-	-	ND	0.0395	0.00432	
Aroclor 1260	9.3	150			-	-	-	-	-	-	-	-	ND	0.0395	0.00731	
Aroclor 1262					-	-	-	-	-	-	-	-	ND	0.0395	0.00502	
Aroclor 1268					-	-	-	-	-	-	-	-	ND	0.0395	0.0041	
PCBs, Total					-	-	-	-	-	-	-	-	ND	0.0395	0.00351	
TOTAL METALS																
Aluminum, Total					-	-	-	-	-	-	-	-	25300	9.45	2.55	
Antimony, Total	88	27			-	-	-	-	-	-	-	-	ND	4.73	0.359	
Arsenic, Total	12	29			-	-	-	-	-	-	-	-	0.37	J	0.945	0.197
Barium, Total	44000	8200			-	-	-	-	-	-	-	-	145	0.945	0.164	
Beryllium, Total	440	320			-	-	-	-	-	-	-	-	1.34	0.473	0.031	
Cadmium, Total	110	38			-	-	-	-	-	-	-	-	ND	0.945	0.093	
Calcium, Total					-	-	-	-	-	-	-	-	646	9.45	3.31	
Chromium, Total					-	-	-	-	-	-	-	-	39.9	0.945	0.091	
Cobalt, Total	66	45			-	-	-	-	-	-	-	-	18.2	1.89	0.157	
Copper, Total	7200	43000			-	-	-	-	-	-	-	-	25.9	0.945	0.244	
Iron, Total	150000				-	-	-	-	-	-	-	-	38400	4.73	0.854	
Lead, Total	500	450			-	-	-	-	-	-	-	-	13.3	4.73	0.253	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:		SB2 (0-2)				SB2 (0-2)				SB2 (2-15)					
	LAB ID:		L2271474-03 R1				L2271474-03 R2				L2271474-04					
	COLLECTION DATE:		12/19/2022				12/19/2022				12/19/2022					
	SAMPLE MATRIX:		SOIL				SOIL				SOIL					
ANALYTE	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Magnesium, Total					-	-	-	-	-	-	-	-	13000	9.45	1.46	
Manganese, Total	31000	2000			-	-	-	-	-	-	-	-	1060	0.945	0.15	
Mercury, Total	35	10			-	-	-	-	-	-	-	-	ND	0.078	0.051	
Nickel, Total	4400	650			-	-	-	-	-	-	-	-	38.3	2.36	0.229	
Potassium, Total					-	-	-	-	-	-	-	-	12500	236	13.6	
Selenium, Total	1100	26			-	-	-	-	-	-	-	-	ND	1.89	0.244	
Silver, Total	1100	84			-	-	-	-	-	-	-	-	ND	0.473	0.268	
Sodium, Total					-	-	-	-	-	-	-	-	233	189	2.98	
Thallium, Total	2	14			-	-	-	-	-	-	-	-	2.59	1.89	0.298	
Vanadium, Total	15	240			-	-	-	-	-	-	-	-	53.5	0.945	0.192	
Zinc, Total	66000	12000			-	-	-	-	-	-	-	-	114	4.73	0.277	
GENERAL CHEMISTRY																
Solids, Total					-	-	-	-	-	-	-	-	80.8	0.1	NA	

* Comparison is not performed on parameters with non-numeric criteria.

PA-RDCS: Pennsylvania Residential Direct Contact Soil MSCs Criteria per November 20, 2021 Statewide Health Standard

PA-RSGG: Pennsylvania Used Aquifers Residential Generic Soil to Groundwater MSCs Criteria per November 20, 2021 Statewide Health Standard

PA-RSGX: Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater MSCs Criteria per November 20, 2021 Statewide Health Standard

PA-VI-S-R: Pennsylvania Residential Soil Statewide Health Standard Vapor Intrusion Screening Values

ND - Not detected at the reported detection limit for the sample.

J - The reported result is an estimate. The value is less than the minimum calibration level but greater than the maximum calibration level.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB3 (0-2)				SB3 (2-15)				SB4 (0-2)			
	LAB ID:				L2271474-05				L2271474-06				L2271474-07			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
VOLATILE ORGANICS BY EPA 5035																
Dichlorodifluoromethane	1900	100	100	100	ND	0.014	0.0013	ND	0.014	0.0013	ND	0.011	0.001	ND	0.011	0.001
Chloromethane	250		3	0.38	ND	0.0056	0.0013	ND	0.0058	0.0013	ND	0.0045	0.001	ND	0.0045	0.001
Vinyl chloride	0.93		0.2	0.027	ND	0.0014	0.00047	ND	0.0014	0.00048	ND	0.0011	0.00037	ND	0.0011	0.00037
Bromomethane	95		1	0.54	ND	0.0028	0.00082	ND	0.0029	0.00084	ND	0.0022	0.00065	ND	0.0022	0.00065
Chloroethane	10000		2100	450	ND	0.0028	0.00064	ND	0.0029	0.00065	ND	0.0022	0.0005	ND	0.0022	0.0005
Trichlorofluoromethane	10000		200	87	ND	0.0056	0.00098	ND	0.0058	0.001	ND	0.0045	0.00078	ND	0.0045	0.00078
1,1-Dichloroethene	3800		0.7	0.19	ND	0.0014	0.00034	ND	0.0014	0.00034	ND	0.0011	0.00026	ND	0.0011	0.00026
Carbon disulfide	10000		150	130	ND	0.014	0.0064	ND	0.014	0.0066	ND	0.011	0.0051	ND	0.011	0.0051
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	3400		3400	ND	0.0056	0.00098	ND	0.0058	0.001	ND	0.0045	0.00077	ND	0.0045	0.00077
Methylene chloride	1300		0.5	0.076	ND	0.007	0.0032	ND	0.0072	0.0033	ND	0.0056	0.0026	ND	0.0056	0.0026
Acetone	10000		3100	350	ND	0.035	0.014	ND	0.036	0.014	ND	0.028	0.011	ND	0.028	0.011
trans-1,2-Dichloroethene	4400		10	2.3	ND	0.0021	0.00019	ND	0.0022	0.0002	ND	0.0017	0.00015	ND	0.0017	0.00015
Methyl Acetate	10000		3500		ND	0.0056	0.0013	ND	0.0058	0.0014	ND	0.0045	0.0011	ND	0.0045	0.0011
Methyl tert butyl ether	1700		2	0.28	ND	0.0028	0.00028	ND	0.0029	0.00029	ND	0.0022	0.00022	ND	0.0022	0.00022
1,1-Dichloroethane	280		3.1	0.75	ND	0.0014	0.0002	ND	0.0014	0.00021	ND	0.0011	0.00016	ND	0.0011	0.00016
cis-1,2-Dichloroethene	440		7		ND	0.0014	0.00025	ND	0.0014	0.00025	ND	0.0011	0.0002	ND	0.0011	0.0002
1,2-Dichloroethene, Total					ND	0.0014	0.00019	ND	0.0014	0.0002	ND	0.0011	0.00015	ND	0.0011	0.00015
Cyclohexane	10000	1700		1700	ND	0.014	0.00077	ND	0.014	0.00079	ND	0.011	0.00061	ND	0.011	0.00061
Bromochloromethane	760		9	1.6	ND	0.0028	0.00029	ND	0.0029	0.0003	ND	0.0022	0.00023	ND	0.0022	0.00023
Chloroform	19		8	2	ND	0.0021	0.0002	ND	0.0022	0.0002	ND	0.0017	0.00016	ND	0.0017	0.00016
Carbon tetrachloride	75		0.5	0.26	ND	0.0014	0.00032	ND	0.0014	0.00033	ND	0.0011	0.00026	ND	0.0011	0.00026
1,1,1-Trichloroethane	10000		20	7.2	ND	0.0007	0.00024	ND	0.00072	0.00024	ND	0.00056	0.00019	ND	0.00056	0.00019
2-Butanone	10000		400	76	ND	0.014	0.0031	ND	0.014	0.0032	ND	0.011	0.0025	ND	0.011	0.0025
Benzene	57		0.5	0.13	ND	0.0007	0.00023	ND	0.00072	0.00024	ND	0.00056	0.00018	ND	0.00056	0.00018
1,2-Dichloroethane	17		0.5	0.1	ND	0.0014	0.00036	ND	0.0014	0.00037	ND	0.0011	0.00029	ND	0.0011	0.00029
Methyl cyclohexane					ND	0.0056	0.00085	ND	0.0058	0.00087	ND	0.0045	0.00067	ND	0.0045	0.00067
Trichloroethene	38		0.5	0.17	ND	0.0007	0.00019	ND	0.00072	0.0002	ND	0.00056	0.00015	ND	0.00056	0.00015
1,2-Dichloropropane	0.12		0.5	0.11	ND	0.0014	0.00018	ND	0.0014	0.00018	ND	0.0011	0.00014	ND	0.0011	0.00014
Bromodichloromethane	12		8	2.7	ND	0.0007	0.00015	ND	0.00072	0.00016	ND	0.00056	0.00012	ND	0.00056	0.00012
1,4-Dioxane	89		0.65	0.36	ND	0.11	0.05	ND	0.12	0.051	ND	0.089	0.039	ND	0.089	0.039
cis-1,3-Dichloropropene	110		0.73		ND	0.0007	0.00022	ND	0.00072	0.00023	ND	0.00056	0.00018	ND	0.00056	0.00018
Toluene	10000		100	44	ND	0.0014	0.00076	ND	0.0014	0.00078	ND	0.0011	0.00061	ND	0.0011	0.00061
4-Methyl-2-pentanone	10000		280	43	ND	0.014	0.0018	ND	0.014	0.0018	ND	0.011	0.0014	ND	0.011	0.0014
Tetrachloroethene	760		0.5	0.43	ND	0.0007	0.00028	ND	0.00072	0.00028	ND	0.00056	0.00022	ND	0.00056	0.00022
trans-1,3-Dichloropropene	110		0.73		ND	0.0014	0.00038	ND	0.0014	0.00039	ND	0.0011	0.0003	ND	0.0011	0.0003
1,3-Dichloropropene, Total	110		0.65	0.12	ND	0.0007	0.00022	ND	0.00072	0.00023	ND	0.00056	0.00018	ND	0.00056	0.00018
1,1,2-Trichloroethane	3.8		0.5	0.15	ND	0.0014	0.00038	ND	0.0014	0.00039	ND	0.0011	0.0003	ND	0.0011	0.0003
Dibromochloromethane	220		8	2.5	ND	0.0014	0.0002	ND	0.0014	0.0002	ND	0.0011	0.00016	ND	0.0011	0.00016
1,2-Dibromoethane	0.74		0.005	0.0012	ND	0.0007	0.00041	ND	0.00072	0.00042	ND	0.00056	0.00033	ND	0.00056	0.00033
2-Hexanone	570		6.3	1.6	ND	0.014	0.0017	ND	0.014	0.0017	ND	0.011	0.0013	ND	0.011	0.0013
Chlorobenzene	950		10	6.1	ND	0.0007	0.00018	ND	0.00072	0.00018	ND	0.00056	0.00014	ND	0.00056	0.00014
Ethylbenzene	180		70	46	0.00068	J	0.0014	0.0002	ND	0.0014	0.0002	0.00028	J	0.0011	0.00016	
p/m-Xylene	1900		1000		0.0024	J	0.0028	0.00079	ND	0.0029	0.00081	0.00075	J	0.0022	0.00062	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB3 (0-2)				SB3 (2-15)				SB4 (0-2)			
	LAB ID:				L2271474-05				L2271474-06				L2271474-07			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
o-Xylene	1900		1000		0.0007	J	0.0014	0.00041	ND	0.0014	0.00042	ND	0.0011	0.00032		
Xylenes, Total	1900		1000	990	0.0031	J	0.0014	0.00041	ND	0.0014	0.00042	0.00075	J	0.0011	0.00032	
Styrene	10000	24		24	ND		0.0014	0.00028	ND	0.0014	0.00028	ND	0.0011	0.00022		
Bromoform	400		8	3.5	ND		0.0056	0.00035	ND	0.0058	0.00036	ND	0.0045	0.00027		
Isopropylbenzene	7600	600		600	ND		0.0014	0.00015	ND	0.0014	0.00016	ND	0.0011	0.00012		
1,1,2,2-Tetrachloroethane	7.6		0.084	0.026	ND		0.0007	0.00023	ND	0.00072	0.00024	ND	0.00056	0.00018		
1,3-Dichlorobenzene	10000	61			ND		0.0028	0.00021	ND	0.0029	0.00021	ND	0.0022	0.00016		
1,4-Dichlorobenzene	40	10		10	ND		0.0028	0.00024	ND	0.0029	0.00025	ND	0.0022	0.00019		
1,2-Dichlorobenzene	3800		60	59	ND		0.0028	0.0002	ND	0.0029	0.00021	ND	0.0022	0.00016		
1,2-Dibromo-3-chloropropane	0.029		0.02	0.0092	ND		0.0042	0.0014	ND	0.0043	0.0014	ND	0.0033	0.0011		
1,2,4-Trichlorobenzene	39	27		27	ND		0.0028	0.00038	ND	0.0029	0.00039	ND	0.0022	0.0003		
1,2,3-Trichlorobenzene					ND		0.0028	0.00045	ND	0.0029	0.00046	ND	0.0022	0.00036		
Total VOCs					0.00378	-	-	-	-	-	-	-	0.00103	-	-	-
SEMICOLVATILE ORGANICS BY GC/MS																
Benzaldehyde					ND	1.3	0.26		ND	1.2	0.24	ND	1.2	0.25		
Phenol	3800		200	380	ND	0.97	0.15		ND	0.9	0.14	ND	0.94	0.14		
2-Chlorophenol	1100	4.4			ND	0.97	0.12		ND	0.9	0.11	ND	0.94	0.11		
2-Methylphenol	11000		170		ND	0.97	0.15		ND	0.9	0.14	ND	0.94	0.14		
Bis(2-chloroisopropyl)ether	44		30	8	ND	1.2	0.17		ND	1.1	0.15	ND	1.1	0.16		
Acetophenone	10000		350		ND	0.97	0.12		ND	0.9	0.11	ND	0.94	0.12		
1,4-Dioxane	89		0.65	0.36	ND	0.15	0.044		ND	0.13	0.041	ND	0.14	0.043		
3-Methylphenol/4-Methylphenol	1100		17		ND	1.4	0.15		ND	1.3	0.14	ND	1.4	0.15		
Hexachloroethane	46	0.56		0.56	ND	0.78	0.16		ND	0.72	0.14	ND	0.75	0.15		
Nitrobenzene	11		0.12	0.052	ND	0.88	0.14		ND	0.81	0.13	ND	0.85	0.14		
Isophorone	10000		10		ND	0.88	0.13		ND	0.81	0.12	ND	0.85	0.12		
2-Nitrophenol	1800		28		ND	2.1	0.37		ND	1.9	0.34	ND	2	0.35		
2,4-Dimethylphenol	4400		69		ND	0.97	0.32		ND	0.9	0.3	ND	0.94	0.31		
Bis(2-chloroethoxy)methane	660		10		ND	1	0.098		ND	0.97	0.09	ND	1	0.094		
2,4-Dichlorophenol	660		2		ND	0.88	0.16		ND	0.81	0.14	ND	0.85	0.15		
Naphthalene	13	25		25	0.35	0.19	0.12		0.16	J	0.18	0.11	ND	0.19	0.11	
4-Chloroaniline	93	0.42			ND	0.97	0.18		ND	0.9	0.16	ND	0.94	0.17		
Hexachlorobutadiene	220	10			ND	0.97	0.14		ND	0.9	0.13	ND	0.94	0.14		
Caprolactam					ND	0.97	0.3		ND	0.9	0.27	ND	0.94	0.29		
p-Chloro-m-cresol	22000	720			ND	0.97	0.14		ND	0.9	0.13	ND	0.94	0.14		
2-Methylnaphthalene	57	25		25	0.24	J	1.2	0.12	0.11	J	1.1	0.11	ND	1.1	0.11	
Hexachlorocyclopentadiene	1300	91			ND	2.8	0.88		ND	2.6	0.81	ND	2.7	0.85		
1,2,4,5-Tetrachlorobenzene	66	4.6			ND	0.97	0.1		ND	0.9	0.094	ND	0.94	0.098		
2,4,6-Trichlorophenol	220	10			ND	0.58	0.18		ND	0.54	0.17	ND	0.56	0.18		
2,4,5-Trichlorophenol	22000	2100			ND	0.97	0.19		ND	0.9	0.17	ND	0.94	0.18		
Biphenyl	8.2	0.37			ND	2.2	0.13		ND	2	0.12	ND	2.1	0.12		
2-Chloronaphthalene	18000	6000			ND	0.97	0.096		ND	0.9	0.089	ND	0.94	0.093		
2-Nitroaniline	0.95		0.011	0.83	ND	0.97	0.19		ND	0.9	0.17	ND	0.94	0.18		
Dimethyl phthalate					ND	0.97	0.2		ND	0.9	0.19	ND	0.94	0.2		
2,6-Dinitrotoluene	12		0.043		ND	0.97	0.17		ND	0.9	0.15	ND	0.94	0.16		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB3 (0-2)				SB3 (2-15)				SB4 (0-2)			
	LAB ID:				L2271474-05				L2271474-06				L2271474-07			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
Acenaphthylene	13000	2400			0.4	J	0.78	0.15	ND	0.72	0.14	ND	0.75	0.14		
3-Nitroaniline					ND		0.97	0.18	ND	0.9	0.17	ND	0.94	0.18		
Acenaphthene	13000	2600			0.5	J	0.78	0.1	0.35	J	0.72	0.093	ND	0.75	0.097	
2,4-Dinitrophenol	440		6.9		ND		4.7	0.45	ND	4.3	0.42	ND	4.5	0.44		
4-Nitrophenol	1800		6		ND		1.4	0.4	ND	1.2	0.37	ND	1.3	0.38		
2,4-Dinitrotoluene	60		0.21		ND		0.97	0.19	ND	0.9	0.18	ND	0.94	0.19		
Dibenzofuran	220	90			0.39	J	0.97	0.092	0.23	J	0.9	0.085	ND	0.94	0.089	
2,3,4,6-Tetrachlorophenol	6600	1600			ND		0.97	0.2	ND	0.9	0.18	ND	0.94	0.19		
Diethyl phthalate	10000		2800		ND		0.97	0.09	ND	0.9	0.083	ND	0.94	0.087		
Fluorene	8800	2800			0.56	J	0.97	0.095	0.34	J	0.9	0.087	ND	0.94	0.091	
4-Chlorophenyl phenyl ether					ND		0.97	0.1	ND	0.9	0.096	ND	0.94	0.1		
4-Nitroaniline	880		3.3		ND		0.97	0.4	ND	0.9	0.37	ND	0.94	0.39		
4,6-Dinitro-o-cresol					ND		2.5	0.47	ND	2.3	0.43	ND	2.4	0.45		
NDPA/DPA	170	3			ND		0.78	0.11	ND	0.72	0.1	ND	0.75	0.11		
4-Bromophenyl phenyl ether					ND		0.97	0.15	ND	0.9	0.14	ND	0.94	0.14		
Hexachlorobenzene	12	0.96			ND		0.58	0.11	ND	0.54	0.1	ND	0.56	0.1		
Pentachlorophenol	47	5			ND		0.78	0.21	ND	0.72	0.2	ND	0.75	0.21		
Atrazine	81		0.3		ND		0.78	0.34	ND	0.72	0.31	ND	0.75	0.33		
Phenanthrene	66000	10000			4.8		0.58	0.12	3.3	0.54	0.11	0.72	0.56	0.11		
Anthracene	66000	350			1.3		0.58	0.19	0.89	0.54	0.17	ND	0.56	0.18		
Carbazole	930	21			0.56	J	0.97	0.095	0.35	J	0.9	0.087	ND	0.94	0.091	
Di-n-butylphthalate	10000	1400			ND		0.97	0.18	ND	0.9	0.17	ND	0.94	0.18		
Fluoranthene	8800	3200			5.5		0.58	0.11	3.4	0.54	0.1	0.89	0.56	0.11		
Pyrene	6600	2200			4.7		0.58	0.097	2.8	0.54	0.089	0.86	0.56	0.094		
Butyl benzyl phthalate	9800	2900			ND		0.97	0.24	ND	0.9	0.23	ND	0.94	0.24		
3,3'-Dichlorobenzidine	41	7.7			ND		0.97	0.26	ND	0.9	0.24	ND	0.94	0.25		
Benzo(a)anthracene	6.1	26			3.1		0.58	0.11	2	0.54	0.1	0.45	J	0.56	0.1	
Chrysene	35	220			2.9		0.58	0.1	1.7	0.54	0.093	0.48	J	0.56	0.098	
Bis(2-ethylhexyl)phthalate	1300	130			ND		0.97	0.34	ND	0.9	0.31	ND	0.94	0.32		
Di-n-octylphthalate	2200	10000			ND		0.97	0.33	ND	0.9	0.3	ND	0.94	0.32		
Benzo(b)fluoranthene	3.5	25			3		0.58	0.16	2	0.54	0.15	0.52	J	0.56	0.16	
Benzo(k)fluoranthene	3.5	200			0.95		0.58	0.16	0.57	0.54	0.14	0.16	J	0.56	0.15	
Benzo(a)pyrene	4.2	46			2.4		0.78	0.24	1.5	0.72	0.22	0.4	J	0.75	0.23	
Indeno(1,2,3-cd)pyrene	3.5	1400			1.5		0.78	0.14	0.83	0.72	0.12	0.25	J	0.75	0.13	
Dibenzo(a,h)anthracene	1	23			0.37	J	0.58	0.11	0.23	J	0.54	0.1	ND	0.56	0.11	
Benzo(ghi)perylene	13000	180			1.2		0.78	0.11	0.66	J	0.72	0.1	0.23	J	0.75	0.11
Total SVOCs					34.72	-	-	-	21.42	-	-	4.96	-	-	-	
SEMICVOLATILE ORGANICS BY GC/MS-SIM																
Bis(2-chloroethyl)ether	1.3		0.015	0.0056	ND		0.19	0.054	ND	0.18	0.05	ND	0.19	0.052		
n-Nitrosodi-n-propylamine	0.22		0.0025		ND		0.19	0.051	ND	0.18	0.047	ND	0.19	0.049		
Total SVOCs					-	-	-	-	-	-	-	-	-	-	-	
PESTICIDES BY GC																
Alpha-BHC	3	0.046			ND		0.00075	0.00017	ND	0.00072	0.00016	ND	0.00073	0.00016		
Lindane	17	0.072			ND		0.00075	0.00033	ND	0.00072	0.00032	ND	0.00073	0.00032		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB3 (0-2)				SB3 (2-15)				SB4 (0-2)				
	LAB ID:				L2271474-05				L2271474-06				L2271474-07				
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022				
	SAMPLE MATRIX:				SOIL				SOIL				SOIL				
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	
Beta-BHC	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	ND	0.00181	0.00068		ND	0.00173	0.00065		ND	0.00176	0.00066		
Delta-BHC					ND	0.00181	0.00035		ND	0.00173	0.00034		ND	0.00176	0.00034		
Heptachlor	4.1	0.68			ND	0.0009	0.0004		ND	0.00086	0.00038		ND	0.00088	0.00039		
Aldrin	1.1	0.46			ND	0.00181	0.00063		ND	0.00173	0.00061		ND	0.00176	0.00062		
Heptachlor epoxide	2	1.1			ND	0.00339	0.00102		ND	0.00325	0.00097		ND	0.0033	0.00099		
Endosulfan I	1300	110			ND	0.00181	0.00042		ND	0.00173	0.0004		ND	0.00176	0.00041		
trans-Chlordane					0.00187	J	0.00226	0.00059	0.00208	JP	0.00216	0.00057		ND	0.0022	0.00058	
cis-Chlordane					0.00184	JIP	0.00226	0.00063	0.003		0.00216	0.0006		ND	0.0022	0.00061	
4,4'-DDE	55	41			0.0336		0.00181	0.00041	0.00611	IP	0.00173	0.0004		ND	0.00176	0.0004	
Dieldrin	1.2	0.11			ND	0.00113	0.00056		ND	0.00108	0.00054		ND	0.0011	0.00055		
Endrin	66	5.5			ND	0.00075	0.0003		ND	0.00072	0.00029		ND	0.00073	0.0003		
4,4'-DDD	78	30			0.0023		0.00181	0.00064	0.00218	IP	0.00173	0.00061		ND	0.00176	0.00062	
Endosulfan II	1300	120			ND	0.00181	0.0006		ND	0.00173	0.00057		ND	0.00176	0.00058		
4,4'-DDT	55	110			0.0308		0.00339	0.00145	0.0104	IP	0.00325	0.00139		ND	0.0033	0.00142	
Endrin aldehyde					ND		0.00226	0.00079	ND		0.00216	0.00075		ND	0.0022	0.00077	
Methoxychlor	1100	630			ND	0.00339	0.00105		ND	0.00325	0.00101		ND	0.0033	0.00103		
Endosulfan sulfate	1300	70			ND	0.00075	0.00034		ND	0.00072	0.00033		ND	0.00073	0.00033		
Endrin ketone					ND	0.00181	0.00046		ND	0.00173	0.00044		ND	0.00176	0.00045		
Toxaphene	17	1.2			ND	0.0339	0.00949		ND	0.0325	0.00909		ND	0.033	0.00925		
Chlordane	53	49			ND	0.0151	0.00599		ND	0.0144	0.00574		ND	0.0147	0.00584		
POLYCHLORINATED BIPHENYLS BY GC																	
Aroclor 1016	15	66			ND	0.0383	0.0034		ND	0.0356	0.00316		ND	0.0372	0.0033		
Aroclor 1221	4.7	0.16			0.16	ND	0.0383	0.00384	ND	0.0356	0.00356		ND	0.0372	0.00373		
Aroclor 1232	9.3	0.13			0.14	ND	0.0383	0.00813	ND	0.0356	0.00754		ND	0.0372	0.00789		
Aroclor 1242	9.3	4			ND	0.0383	0.00517		ND	0.0356	0.0048		ND	0.0372	0.00502		
Aroclor 1248	9.3	16			ND	0.0383	0.00575		ND	0.0356	0.00534		ND	0.0372	0.00558		
Aroclor 1254	4.4	140			ND	0.0383	0.00419		ND	0.0356	0.00389		ND	0.0372	0.00407		
Aroclor 1260	9.3	150			0.0263	J	0.0383	0.00708	ND	0.0356	0.00658		ND	0.0372	0.00688		
Aroclor 1262					ND		0.0383	0.00487	ND	0.0356	0.00452		ND	0.0372	0.00473		
Aroclor 1268					ND		0.0383	0.00397	ND	0.0356	0.00369		ND	0.0372	0.00386		
PCBs, Total					0.0263	J	0.0383	0.0034	ND	0.0356	0.00316		ND	0.0372	0.0033		
TOTAL METALS																	
Aluminum, Total					9950	9.31	2.51		3130	8.72	2.35		8430	8.89	2.4		
Antimony, Total	88	27			ND	4.65	0.354		ND	4.36	0.331		ND	4.44	0.338		
Arsenic, Total	12	29			12	0.931	0.194		17.2	0.872	0.181		6.25	0.889	0.185		
Barium, Total	44000	8200			143	0.931	0.162		51.3	0.872	0.152		64.7	0.889	0.155		
Beryllium, Total	440	320			0.292	J	0.465	0.031	0.243	J	0.436	0.029	0.467	0.444	0.029		
Cadmium, Total	110	38			0.929	J	0.931	0.091	0.126	J	0.872	0.085	0.121	J	0.889	0.087	
Calcium, Total					31800	9.31	3.26		21400	8.72	3.05		1300	8.89	3.11		
Chromium, Total					27	0.931	0.089		12.2	0.872	0.084		22.2	0.889	0.085		
Cobalt, Total	66	45			6.58	1.86	0.154		24.9	1.74	0.145		10.5	1.78	0.148		
Copper, Total	7200	43000			35.3	0.931	0.24		299	0.872	0.225		21.7	0.889	0.229		
Iron, Total	150000				25700	4.65	0.84		47100	4.36	0.787		18600	4.44	0.803		
Lead, Total	500	450			381	4.65	0.249		83.2	4.36	0.234		90.4	4.44	0.238		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB3 (0-2)				SB3 (2-15)				SB4 (0-2)			
	LAB ID:				L2271474-05				L2271474-06				L2271474-07			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
ANALYTE	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Magnesium, Total					6080	9.31	1.43		1150	8.72	1.34		1920	8.89	1.37	
Manganese, Total	31000	2000			251	0.931	0.148		366	0.872	0.139		375	0.889	0.141	
Mercury, Total	35	10			1.13	0.083	0.054		0.24	0.073	0.047		0.158	0.079	0.052	
Nickel, Total	4400	650			14	2.33	0.225		29	2.18	0.211		10	2.22	0.215	
Potassium, Total					1840	233	13.4		381	218	12.6		1610	222	12.8	
Selenium, Total	1100	26			0.674	J	1.86	0.24	1.17	J	1.74	0.225	0.251	J	1.78	0.229
Silver, Total	1100	84			ND	0.465	0.263		ND	0.436	0.247		ND	0.444	0.252	
Sodium, Total					136	J	186	2.93	203	174	2.75		43.3	J	178	2.8
Thallium, Total	2	14			0.612	J	1.86	0.293	0.819	J	1.74	0.275	0.58	J	1.78	0.28
Vanadium, Total	15	240			33.7	0.931	0.189		25.4	0.872	0.177		28.5	0.889	0.18	
Zinc, Total	66000	12000			355	4.65	0.273		69.3	4.36	0.255		97.7	4.44	0.26	
GENERAL CHEMISTRY																
Solids, Total					83.6	0.1	NA		90.3	0.1	NA		87.8	0.1	NA	

* Comparison is not performed on parameters with non-numeric criteria.

PA-RDCS: Pennsylvania Residential Direct Contact Soil MSCs Criteria per November 20, 2021 State

PA-RSGG: Pennsylvania Used Aquifers Residential Generic Soil to Groundwater MSCs Criteria per N

PA-RSGX: Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater MSCs Criteria per

PA-VI-S-R: Pennsylvania Residential Soil Statewide Health Standard Vapor Intrusion Screening Value

ND - Not detected at the reported detection limit for the sample.

J - The reported result is an estimate. The value is less than the minimum calibration level but greater

P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instr

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB4 (2-15)				SB5 (0-2)				SB5 (2-15)			
	LAB ID:				L2271474-08				L2271474-09				L2271474-10			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
VOLATILE ORGANICS BY EPA 5035																
Dichlorodifluoromethane	1900	100	100	100	ND	0.014	0.0012	ND	0.013	0.0012	ND	0.013	0.0012			
Chloromethane	250		3	0.38	ND	0.0055	0.0013	ND	0.0053	0.0012	ND	0.0053	0.0012			
Vinyl chloride	0.93		0.2	0.027	ND	0.0014	0.00046	ND	0.0013	0.00044	ND	0.0013	0.00045			
Bromomethane	95		1	0.54	ND	0.0027	0.0008	ND	0.0026	0.00076	ND	0.0027	0.00077			
Chloroethane	10000		2100	450	ND	0.0027	0.00062	ND	0.0026	0.00059	ND	0.0027	0.0006			
Trichlorofluoromethane	10000		200	87	ND	0.0055	0.00095	ND	0.0053	0.00091	ND	0.0053	0.00093			
1,1-Dichloroethene	3800		0.7	0.19	ND	0.0014	0.00033	ND	0.0013	0.00031	ND	0.0013	0.00032			
Carbon disulfide	10000		150	130	ND	0.014	0.0062	ND	0.013	0.006	ND	0.013	0.0061			
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	3400		3400	ND	0.0055	0.00095	ND	0.0053	0.00091	ND	0.0053	0.00092			
Methylene chloride	1300		0.5	0.076	ND	0.0069	0.0031	ND	0.0066	0.003	0.0035	J	0.0067	0.003		
Acetone	10000		3100	350	ND	0.034	0.014	ND	0.033	0.013	ND	0.033	0.013			
trans-1,2-Dichloroethene	4400		10	2.3	ND	0.002	0.00019	ND	0.002	0.00018	ND	0.002	0.00018			
Methyl Acetate	10000		3500		ND	0.0055	0.0013	ND	0.0053	0.0012	0.0039	J	0.0053	0.0013		
Methyl tert butyl ether	1700		2	0.28	ND	0.0027	0.00028	ND	0.0026	0.00026	ND	0.0027	0.00027			
1,1-Dichloroethane	280		3.1	0.75	ND	0.0014	0.0002	ND	0.0013	0.00019	ND	0.0013	0.00019			
cis-1,2-Dichloroethene	440		7		ND	0.0014	0.00024	ND	0.0013	0.00023	ND	0.0013	0.00023			
1,2-Dichloroethene, Total					ND	0.0014	0.00019	ND	0.0013	0.00018	ND	0.0013	0.00018			
Cyclohexane	10000	1700		1700	ND	0.014	0.00075	ND	0.013	0.00072	ND	0.013	0.00072			
Bromochloromethane	760		9	1.6	ND	0.0027	0.00028	ND	0.0026	0.00027	ND	0.0027	0.00027			
Chloroform	19		8	2	ND	0.002	0.00019	0.0017	J	0.002	0.00018	0.0026	0.002	0.00019		
Carbon tetrachloride	75		0.5	0.26	ND	0.0014	0.00032	ND	0.0013	0.0003	ND	0.0013	0.00031			
1,1,1-Trichloroethane	10000		20	7.2	ND	0.00069	0.00023	ND	0.00066	0.00022	ND	0.00067	0.00022			
2-Butanone	10000		400	76	ND	0.014	0.003	ND	0.013	0.0029	ND	0.013	0.003			
Benzene	57		0.5	0.13	ND	0.00069	0.00023	ND	0.00066	0.00022	ND	0.00067	0.00022			
1,2-Dichloroethane	17		0.5	0.1	ND	0.0014	0.00035	ND	0.0013	0.00034	ND	0.0013	0.00034			
Methyl cyclohexane					ND	0.0055	0.00083	0.0013	J	0.0053	0.00079	ND	0.0053	0.0008		
Trichloroethene	38		0.5	0.17	ND	0.00069	0.00019	ND	0.00066	0.00018	ND	0.00067	0.00018			
1,2-Dibromoethane	0.12		0.5	0.11	ND	0.0014	0.00017	ND	0.0013	0.00016	ND	0.0013	0.00017			
Bromodichloromethane	12		8	2.7	ND	0.00069	0.00015	ND	0.00066	0.00014	ND	0.00067	0.00014			
1,4-Dioxane	89		0.65	0.36	ND	0.11	0.048	ND	0.1	0.046	ND	0.11	0.047			
cis-1,3-Dichloropropene	110		0.73		ND	0.00069	0.00022	ND	0.00066	0.00021	ND	0.00067	0.00021			
Toluene	10000		100	44	ND	0.0014	0.00074	ND	0.0013	0.00071	ND	0.0013	0.00072			
4-Methyl-2-pentanone	10000		280	43	ND	0.014	0.0018	ND	0.013	0.0017	ND	0.013	0.0017			
Tetrachloroethene	760		0.5	0.43	ND	0.00069	0.00027	ND	0.00066	0.00026	ND	0.00067	0.00026			
trans-1,3-Dichloropropene	110		0.73		ND	0.0014	0.00037	ND	0.0013	0.00036	ND	0.0013	0.00036			
1,3-Dichloropropene, Total	110		0.65	0.12	ND	0.00069	0.00022	ND	0.00066	0.00021	ND	0.00067	0.00021			
1,1,2-Trichloroethane	3.8		0.5	0.15	ND	0.0014	0.00037	ND	0.0013	0.00035	ND	0.0013	0.00036			
Dibromochloromethane	220		8	2.5	ND	0.0014	0.00019	ND	0.0013	0.00018	ND	0.0013	0.00019			
1,2-Dibromoethane	0.74		0.005	0.0012	ND	0.00069	0.0004	ND	0.00066	0.00038	ND	0.00067	0.00039			
2-Hexanone	570		6.3	1.6	ND	0.014	0.0016	ND	0.013	0.0016	ND	0.013	0.0016			
Chlorobenzene	950		10	6.1	ND	0.00069	0.00017	ND	0.00066	0.00017	ND	0.00067	0.00017			
Ethylbenzene	180		70	46	ND	0.0014	0.00019	0.014	0.0013	0.00018	ND	0.0013	0.00019			
p/m-Xylene	1900		1000		ND	0.0027	0.00077	0.057	0.0026	0.00074	ND	0.0027	0.00075			

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB4 (2-15)				SB5 (0-2)				SB5 (2-15)			
	LAB ID:				L2271474-08				L2271474-09				L2271474-10			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
o-Xylene	1900		1000		ND	0.0014	0.0004	0.013	0.0013	0.00038	ND	0.0013	0.00039			
Xylenes, Total	1900		1000	990	ND	0.0014	0.0004	0.07	0.0013	0.00038	ND	0.0013	0.00039			
Styrene	10000	24		24	ND	0.0014	0.00027	ND	0.0013	0.00026	ND	0.0013	0.00026			
Bromoform	400		8	3.5	ND	0.0055	0.00034	ND	0.0053	0.00032	ND	0.0053	0.00033			
Isopropylbenzene	7600	600		600	ND	0.0014	0.00015	ND	0.0013	0.00014	ND	0.0013	0.00014			
1,1,2,2-Tetrachloroethane	7.6		0.084	0.026	ND	0.00069	0.00023	ND	0.00066	0.00022	ND	0.00067	0.00022			
1,3-Dichlorobenzene	10000	61			ND	0.0027	0.0002	ND	0.0026	0.00019	ND	0.0027	0.0002			
1,4-Dichlorobenzene	40	10		10	ND	0.0027	0.00023	ND	0.0026	0.00022	ND	0.0027	0.00023			
1,2-Dichlorobenzene	3800		60	59	ND	0.0027	0.0002	ND	0.0026	0.00019	ND	0.0027	0.00019			
1,2-Dibromo-3-chloropropane	0.029		0.02	0.0092	ND	0.0041	0.0014	ND	0.0039	0.0013	ND	0.004	0.0013			
1,2,4-Trichlorobenzene	39	27		27	ND	0.0027	0.00037	ND	0.0026	0.00036	ND	0.0027	0.00036			
1,2,3-Trichlorobenzene					ND	0.0027	0.00044	ND	0.0026	0.00042	ND	0.0027	0.00043			
Total VOCs					-	-	-	-	0.087	-	-	-	0.01	-	-	-
SEMICOLVATILE ORGANICS BY GC/MS																
Benzaldehyde					ND	0.26	0.053	ND	1.3	0.26	ND	0.27	0.055			
Phenol	3800		200	380	ND	0.2	0.03	ND	0.97	0.15	ND	0.2	0.031			
2-Chlorophenol	1100	4.4			ND	0.2	0.023	ND	0.97	0.11	ND	0.2	0.024			
2-Methylphenol	11000		170		ND	0.2	0.03	ND	0.97	0.15	ND	0.2	0.032			
Bis(2-chloroisopropyl)ether	44		30	8	ND	0.23	0.033	ND	1.2	0.16	ND	0.24	0.035			
Acetophenone	10000		350		ND	0.2	0.024	ND	0.97	0.12	ND	0.2	0.025			
1,4-Dioxane	89		0.65	0.36	ND	0.029	0.0089	ND	0.14	0.044	ND	0.031	0.0093			
3-Methylphenol/4-Methylphenol	1100		17		ND	0.28	0.031	ND	1.4	0.15	ND	0.29	0.032			
Hexachloroethane	46	0.56		0.56	ND	0.16	0.032	ND	0.78	0.16	ND	0.16	0.033			
Nitrobenzene	11		0.12	0.052	ND	0.18	0.029	ND	0.87	0.14	ND	0.18	0.03			
Isophorone	10000		10		ND	0.18	0.025	ND	0.87	0.12	ND	0.18	0.026			
2-Nitrophenol	1800		28		ND	0.42	0.073	ND	2.1	0.36	ND	0.44	0.077			
2,4-Dimethylphenol	4400		69		ND	0.2	0.064	ND	0.97	0.32	ND	0.2	0.067			
Bis(2-chloroethoxy)methane	660		10		ND	0.21	0.02	ND	1	0.097	ND	0.22	0.02			
2,4-Dichlorophenol	660		2		ND	0.18	0.031	ND	0.87	0.16	ND	0.18	0.033			
Naphthalene	13	25		25	ND	0.039	0.024	ND	0.19	0.12	ND	0.041	0.025			
4-Chloroaniline	93	0.42			ND	0.2	0.036	ND	0.97	0.18	ND	0.2	0.037			
Hexachlorobutadiene	220	10			ND	0.2	0.029	ND	0.97	0.14	ND	0.2	0.03			
Caprolactam					ND	0.2	0.059	ND	0.97	0.29	ND	0.2	0.062			
p-Chloro-m-cresol	22000	720			ND	0.2	0.029	ND	0.97	0.14	ND	0.2	0.03			
2-Methylnaphthalene	57	25		25	ND	0.23	0.024	ND	1.2	0.12	ND	0.24	0.025			
Hexachlorocyclopentadiene	1300	91			ND	0.56	0.18	ND	2.8	0.88	ND	0.58	0.18			
1,2,4,5-Tetrachlorobenzene	66	4.6			ND	0.2	0.02	ND	0.97	0.1	ND	0.2	0.021			
2,4,6-Trichlorophenol	220	10			ND	0.12	0.037	ND	0.58	0.18	ND	0.12	0.039			
2,4,5-Trichlorophenol	22000	2100			ND	0.2	0.037	ND	0.97	0.18	ND	0.2	0.039			
Biphenyl	8.2	0.37			ND	0.44	0.025	ND	2.2	0.13	ND	0.47	0.026			
2-Chloronaphthalene	18000	6000			ND	0.2	0.019	ND	0.97	0.096	ND	0.2	0.02			
2-Nitroaniline	0.95		0.011	0.83	ND	0.2	0.038	ND	0.97	0.19	ND	0.2	0.039			
Dimethyl phthalate					ND	0.2	0.041	ND	0.97	0.2	ND	0.2	0.043			
2,6-Dinitrotoluene	12		0.043		ND	0.2	0.034	ND	0.97	0.17	ND	0.2	0.035			

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB4 (2-15)				SB5 (0-2)				SB5 (2-15)			
	LAB ID:				L2271474-08				L2271474-09				L2271474-10			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
Acenaphthylene	13000	2400			ND	0.16	0.03	0.48	J	0.78	0.15	ND	0.16	0.032		
3-Nitroaniline					ND	0.2	0.037	ND		0.97	0.18	ND	0.2	0.038		
Acenaphthene	13000	2600			ND	0.16	0.02	0.19	J	0.78	0.1	ND	0.16	0.021		
2,4-Dinitrophenol	440		6.9		ND	0.94	0.091	ND		4.6	0.45	ND	0.98	0.095		
4-Nitrophenol	1800		6		ND	0.27	0.08	ND		1.4	0.4	ND	0.29	0.083		
2,4-Dinitrotoluene	60		0.21		ND	0.2	0.039	ND		0.97	0.19	ND	0.2	0.041		
Dibenzofuran	220	90			ND	0.2	0.018	0.12	J	0.97	0.092	ND	0.2	0.019		
2,3,4,6-Tetrachlorophenol	6600	1600			ND	0.2	0.039	ND		0.97	0.2	ND	0.2	0.041		
Diethyl phthalate	10000		2800		ND	0.2	0.018	ND		0.97	0.09	ND	0.2	0.019		
Fluorene	8800	2800			ND	0.2	0.019	0.27	J	0.97	0.094	ND	0.2	0.02		
4-Chlorophenyl phenyl ether					ND	0.2	0.021	ND		0.97	0.1	ND	0.2	0.022		
4-Nitroaniline	880		3.3		ND	0.2	0.081	ND		0.97	0.4	ND	0.2	0.085		
4,6-Dinitro-o-cresol					ND	0.51	0.094	ND		2.5	0.46	ND	0.53	0.098		
NDPA/DPA	170	3			ND	0.16	0.022	ND		0.78	0.11	ND	0.16	0.023		
4-Bromophenyl phenyl ether					ND	0.2	0.03	ND		0.97	0.15	ND	0.2	0.031		
Hexachlorobenzene	12	0.96			ND	0.12	0.022	ND		0.58	0.11	ND	0.12	0.023		
Pentachlorophenol	47	5			ND	0.16	0.043	ND		0.78	0.21	ND	0.16	0.045		
Atrazine	81		0.3		ND	0.16	0.068	ND		0.78	0.34	ND	0.16	0.072		
Phenanthrene	66000	10000			0.1	J	0.12	0.024	3.9	0.58	0.12	ND	0.12	0.025		
Anthracene	66000	350			ND	0.12	0.038	0.77		0.58	0.19	ND	0.12	0.04		
Carbazole	930	21			ND	0.2	0.019	0.23	J	0.97	0.094	ND	0.2	0.02		
Di-n-butylphthalate	10000	1400			ND	0.2	0.037	ND		0.97	0.18	ND	0.2	0.039		
Fluoranthene	8800	3200			0.14		0.12	0.022	5.7	0.58	0.11	ND	0.12	0.023		
Pyrene	6600	2200			0.11	J	0.12	0.019	5.2	0.58	0.096	ND	0.12	0.02		
Butyl benzyl phthalate	9800	2900			ND	0.2	0.049	ND		0.97	0.24	ND	0.2	0.052		
3,3'-Dichlorobenzidine	41	7.7			ND	0.2	0.052	ND		0.97	0.26	ND	0.2	0.054		
Benzo(a)anthracene	6.1	26			0.086	J	0.12	0.022	2.6	0.58	0.11	ND	0.12	0.023		
Chrysene	35	220			0.078	J	0.12	0.02	2.5	0.58	0.1	ND	0.12	0.021		
Bis(2-ethylhexyl)phthalate	1300	130			ND	0.2	0.068	ND		0.97	0.34	ND	0.2	0.071		
Di-n-octylphthalate	2200	10000			ND	0.2	0.066	ND		0.97	0.33	ND	0.2	0.07		
Benzo(b)fluoranthene	3.5	25			0.095	J	0.12	0.033	2.8	0.58	0.16	ND	0.12	0.034		
Benzo(k)fluoranthene	3.5	200			0.032	J	0.12	0.031	0.83	0.58	0.16	ND	0.12	0.033		
Benzo(a)pyrene	4.2	46			0.081	J	0.16	0.048	2.2	0.78	0.24	ND	0.16	0.05		
Indeno(1,2,3-cd)pyrene	3.5	1400			0.051	J	0.16	0.027	1.5	0.78	0.14	ND	0.16	0.028		
Dibenzo(a,h)anthracene	1	23			ND	0.12	0.022	0.3	J	0.58	0.11	ND	0.12	0.024		
Benzo(ghi)perylene	13000	180			0.042	J	0.16	0.023	1.3	0.78	0.11	ND	0.16	0.024		
Total SVOCs					0.815	-	-	-	30.89	-	-	-	-	-	-	
SEMOVOLATILE ORGANICS BY GC/MS-SIM																
Bis(2-chloroethyl)ether	1.3		0.015	0.0056	ND	0.039	0.011	ND		0.19	0.054	ND	0.041	0.011		
n-Nitrosodi-n-propylamine	0.22		0.0025		ND	0.039	0.01	ND		0.19	0.051	ND	0.041	0.011		
Total SVOCs					-	-	-	-	-	-	-	-	-	-	-	
PESTICIDES BY GC																
Alpha-BHC	3	0.046			ND	0.00077	0.00017	ND		0.00077	0.00017	ND	0.00079	0.00018		
Lindane	17	0.072			ND	0.00077	0.00034	ND		0.00077	0.00034	ND	0.00079	0.00035		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



					SAMPLE ID:		SB4 (2-15)			SB5 (0-2)			SB5 (2-15)			
					LAB ID:		L2271474-08			L2271474-09			L2271474-10			
					COLLECTION DATE:		12/19/2022			12/19/2022			12/19/2022			
					SAMPLE MATRIX:		SOIL			SOIL			SOIL			
ANALYTE	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Beta-BHC	10	0.21			ND	0.00186	0.0007		ND	0.00185	0.0007		ND	0.00192	0.00072	
Delta-BHC					ND	0.00186	0.00036		ND	0.00185	0.00036		ND	0.00192	0.00037	
Heptachlor	4.1	0.68			ND	0.00093	0.00041		ND	0.00092	0.00041		ND	0.00095	0.00043	
Aldrin	1.1	0.46			ND	0.00186	0.00065		ND	0.00185	0.00065		ND	0.00192	0.00067	
Heptachlor epoxide	2	1.1			ND	0.00349	0.00105		ND	0.00347	0.00104		ND	0.00359	0.00108	
Endosulfan I	1300	110			ND	0.00186	0.00044		ND	0.00185	0.00043		ND	0.00192	0.00045	
trans-Chlordane					ND	0.00232	0.00061		0.00137 JIP	0.00231	0.00061		ND	0.0024	0.00063	
cis-Chlordane					ND	0.00232	0.00064		0.00204 JIP	0.00231	0.00064		ND	0.0024	0.00066	
4,4'-DDE	55	41			ND	0.00186	0.00043		0.00445 IP	0.00185	0.00042		ND	0.00192	0.00044	
Dieldrin	1.2	0.11			ND	0.00116	0.00058		ND	0.00116	0.00057		ND	0.0012	0.00059	
Endrin	66	5.5			ND	0.00077	0.00031		ND	0.00077	0.00031		ND	0.00079	0.00032	
4,4'-DDD	78	30			ND	0.00186	0.00066		0.00067 JIP	0.00185	0.00066		ND	0.00192	0.00068	
Endosulfan II	1300	120			ND	0.00186	0.00062		ND	0.00185	0.00061		ND	0.00192	0.00064	
4,4'-DDT	55	110			ND	0.00349	0.0015		0.0402	0.00347	0.00149		ND	0.00359	0.00154	
Endrin aldehyde					ND	0.00232	0.00081		ND	0.00231	0.0008		ND	0.0024	0.00083	
Methoxychlor	1100	630			ND	0.00349	0.00108		ND	0.00347	0.00108		ND	0.00359	0.00112	
Endosulfan sulfate	1300	70			ND	0.00077	0.00035		ND	0.00077	0.00035		ND	0.00079	0.00036	
Endrin ketone					ND	0.00186	0.00047		ND	0.00185	0.00047		ND	0.00192	0.00049	
Toxaphene	17	1.2			ND	0.0349	0.00977		ND	0.0347	0.00971		ND	0.0359	0.0101	
Chlordane	53	49			ND	0.0155	0.00616		0.0547	0.0154	0.00612		ND	0.016	0.00635	
POLYCHLORINATED BIPHENYLS BY GC																
Aroclor 1016	15	66			ND	0.0373	0.00331		ND	0.0383	0.0034		ND	0.0392	0.00348	
Aroclor 1221	4.7	0.16		0.16	ND	0.0373	0.00374		ND	0.0383	0.00384		ND	0.0392	0.00392	
Aroclor 1232	9.3	0.13		0.14	ND	0.0373	0.00791		ND	0.0383	0.00812		ND	0.0392	0.0083	
Aroclor 1242	9.3	4			ND	0.0373	0.00503		ND	0.0383	0.00517		ND	0.0392	0.00528	
Aroclor 1248	9.3	16			ND	0.0373	0.0056		ND	0.0383	0.00575		ND	0.0392	0.00587	
Aroclor 1254	4.4	140			ND	0.0373	0.00408		ND	0.0383	0.00419		ND	0.0392	0.00428	
Aroclor 1260	9.3	150			ND	0.0373	0.0069		ND	0.0383	0.00708		ND	0.0392	0.00724	
Aroclor 1262					ND	0.0373	0.00474		ND	0.0383	0.00487		ND	0.0392	0.00497	
Aroclor 1268					ND	0.0373	0.00387		ND	0.0383	0.00397		ND	0.0392	0.00406	
PCBs, Total					ND	0.0373	0.00331		ND	0.0383	0.0034		ND	0.0392	0.00348	
TOTAL METALS																
Aluminum, Total					5870	9.36	2.52		9390	9.18	2.48		24400	9.57	2.58	
Antimony, Total	88	27			ND	4.68	0.355		ND	4.59	0.349		ND	4.79	0.364	
Arsenic, Total	12	29			5.2	0.936	0.194		7.71	0.918	0.191		1.4	0.957	0.199	
Barium, Total	44000	8200			70	0.936	0.163		56.5	0.918	0.16		138	0.957	0.166	
Beryllium, Total	440	320			0.29	J	0.468	0.031	0.653	0.459	0.03		0.718	0.479	0.032	
Cadmium, Total	110	38			0.918	J	0.936	0.092	0.109	J	0.918	0.09	ND	0.957	0.094	
Calcium, Total					1130	9.36	3.27		1790	9.18	3.21		3450	9.57	3.35	
Chromium, Total					12	0.936	0.09		23.4	0.918	0.088		33.5	0.957	0.092	
Cobalt, Total	66	45			8.64	1.87	0.155		5.58	1.84	0.152		15.5	1.91	0.159	
Copper, Total	7200	43000			18	0.936	0.241		16.5	0.918	0.237		41.8	0.957	0.247	
Iron, Total	150000				16600	4.68	0.845		21600	4.59	0.829		31200	4.79	0.864	
Lead, Total	500	450			255	4.68	0.251		37	4.59	0.246		20.8	4.79	0.256	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:		SB4 (2-15)				SB5 (0-2)				SB5 (2-15)					
	LAB ID:		L2271474-08				L2271474-09				L2271474-10					
	COLLECTION DATE:		12/19/2022				12/19/2022				12/19/2022					
	SAMPLE MATRIX:		SOIL				SOIL				SOIL					
ANALYTE	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Magnesium, Total					839	9.36	1.44		2590	9.18	1.41		8770	9.57	1.47	
Manganese, Total	31000	2000			445	0.936	0.149		227	0.918	0.146		444	0.957	0.152	
Mercury, Total	35	10			2.71	0.081	0.053		0.062	J	0.078	0.051	ND	0.081	0.053	
Nickel, Total	4400	650			5.88	2.34	0.226		10.2	2.3	0.222		24.6	2.39	0.232	
Potassium, Total					582	234	13.5		913	230	13.2		8340	239	13.8	
Selenium, Total	1100	26			ND	1.87	0.241		ND	1.84	0.237		ND	1.91	0.247	
Silver, Total	1100	84			ND	0.468	0.265		ND	0.459	0.26		ND	0.479	0.271	
Sodium, Total					40.3	J	187	2.95	45.4	J	184	2.89	210	191	3.02	
Thallium, Total	2	14			0.54	J	1.87	0.295	0.354	J	1.84	0.289	1.56	J	1.91	0.302
Vanadium, Total	15	240			18.4	0.936	0.19		29	0.918	0.186		47.7	0.957	0.194	
Zinc, Total	66000	12000			901	4.68	0.274		65.9	4.59	0.269		107	4.79	0.28	
GENERAL CHEMISTRY																
Solids, Total					84.3	0.1	NA		84.6	0.1	NA		80.3	0.1	NA	

* Comparison is not performed on parameters with non-numeric criteria.

PA-RDCS: Pennsylvania Residential Direct Contact Soil MSCs Criteria per November 20, 2021 State

PA-RSGG: Pennsylvania Used Aquifers Residential Generic Soil to Groundwater MSCs Criteria per N

PA-RSGX: Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater MSCs Criteria per

PA-VI-S-R: Pennsylvania Residential Soil Statewide Health Standard Vapor Intrusion Screening Value

ND - Not detected at the reported detection limit for the sample.

J - The reported result is an estimate. The value is less than the minimum calibration level but greater

P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instr

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB6 (0-2)				SB6 (2-15)				SB7 (0-2)					
	LAB ID:				L2271474-11				L2271474-12				L2271474-13					
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022					
	SAMPLE MATRIX:				SOIL				SOIL				SOIL					
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)														
VOLATILE ORGANICS BY EPA 5035																		
Dichlorodifluoromethane	1900	100	100	100	ND	0.02	0.0018	ND	0.014	0.0013	ND	0.011	0.001					
Chloromethane	250		3	0.38	ND	0.008	0.0019	ND	0.0056	0.0013	ND	0.0046	0.0011					
Vinyl chloride	0.93		0.2	0.027	ND	0.002	0.00067	ND	0.0014	0.00046	ND	0.0011	0.00038					
Bromomethane	95		1	0.54	ND	0.004	0.0012	ND	0.0028	0.00081	ND	0.0023	0.00066					
Chloroethane	10000		2100	450	ND	0.004	0.0009	ND	0.0028	0.00063	ND	0.0023	0.00052					
Trichlorofluoromethane	10000		200	87	ND	0.008	0.0014	ND	0.0056	0.00097	ND	0.0046	0.00079					
1,1-Dichloroethene	3800		0.7	0.19	ND	0.002	0.00048	ND	0.0014	0.00033	ND	0.0011	0.00027					
Carbon disulfide	10000		150	130	ND	0.02	0.0091	ND	0.014	0.0063	ND	0.011	0.0052					
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	3400		3400	ND	0.008	0.0014	ND	0.0056	0.00096	ND	0.0046	0.00079					
Methylene chloride	1300		0.5	0.076	ND	0.01	0.0046	ND	0.007	0.0032	ND	0.0057	0.0026					
Acetone	10000		3100	350	0.051	0.05	0.02	ND	0.035	0.014	ND	0.028	0.011					
trans-1,2-Dichloroethene	4400		10	2.3	ND	0.003	0.00027	ND	0.0021	0.00019	ND	0.0017	0.00016					
Methyl Acetate	10000		3500		0.0019	J	0.008	0.0019	0.0019	J	0.0056	0.0013	ND	0.0046	0.0011			
Methyl tert butyl ether	1700		2	0.28	ND	0.004	0.0004	ND	0.0028	0.00028	ND	0.0023	0.00023					
1,1-Dichloroethane	280		3.1	0.75	ND	0.002	0.00029	ND	0.0014	0.0002	ND	0.0011	0.00016					
cis-1,2-Dichloroethene	440		7		ND	0.002	0.00035	ND	0.0014	0.00024	ND	0.0011	0.0002					
1,2-Dichloroethene, Total					ND	0.002	0.00027	ND	0.0014	0.00019	ND	0.0011	0.00016					
Cyclohexane	10000	1700		1700	ND	0.02	0.0011	ND	0.014	0.00076	ND	0.011	0.00062					
Bromochloromethane	760		9	1.6	ND	0.004	0.00041	ND	0.0028	0.00028	ND	0.0023	0.00023					
Chloroform	19		8	2	ND	0.003	0.00028	ND	0.0021	0.00019	ND	0.0017	0.00016					
Carbon tetrachloride	75		0.5	0.26	ND	0.002	0.00046	ND	0.0014	0.00032	ND	0.0011	0.00026					
1,1,1-Trichloroethane	10000		20	7.2	ND	0.001	0.00033	ND	0.0007	0.00023	ND	0.00057	0.00019					
2-Butanone	10000		400	76	ND	0.02	0.0044	ND	0.014	0.0031	ND	0.011	0.0025					
Benzene	57		0.5	0.13	ND	0.001	0.00033	ND	0.0007	0.00023	ND	0.00057	0.00019					
1,2-Dichloroethane	17		0.5	0.1	ND	0.002	0.00051	ND	0.0014	0.00036	ND	0.0011	0.00029					
Methyl cyclohexane					ND	0.008	0.0012	ND	0.0056	0.00084	ND	0.0046	0.00069					
Trichloroethene	38		0.5	0.17	ND	0.001	0.00027	ND	0.0007	0.00019	ND	0.00057	0.00016					
1,2-Dichloropropane	0.12		0.5	0.11	ND	0.002	0.00025	ND	0.0014	0.00017	ND	0.0011	0.00014					
Bromodichloromethane	12		8	2.7	ND	0.001	0.00022	ND	0.0007	0.00015	ND	0.00057	0.00012					
1,4-Dioxane	89		0.65	0.36	ND	0.16	0.07	ND	0.11	0.049	ND	0.091	0.04					
cis-1,3-Dichloropropene	110		0.73		ND	0.001	0.00032	ND	0.0007	0.00022	ND	0.00057	0.00018					
Toluene	10000		100	44	ND	0.002	0.0011	ND	0.0014	0.00076	ND	0.0011	0.00062					
4-Methyl-2-pentanone	10000		280	43	ND	0.02	0.0026	ND	0.014	0.0018	ND	0.011	0.0015					
Tetrachloroethene	760		0.5	0.43	ND	0.001	0.00039	ND	0.0007	0.00027	ND	0.00057	0.00022					
trans-1,3-Dichloropropene	110		0.73		ND	0.002	0.00055	ND	0.0014	0.00038	ND	0.0011	0.00031					
1,3-Dichloropropene, Total	110		0.65	0.12	ND	0.001	0.00032	ND	0.0007	0.00022	ND	0.00057	0.00018					
1,1,2-Trichloroethane	3.8		0.5	0.15	ND	0.002	0.00053	ND	0.0014	0.00037	ND	0.0011	0.0003					
Dibromochloromethane	220		8	2.5	ND	0.002	0.00028	ND	0.0014	0.00019	ND	0.0011	0.00016					
1,2-Dibromoethane	0.74		0.005	0.0012	ND	0.001	0.00059	ND	0.0007	0.00041	ND	0.00057	0.00033					
2-Hexanone	570		6.3	1.6	ND	0.02	0.0024	ND	0.014	0.0016	ND	0.011	0.0013					
Chlorobenzene	950		10	6.1	ND	0.001	0.00025	ND	0.0007	0.00018	ND	0.00057	0.00014					
Ethylbenzene	180		70	46	0.0012	J	0.002	0.00028	ND	0.0014	0.0002	ND	0.0011	0.00016				
p/m-Xylene	1900		1000		0.0064		0.004	0.0011	ND	0.0028	0.00078	ND	0.0023	0.00064				

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB6 (0-2)				SB6 (2-15)				SB7 (0-2)			
	LAB ID:				L2271474-11				L2271474-12				L2271474-13			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
o-Xylene	1900		1000		0.002	0.002	0.00058	ND	0.0014	0.0004	ND	0.0011	0.00033			
Xylenes, Total	1900		1000	990	0.0084	0.002	0.00058	ND	0.0014	0.0004	ND	0.0011	0.00033			
Styrene	10000	24		24	ND	0.002	0.00039	ND	0.0014	0.00027	ND	0.0011	0.00022			
Bromoform	400		8	3.5	ND	0.008	0.00049	ND	0.0056	0.00034	ND	0.0046	0.00028			
Isopropylbenzene	7600	600		600	ND	0.002	0.00022	ND	0.0014	0.00015	ND	0.0011	0.00012			
1,1,2,2-Tetrachloroethane	7.6		0.084	0.026	ND	0.001	0.00033	ND	0.0007	0.00023	ND	0.00057	0.00019			
1,3-Dichlorobenzene	10000	61			ND	0.004	0.0003	ND	0.0028	0.0002	ND	0.0023	0.00017			
1,4-Dichlorobenzene	40	10		10	ND	0.004	0.00034	ND	0.0028	0.00024	ND	0.0023	0.0002			
1,2-Dichlorobenzene	3800		60	59	ND	0.004	0.00029	ND	0.0028	0.0002	ND	0.0023	0.00016			
1,2-Dibromo-3-chloropropane	0.029		0.02	0.0092	ND	0.006	0.002	ND	0.0042	0.0014	ND	0.0034	0.0011			
1,2,4-Trichlorobenzene	39	27		27	ND	0.004	0.00054	ND	0.0028	0.00038	ND	0.0023	0.00031			
1,2,3-Trichlorobenzene					ND	0.004	0.00064	ND	0.0028	0.00045	ND	0.0023	0.00037			
Total VOCs					0.0625	-	-	-	0.0019	-	-	-	-	-	-	-
SEMICOLVATILE ORGANICS BY GC/MS																
Benzaldehyde					ND	1.1	0.23	ND	0.24	0.049	0.33	J	1.2	0.25		
Phenol	3800		200	380	ND	0.87	0.13	ND	0.18	0.027	0.22	J	0.92	0.14		
2-Chlorophenol	1100	4.4			ND	0.87	0.1	ND	0.18	0.021	ND	0.92	0.11			
2-Methylphenol	11000		170		ND	0.87	0.13	ND	0.18	0.028	ND	0.92	0.14			
Bis(2-chloroisopropyl)ether	44		30	8	ND	1	0.15	ND	0.22	0.031	ND	1.1	0.16			
Acetophenone	10000		350		ND	0.87	0.11	ND	0.18	0.022	ND	0.92	0.11			
1,4-Dioxane	89		0.65	0.36	ND	0.13	0.04	ND	0.027	0.0083	ND	0.14	0.042			
3-Methylphenol/4-Methylphenol	1100		17		ND	1.2	0.14	ND	0.26	0.028	0.33	J	1.3	0.14		
Hexachloroethane	46	0.56		0.56	ND	0.69	0.14	ND	0.14	0.029	ND	0.74	0.15			
Nitrobenzene	11		0.12	0.052	ND	0.78	0.13	ND	0.16	0.027	ND	0.83	0.14			
Isophorone	10000		10		ND	0.78	0.11	ND	0.16	0.024	ND	0.83	0.12			
2-Nitrophenol	1800		28		ND	1.9	0.33	ND	0.39	0.068	ND	2	0.35			
2,4-Dimethylphenol	4400		69		ND	0.87	0.29	ND	0.18	0.06	ND	0.92	0.3			
Bis(2-chloroethoxy)methane	660		10		ND	0.94	0.087	ND	0.2	0.018	ND	1	0.092			
2,4-Dichlorophenol	660		2		ND	0.78	0.14	ND	0.16	0.029	ND	0.83	0.15			
Naphthalene	13	25		25	0.41	0.17	0.1	ND	0.036	0.022	1.4	0.18	0.11			
4-Chloroaniline	93	0.42			ND	0.87	0.16	ND	0.18	0.033	ND	0.92	0.17			
Hexachlorobutadiene	220	10			ND	0.87	0.13	ND	0.18	0.027	ND	0.92	0.14			
Caprolactam					ND	0.87	0.26	ND	0.18	0.055	ND	0.92	0.28			
p-Chloro-m-cresol	22000	720			ND	0.87	0.13	ND	0.18	0.027	ND	0.92	0.14			
2-Methylnaphthalene	57	25		25	0.19	J	1	0.1	ND	0.22	0.022	0.97	J	1.1	0.11	
Hexachlorocyclopentadiene	1300	91			ND	2.5	0.79	ND	0.52	0.16	ND	2.6	0.84			
1,2,4,5-Tetrachlorobenzene	66	4.6			ND	0.87	0.091	ND	0.18	0.019	ND	0.92	0.096			
2,4,6-Trichlorophenol	220	10			ND	0.52	0.16	ND	0.11	0.034	ND	0.55	0.17			
2,4,5-Trichlorophenol	22000	2100			ND	0.87	0.17	ND	0.18	0.035	ND	0.92	0.18			
Biphenyl	8.2	0.37			ND	2	0.11	ND	0.41	0.024	0.34	J	2.1	0.12		
2-Chloronaphthalene	18000	6000			ND	0.87	0.086	ND	0.18	0.018	ND	0.92	0.092			
2-Nitroaniline	0.95		0.011	0.83	ND	0.87	0.17	ND	0.18	0.035	ND	0.92	0.18			
Dimethyl phthalate					ND	0.87	0.18	ND	0.18	0.038	ND	0.92	0.19			
2,6-Dinitrotoluene	12		0.043		ND	0.87	0.15	ND	0.18	0.031	ND	0.92	0.16			

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB6 (0-2)				SB6 (2-15)				SB7 (0-2)			
	LAB ID:				L2271474-11				L2271474-12				L2271474-13			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
Acenaphthylene	13000	2400			0.83	0.69	0.13	ND	0.14	0.028	5.1	0.74	0.14			
3-Nitroaniline					ND	0.87	0.16	ND	0.18	0.034	ND	0.92	0.17			
Acenaphthene	13000	2600			0.64	J	0.69	0.09	ND	0.14	0.019	3.8	0.74	0.096		
2,4-Dinitrophenol	440		6.9		ND	4.2	0.4	ND	0.87	0.085	ND	4.4	0.43			
4-Nitrophenol	1800		6		ND	1.2	0.35	ND	0.25	0.074	ND	1.3	0.38			
2,4-Dinitrotoluene	60		0.21		ND	0.87	0.17	ND	0.18	0.036	ND	0.92	0.18			
Dibenzofuran	220	90			0.38	J	0.87	0.082	ND	0.18	0.017	4	0.92	0.087		
2,3,4,6-Tetrachlorophenol	6600	1600			ND	0.87	0.18	ND	0.18	0.037	ND	0.92	0.19			
Diethyl phthalate	10000		2800		ND	0.87	0.08	ND	0.18	0.017	ND	0.92	0.085			
Fluorene	8800	2800			0.66	J	0.87	0.084	ND	0.18	0.018	4.2	0.92	0.09		
4-Chlorophenyl phenyl ether					ND	0.87	0.093	ND	0.18	0.019	ND	0.92	0.099			
4-Nitroaniline	880		3.3		ND	0.87	0.36	ND	0.18	0.075	ND	0.92	0.38			
4,6-Dinitro-o-cresol					ND	2.2	0.42	ND	0.47	0.087	ND	2.4	0.44			
NDPA/DPA	170	3			ND	0.69	0.099	ND	0.14	0.021	ND	0.74	0.1			
4-Bromophenyl phenyl ether					ND	0.87	0.13	ND	0.18	0.028	ND	0.92	0.14			
Hexachlorobenzene	12	0.96			ND	0.52	0.097	ND	0.11	0.02	ND	0.55	0.1			
Pentachlorophenol	47	5			ND	0.69	0.19	ND	0.14	0.04	ND	0.74	0.2			
Atrazine	81		0.3		ND	0.69	0.3	ND	0.14	0.064	ND	0.74	0.32			
Phenanthrene	66000	10000			8.2	0.52	0.1	ND	0.11	0.022	52	E	0.55	0.11		
Anthracene	66000	350			2.2	0.52	0.17	ND	0.11	0.035	14	0.55	0.18			
Carbazole	930	21			1.2	0.87	0.084	ND	0.18	0.018	5	0.92	0.09			
Di-n-butylphthalate	10000	1400			ND	0.87	0.16	ND	0.18	0.034	ND	0.92	0.17			
Fluoranthene	8800	3200			14	0.52	0.1	ND	0.11	0.021	60	E	0.55	0.1		
Pyrene	6600	2200			13	0.52	0.086	ND	0.11	0.018	54	E	0.55	0.092		
Butyl benzyl phthalate	9800	2900			ND	0.87	0.22	ND	0.18	0.046	ND	0.92	0.23			
3,3'-Dichlorobenzidine	41	7.7			ND	0.87	0.23	ND	0.18	0.048	ND	0.92	0.24			
Benzo(a)anthracene	6.1	26			9.2	0.52	0.098	ND	0.11	0.02	37	0.55	0.1			
Chrysene	35	220			9.1	0.52	0.09	ND	0.11	0.019	33	0.55	0.096			
Bis(2-ethylhexyl)phthalate	1300	130			ND	0.87	0.3	ND	0.18	0.063	ND	0.92	0.32			
Di-n-octylphthalate	2200	10000			ND	0.87	0.3	ND	0.18	0.062	ND	0.92	0.31			
Benzo(b)fluoranthene	3.5	25			14	0.52	0.15	ND	0.11	0.031	37	0.55	0.16			
Benzo(k)fluoranthene	3.5	200			4.6	0.52	0.14	ND	0.11	0.029	9.5	0.55	0.15			
Benzo(a)pyrene	4.2	46			12	0.69	0.21	ND	0.14	0.044	27	0.74	0.22			
Indeno(1,2,3-cd)pyrene	3.5	1400			11	0.69	0.12	ND	0.14	0.025	20	0.74	0.13			
Dibenzo(a,h)anthracene	1	23			2.2	0.52	0.1	ND	0.11	0.021	4.4	0.55	0.11			
Benzo(ghi)perylene	13000	180			9.3	0.69	0.1	ND	0.14	0.021	16	0.74	0.11			
Total SVOCs					113.11	-	-	-	-	-	389.59	-	-	-		
SEMICVOLATILE ORGANICS BY GC/MS-SIM																
Bis(2-chloroethyl)ether	1.3		0.015	0.0056	ND	0.17	0.048	ND	0.036	0.01	ND	0.18	0.051			
n-Nitrosodi-n-propylamine	0.22		0.0025		ND	0.17	0.046	ND	0.036	0.0095	ND	0.18	0.048			
Total SVOCs					-	-	-	-	-	-	-	-	-	-	-	
PESTICIDES BY GC																
Alpha-BHC	3	0.046			ND	0.00067	0.00015	ND	0.00071	0.00016	ND	0.00073	0.00016			
Lindane	17	0.072			ND	0.00067	0.0003	ND	0.00071	0.00032	ND	0.00073	0.00032			

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



					SAMPLE ID:		SB6 (0-2)			SB6 (2-15)			SB7 (0-2)			
					LAB ID:		L2271474-11			L2271474-12			L2271474-13			
					COLLECTION DATE:		12/19/2022			12/19/2022			12/19/2022			
					SAMPLE MATRIX:		SOIL			SOIL			SOIL			
ANALYTE	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Beta-BHC	10	0.21			ND	0.00163	0.00061		ND	0.00172	0.00065		ND	0.00175	0.00066	
Delta-BHC					ND	0.00163	0.00032		ND	0.00172	0.00033		ND	0.00175	0.00034	
Heptachlor	4.1	0.68			ND	0.00081	0.00036		ND	0.00085	0.00038		ND	0.00087	0.00039	
Aldrin	1.1	0.46			0.00057	J	0.00163	0.00057	ND	0.00172	0.0006		ND	0.00175	0.00061	
Heptachlor epoxide	2	1.1			ND	0.00305	0.00091		ND	0.00322	0.00096		ND	0.00329	0.00098	
Endosulfan I	1300	110			ND	0.00163	0.00038		ND	0.00172	0.0004		ND	0.00175	0.00041	
trans-Chlordane					0.00158	JP	0.00204	0.00053	ND	0.00214	0.00056		ND	0.00219	0.00057	
cis-Chlordane					0.00243	IP	0.00204	0.00056	ND	0.00214	0.00059		ND	0.00219	0.00061	
4,4'-DDE	55	41			0.00267	IP	0.00163	0.00037	ND	0.00172	0.00039	0.345	P	0.00877	0.00203	
Dieldrin	1.2	0.11			0.00269		0.00102	0.0005	ND	0.00107	0.00053		ND	0.0011	0.00054	
Endrin	66	5.5			ND	0.00067	0.00027		ND	0.00071	0.00029		ND	0.00073	0.0003	
4,4'-DDD	78	30			ND	0.00163	0.00058		ND	0.00172	0.00061	0.0322		0.00175	0.00062	
Endosulfan II	1300	120			ND	0.00163	0.00054		ND	0.00172	0.00057		ND	0.00175	0.00058	
4,4'-DDT	55	110			0.00444	IP	0.00305	0.00131	ND	0.00322	0.00138	0.257		0.0164	0.00705	
Endrin aldehyde					ND	0.00204	0.00071		ND	0.00214	0.00075		ND	0.00219	0.00076	
Methoxychlor	1100	630			ND	0.00305	0.00095		ND	0.00322	0.001		ND	0.00329	0.00102	
Endosulfan sulfate	1300	70			ND	0.00067	0.00031		ND	0.00071	0.00032		ND	0.00073	0.00033	
Endrin ketone					ND	0.00163	0.00041		ND	0.00172	0.00044		ND	0.00175	0.00045	
Toxaphene	17	1.2			ND	0.0305	0.00855		ND	0.0322	0.00901		ND	0.0329	0.00921	
Chlordane	53	49			0.0225		0.0136	0.00539	ND	0.0143	0.00568		ND	0.0146	0.00581	
POLYCHLORINATED BIPHENYLS BY GC																
Aroclor 1016	15	66			ND	0.0337	0.00299		ND	0.035	0.0031		ND	0.0368	0.00327	
Aroclor 1221	4.7	0.16			0.16	ND	0.0337	0.00338	ND	0.035	0.0035		ND	0.0368	0.00369	
Aroclor 1232	9.3	0.13			0.14	ND	0.0337	0.00714	ND	0.035	0.00741		ND	0.0368	0.0078	
Aroclor 1242	9.3	4			ND	0.0337	0.00454		ND	0.035	0.00471		ND	0.0368	0.00496	
Aroclor 1248	9.3	16			ND	0.0337	0.00505		ND	0.035	0.00525		ND	0.0368	0.00552	
Aroclor 1254	4.4	140			ND	0.0337	0.00368		ND	0.035	0.00383		ND	0.0368	0.00402	
Aroclor 1260	9.3	150			ND	0.0337	0.00622		ND	0.035	0.00646	0.00902	J	0.0368	0.0068	
Aroclor 1262					ND	0.0337	0.00428		ND	0.035	0.00444		ND	0.0368	0.00467	
Aroclor 1268					0.00359	J	0.0337	0.00349	ND	0.035	0.00362		ND	0.0368	0.00381	
PCBs, Total					0.00359	J	0.0337	0.00299	ND	0.035	0.0031	0.00902	J	0.0368	0.00327	
TOTAL METALS																
Aluminum, Total					5130	8.36	2.26		5900	8.56	2.31	9440	8.66	2.34		
Antimony, Total	88	27			ND	4.18	0.318		ND	4.28	0.325	ND	43.3	3.29		
Arsenic, Total	12	29			1.78	0.836	0.174		6.22	0.856	0.178	17.8	0.866	0.18		
Barium, Total	44000	8200			62.3	0.836	0.146		39.1	0.856	0.149	184	0.866	0.151		
Beryllium, Total	440	320			0.08	J	0.418	0.028	0.324	J	0.428	0.028	0.314	J	0.433	0.029
Cadmium, Total	110	38			0.147	J	0.836	0.082	0.186	J	0.856	0.084	1.87	0.866	0.085	
Calcium, Total					41200	8.36	2.93		5290	8.56	3	37900	8.66	3.03		
Chromium, Total					11.4	0.836	0.08		13.8	0.856	0.082	21.4	0.866	0.083		
Cobalt, Total	66	45			3.96	1.67	0.139		8.2	1.71	0.142	6.39	1.73	0.144		
Copper, Total	7200	43000			15	0.836	0.216		48	0.856	0.221	36.5	0.866	0.223		
Iron, Total	150000				10300	4.18	0.755		18400	4.28	0.773	102000	43.3	7.82		
Lead, Total	500	450			16.3	4.18	0.224		70.2	4.28	0.229	208	4.33	0.232		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



					SAMPLE ID:		SB6 (0-2)			SB6 (2-15)			SB7 (0-2)			
					LAB ID:		L2271474-11			L2271474-12			L2271474-13			
					COLLECTION DATE:		12/19/2022			12/19/2022			12/19/2022			
					SAMPLE MATRIX:		SOIL			SOIL			SOIL			
ANALYTE	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Magnesium, Total					24100	8.36	1.29		1370	8.56	1.32		6460	8.66	1.33	
Manganese, Total	31000	2000			124	0.836	0.133		299	0.856	0.136		505	0.866	0.138	
Mercury, Total	35	10			ND	0.072	0.047		0.609	0.076	0.05		0.26	0.077	0.05	
Nickel, Total	4400	650			6.4	2.09	0.202		9.7	2.14	0.207		23.2	2.16	0.209	
Potassium, Total					1960	209	12		620	214	12.3		2080	216	12.5	
Selenium, Total	1100	26			ND	1.67	0.216		ND	1.71	0.221		2.42	1.73	0.223	
Silver, Total	1100	84			ND	0.418	0.237		ND	0.428	0.242		ND	0.433	0.245	
Sodium, Total					61.6	J	167	2.63	40	J	171	2.7	201	173	2.73	
Thallium, Total	2	14			0.338	J	1.67	0.263	0.514	J	1.71	0.27	1.07	J	1.73	0.273
Vanadium, Total	15	240			18.1	0.836	0.17		21.9	0.856	0.174		28.4	0.866	0.176	
Zinc, Total	66000	12000			76.8	4.18	0.245		302	4.28	0.251		693	4.33	0.254	
GENERAL CHEMISTRY																
Solids, Total					94.3	0.1	NA		91	0.1	NA		88.6	0.1	NA	

* Comparison is not performed on parameters with non-numeric criteria.

PA-RDCS: Pennsylvania Residential Direct Contact Soil MSCs Criteria per November 20, 2021 State

PA-RSGG: Pennsylvania Used Aquifers Residential Generic Soil to Groundwater MSCs Criteria per N

PA-RSGX: Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater MSCs Criteria per

PA-VI-S-R: Pennsylvania Residential Soil Statewide Health Standard Vapor Intrusion Screening Value

ND - Not detected at the reported detection limit for the sample.

J - The reported result is an estimate. The value is less than the minimum calibration level but greater

P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instr

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB7 (0-2)				SB7 (2-15)				SB8 (0-2)				
	LAB ID:				L2271474-13 R1				L2271474-14				L2271474-15				
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022				
	SAMPLE MATRIX:				SOIL				SOIL				SOIL				
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)													
VOLATILE ORGANICS BY EPA 5035																	
Dichlorodifluoromethane	1900	100	100	100	-	-	-	ND	0.011	0.001	ND	0.016	0.0015				
Chloromethane	250		3	0.38	-	-	-	ND	0.0044	0.001	ND	0.0065	0.0015				
Vinyl chloride	0.93		0.2	0.027	-	-	-	ND	0.0011	0.00037	ND	0.0016	0.00055				
Bromomethane	95		1	0.54	-	-	-	ND	0.0022	0.00064	ND	0.0033	0.00095				
Chloroethane	10000		2100	450	-	-	-	ND	0.0022	0.0005	ND	0.0033	0.00074				
Trichlorofluoromethane	10000		200	87	-	-	-	ND	0.0044	0.00077	ND	0.0065	0.0011				
1,1-Dichloroethene	3800		0.7	0.19	-	-	-	ND	0.0011	0.00026	ND	0.0016	0.00039				
Carbon disulfide	10000		150	130	-	-	-	ND	0.011	0.005	ND	0.016	0.0074				
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	3400		3400	-	-	-	ND	0.0044	0.00076	ND	0.0065	0.0011				
Methylene chloride	1300		0.5	0.076	-	-	-	ND	0.0055	0.0025	0.014	0.0082	0.0037				
Acetone	10000		3100	350	-	-	-	0.011	J	0.028	0.011	0.07	0.041	0.016			
trans-1,2-Dichloroethene	4400		10	2.3	-	-	-	ND	0.0016	0.00015	ND	0.0024	0.00022				
Methyl Acetate	10000		3500		-	-	-	0.0019	J	0.0044	0.001	ND	0.0065	0.0016			
Methyl tert butyl ether	1700		2	0.28	-	-	-	ND	0.0022	0.00022	ND	0.0033	0.00033				
1,1-Dichloroethane	280		3.1	0.75	-	-	-	ND	0.0011	0.00016	ND	0.0016	0.00024				
cis-1,2-Dichloroethene	440		7		-	-	-	ND	0.0011	0.00019	ND	0.0016	0.00029				
1,2-Dichloroethene, Total					-	-	-	ND	0.0011	0.00015	ND	0.0016	0.00022				
Cyclohexane	10000	1700		1700	-	-	-	ND	0.011	0.0006	ND	0.016	0.00089				
Bromochloromethane	760		9	1.6	-	-	-	ND	0.0022	0.00023	ND	0.0033	0.00034				
Chloroform	19		8	2	-	-	-	ND	0.0016	0.00015	ND	0.0024	0.00023				
Carbon tetrachloride	75		0.5	0.26	-	-	-	ND	0.0011	0.00025	ND	0.0016	0.00038				
1,1,1-Trichloroethane	10000		20	7.2	-	-	-	ND	0.00055	0.00018	ND	0.00082	0.00027				
2-Butanone	10000		400	76	-	-	-	ND	0.011	0.0024	ND	0.016	0.0036				
Benzene	57		0.5	0.13	-	-	-	ND	0.00055	0.00018	ND	0.00082	0.00027				
1,2-Dichloroethane	17		0.5	0.1	-	-	-	ND	0.0011	0.00028	ND	0.0016	0.00042				
Methyl cyclohexane					-	-	-	ND	0.0044	0.00066	ND	0.0065	0.00099				
Trichloroethene	38		0.5	0.17	-	-	-	ND	0.00055	0.00015	ND	0.00082	0.00022				
1,2-Dichloropropane	0.12		0.5	0.11	-	-	-	ND	0.0011	0.00014	ND	0.0016	0.0002				
Bromodichloromethane	12		8	2.7	-	-	-	ND	0.00055	0.00012	ND	0.00082	0.00018				
1,4-Dioxane	89		0.65	0.36	-	-	-	ND	0.088	0.039	ND	0.13	0.057				
cis-1,3-Dichloropropene	110		0.73		-	-	-	ND	0.00055	0.00017	ND	0.00082	0.00026				
Toluene	10000		100	44	-	-	-	ND	0.0011	0.0006	ND	0.0016	0.00089				
4-Methyl-2-pentanone	10000		280	43	-	-	-	ND	0.011	0.0014	ND	0.016	0.0021				
Tetrachloroethene	760		0.5	0.43	-	-	-	ND	0.00055	0.00022	ND	0.00082	0.00032				
trans-1,3-Dichloropropene	110		0.73		-	-	-	ND	0.0011	0.0003	ND	0.0016	0.00045				
1,3-Dichloropropene, Total	110		0.65	0.12	-	-	-	ND	0.00055	0.00017	ND	0.00082	0.00026				
1,1,2-Trichloroethane	3.8		0.5	0.15	-	-	-	ND	0.0011	0.00029	ND	0.0016	0.00044				
Dibromochloromethane	220		8	2.5	-	-	-	ND	0.0011	0.00015	ND	0.0016	0.00023				
1,2-Dibromoethane	0.74		0.005	0.0012	-	-	-	ND	0.00055	0.00032	ND	0.00082	0.00048				
2-Hexanone	570		6.3	1.6	-	-	-	ND	0.011	0.0013	ND	0.016	0.0019				
Chlorobenzene	950		10	6.1	-	-	-	ND	0.00055	0.00014	ND	0.00082	0.00021				
Ethylbenzene	180		70	46	-	-	-	ND	0.0011	0.00016	ND	0.0016	0.00023				
p/m-Xylene	1900		1000		-	-	-	ND	0.0022	0.00062	ND	0.0033	0.00092				

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB7 (0-2)				SB7 (2-15)				SB8 (0-2)			
	LAB ID:				L2271474-13 R1				L2271474-14				L2271474-15			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)												
o-Xylene	1900		1000		-	-	-	-	ND	0.0011	0.00032	ND	0.0016	0.00048		
Xylenes, Total	1900		1000	990	-	-	-	-	ND	0.0011	0.00032	ND	0.0016	0.00048		
Styrene	10000	24		24	-	-	-	-	ND	0.0011	0.00022	ND	0.0016	0.00032		
Bromoform	400		8	3.5	-	-	-	-	ND	0.0044	0.00027	ND	0.0065	0.0004		
Isopropylbenzene	7600	600		600	-	-	-	-	ND	0.0011	0.00012	ND	0.0016	0.00018		
1,1,2,2-Tetrachloroethane	7.6		0.084	0.026	-	-	-	-	ND	0.00055	0.00018	ND	0.00082	0.00027		
1,3-Dichlorobenzene	10000	61			-	-	-	-	ND	0.0022	0.00016	ND	0.0033	0.00024		
1,4-Dichlorobenzene	40	10		10	-	-	-	-	ND	0.0022	0.00019	ND	0.0033	0.00028		
1,2-Dichlorobenzene	3800		60	59	-	-	-	-	ND	0.0022	0.00016	ND	0.0033	0.00024		
1,2-Dibromo-3-chloropropane	0.029		0.02	0.0092	-	-	-	-	ND	0.0033	0.0011	ND	0.0049	0.0016		
1,2,4-Trichlorobenzene	39	27		27	-	-	-	-	ND	0.0022	0.0003	ND	0.0033	0.00044		
1,2,3-Trichlorobenzene					-	-	-	-	ND	0.0022	0.00036	ND	0.0033	0.00053		
Total VOCs					-	-	-	-	0.0129	-	-	-	0.084	-	-	
SEMITOLVATILE ORGANICS BY GC/MS																
Benzaldehyde					-	-	-	-	ND	0.23	0.048	ND	0.23	0.047		
Phenol	3800		200	380	-	-	-	-	ND	0.18	0.027	ND	0.17	0.026		
2-Chlorophenol	1100	4.4			-	-	-	-	ND	0.18	0.021	ND	0.17	0.021		
2-Methylphenol	11000		170		-	-	-	-	ND	0.18	0.027	ND	0.17	0.027		
Bis(2-chloroisopropyl)ether	44		30	8	-	-	-	-	ND	0.21	0.03	ND	0.21	0.03		
Acetophenone	10000		350		-	-	-	-	ND	0.18	0.022	ND	0.17	0.022		
1,4-Dioxane	89		0.65	0.36	-	-	-	-	ND	0.026	0.0081	ND	0.026	0.008		
3-Methylphenol/4-Methylphenol	1100		17		-	-	-	-	ND	0.26	0.028	ND	0.25	0.027		
Hexachloroethane	46	0.56		0.56	-	-	-	-	ND	0.14	0.029	ND	0.14	0.028		
Nitrobenzene	11		0.12	0.052	-	-	-	-	ND	0.16	0.026	ND	0.16	0.026		
Isophorone	10000		10		-	-	-	-	ND	0.16	0.023	ND	0.16	0.023		
2-Nitrophenol	1800		28		-	-	-	-	ND	0.38	0.067	ND	0.38	0.066		
2,4-Dimethylphenol	4400		69		-	-	-	-	ND	0.18	0.058	ND	0.17	0.058		
Bis(2-chloroethoxy)methane	660		10		-	-	-	-	ND	0.19	0.018	ND	0.19	0.018		
2,4-Dichlorophenol	660		2		-	-	-	-	ND	0.16	0.028	ND	0.16	0.028		
Naphthalene	13	25		25	-	-	-	-	0.04	0.035	0.022	ND	0.035	0.021		
4-Chloroaniline	93	0.42			-	-	-	-	ND	0.18	0.032	ND	0.17	0.032		
Hexachlorobutadiene	220	10			-	-	-	-	ND	0.18	0.026	ND	0.17	0.026		
Caprolactam					-	-	-	-	ND	0.18	0.054	ND	0.17	0.053		
p-Chloro-m-cresol	22000	720			-	-	-	-	ND	0.18	0.026	ND	0.17	0.026		
2-Methylnaphthalene	57	25		25	-	-	-	-	0.028	J	0.21	0.021	ND	0.21	0.021	
Hexachlorocyclopentadiene	1300	91			-	-	-	-	ND	0.51	0.16	ND	0.5	0.16		
1,2,4,5-Tetrachlorobenzene	66	4.6			-	-	-	-	ND	0.18	0.018	ND	0.17	0.018		
2,4,6-Trichlorophenol	220	10			-	-	-	-	ND	0.11	0.034	ND	0.1	0.033		
2,4,5-Trichlorophenol	22000	2100			-	-	-	-	ND	0.18	0.034	ND	0.17	0.033		
Biphenyl	8.2	0.37			-	-	-	-	ND	0.4	0.023	ND	0.4	0.023		
2-Chloronaphthalene	18000	6000			-	-	-	-	ND	0.18	0.018	ND	0.17	0.017		
2-Nitroaniline	0.95		0.011	0.83	-	-	-	-	ND	0.18	0.034	ND	0.17	0.034		
Dimethyl phthalate					-	-	-	-	ND	0.18	0.037	ND	0.17	0.037		
2,6-Dinitrotoluene	12		0.043		-	-	-	-	ND	0.18	0.03	ND	0.17	0.03		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB7 (0-2)				SB7 (2-15)				SB8 (0-2)							
	LAB ID:				L2271474-13 R1				L2271474-14				L2271474-15							
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022							
	SAMPLE MATRIX:				SOIL				SOIL				SOIL							
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL				
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)																
Acenaphthylene	13000	2400			-	-	-	-	ND	0.14	0.027	ND	0.14	0.027	ND	0.14				
3-Nitroaniline					-	-	-	-	ND	0.18	0.033	ND	0.17	0.033	ND	0.17				
Acenaphthene	13000	2600			-	-	-	-	0.061	J	0.14	0.018	ND	0.14	0.018	ND	0.14			
2,4-Dinitrophenol	440		6.9		-	-	-	-	ND	0.85	0.082	ND	0.84	0.081	ND	0.84				
4-Nitrophenol	1800		6		-	-	-	-	ND	0.25	0.072	ND	0.24	0.071	ND	0.24				
2,4-Dinitrotoluene	60		0.21		-	-	-	-	ND	0.18	0.035	ND	0.17	0.035	ND	0.17				
Dibenzofuran	220	90			-	-	-	-	0.047	J	0.18	0.017	ND	0.17	0.016	ND	0.17			
2,3,4,6-Tetrachlorophenol	6600	1600			-	-	-	-	ND	0.18	0.036	ND	0.17	0.035	ND	0.17				
Diethyl phthalate	10000		2800		-	-	-	-	ND	0.18	0.016	ND	0.17	0.016	ND	0.17				
Fluorene	8800	2800			-	-	-	-	0.069	J	0.18	0.017	ND	0.17	0.017	ND	0.17			
4-Chlorophenyl phenyl ether					-	-	-	-	ND	0.18	0.019	ND	0.17	0.019	ND	0.17				
4-Nitroaniline	880		3.3		-	-	-	-	ND	0.18	0.073	ND	0.17	0.072	ND	0.17				
4,6-Dinitro-o-cresol					-	-	-	-	ND	0.46	0.085	ND	0.45	0.084	ND	0.45				
NDPA/DPA	170	3			-	-	-	-	ND	0.14	0.02	ND	0.14	0.02	ND	0.14				
4-Bromophenyl phenyl ether					-	-	-	-	ND	0.18	0.027	ND	0.17	0.027	ND	0.17				
Hexachlorobenzene	12	0.96			-	-	-	-	ND	0.11	0.02	ND	0.1	0.02	ND	0.1				
Pentachlorophenol	47	5			-	-	-	-	ND	0.14	0.039	ND	0.14	0.038	ND	0.14				
Atrazine	81		0.3		-	-	-	-	ND	0.14	0.062	ND	0.14	0.061	ND	0.14				
Phenanthrene	66000	10000			60	2.8	0.56	0.5	0.11	0.11	0.022	0.16	0.1	0.021	0.16	0.1				
Anthracene	66000	350			-	-	-	-	0.11	0.11	0.034	0.036	J	0.1	0.034	0.036	J	0.1		
Carbazole	930	21			-	-	-	-	0.062	J	0.18	0.017	0.021	J	0.17	0.017	0.021	J	0.17	
Di-n-butylphthalate	10000	1400			-	-	-	-	ND	0.18	0.034	ND	0.17	0.033	ND	0.17	0.033	ND	0.17	
Fluoranthene	8800	3200			72	2.8	0.53	0.44	0.11	0.11	0.02	0.25	0.1	0.02	0.25	0.1	0.02	0.25	0.1	
Pyrene	6600	2200			61	2.8	0.46	0.36	0.11	0.11	0.018	0.21	0.1	0.017	0.21	0.1	0.017	0.21	0.1	
Butyl benzyl phthalate	9800	2900			-	-	-	-	ND	0.18	0.045	ND	0.17	0.044	ND	0.17	0.044	ND	0.17	
3,3'-Dichlorobenzidine	41	7.7			-	-	-	-	ND	0.18	0.047	ND	0.17	0.046	ND	0.17	0.046	ND	0.17	
Benzo(a)anthracene	6.1	26			-	-	-	-	0.21	0.11	0.02	0.12	0.1	0.02	0.12	0.1	0.02	0.12	0.1	
Chrysene	35	220			-	-	-	-	0.18	0.11	0.018	0.12	0.1	0.018	0.12	0.1	0.018	0.12	0.1	
Bis(2-ethylhexyl)phthalate	1300	130			-	-	-	-	ND	0.18	0.061	ND	0.17	0.06	ND	0.17	0.059	ND	0.17	
Di-n-octylphthalate	2200	10000			-	-	-	-	ND	0.18	0.06	ND	0.17	0.059	ND	0.17	0.059	ND	0.17	
Benzo(b)fluoranthene	3.5	25			-	-	-	-	0.19	0.11	0.03	0.13	0.1	0.029	0.13	0.1	0.029	0.13	0.1	
Benzo(k)fluoranthene	3.5	200			-	-	-	-	0.062	J	0.11	0.028	0.044	J	0.1	0.028	0.044	J	0.1	0.028
Benzo(a)pyrene	4.2	46			-	-	-	-	0.15	0.14	0.043	0.1	J	0.14	0.043	0.1	J	0.14	0.043	0.1
Indeno(1,2,3-cd)pyrene	3.5	1400			-	-	-	-	0.079	J	0.14	0.025	0.069	J	0.14	0.024	0.069	J	0.14	0.024
Dibenzo(a,h)anthracene	1	23			-	-	-	-	0.024	J	0.11	0.02	ND	0.1	0.02	ND	0.1	0.02	ND	0.1
Benzo(ghi)perylene	13000	180			-	-	-	-	0.064	J	0.14	0.021	0.061	J	0.14	0.02	0.061	J	0.14	0.02
Total SVOCs					193	-	-	-	2.676	-	-	-	1.321	-	-	-	-	-	-	
SEMOVOLATILE ORGANICS BY GC/MS-SIM																				
Bis(2-chloroethyl)ether	1.3		0.015	0.0056	-	-	-	-	ND	0.035	0.0099	ND	0.035	0.0098	ND	0.035	0.0098	ND	0.035	
n-Nitrosodi-n-propylamine	0.22		0.0025		-	-	-	-	ND	0.035	0.0093	ND	0.035	0.0092	ND	0.035	0.0092	ND	0.035	
Total SVOCs					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PESTICIDES BY GC																				
Alpha-BHC	3	0.046			-	-	-	-	ND	0.00071	0.00016	ND	0.0007	0.00016	ND	0.0007	0.00016	ND	0.0007	
Lindane	17	0.072			-	-	-	-	ND	0.00071	0.00031	ND	0.0007	0.00031	ND	0.0007	0.00031	ND	0.0007	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB7 (0-2)				SB7 (2-15)				SB8 (0-2)				
	LAB ID:				L2271474-13 R1				L2271474-14				L2271474-15				
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022				
	SAMPLE MATRIX:				SOIL				SOIL				SOIL				
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	
Beta-BHC	10	0.21			-	-	-	-	ND	0.00171	0.00064	ND	0.00169	0.00064	ND	0.00064	
Delta-BHC					-	-	-	-	ND	0.00171	0.00033	ND	0.00169	0.00033	ND	0.00033	
Heptachlor	4.1	0.68			-	-	-	-	ND	0.00085	0.00038	ND	0.00084	0.00038	ND	0.00038	
Aldrin	1.1	0.46			-	-	-	-	ND	0.00171	0.0006	ND	0.00169	0.00059	ND	0.00059	
Heptachlor epoxide	2	1.1			-	-	-	-	ND	0.0032	0.00096	ND	0.00318	0.00095	ND	0.00095	
Endosulfan I	1300	110			-	-	-	-	ND	0.00171	0.0004	ND	0.00169	0.0004	ND	0.0004	
trans-Chlordane					-	-	-	-	ND	0.00214	0.00056	ND	0.00212	0.00055	ND	0.00055	
cis-Chlordane					-	-	-	-	ND	0.00214	0.00059	ND	0.00212	0.00059	ND	0.00059	
4,4'-DDE	55	41			0.195	E	0.00175	0.0004	ND	0.00171	0.00039	0.00508	0.00169	0.00039	ND	0.00039	
Dieldrin	1.2	0.11			-	-	-	-	ND	0.00107	0.00053	ND	0.00106	0.00052	ND	0.00052	
Endrin	66	5.5			-	-	-	-	ND	0.00071	0.00029	ND	0.0007	0.00028	ND	0.00028	
4,4'-DDD	78	30			-	-	-	-	ND	0.00171	0.0006	ND	0.00169	0.0006	ND	0.0006	
Endosulfan II	1300	120			-	-	-	-	ND	0.00171	0.00057	ND	0.00169	0.00056	ND	0.00056	
4,4'-DDT	55	110			0.216	E	0.00329	0.00141	ND	0.0032	0.00137	0.0021	J	0.00318	0.00136	ND	0.00136
Endrin aldehyde					-	-	-	-	ND	0.00214	0.00074	ND	0.00212	0.00074	ND	0.00074	
Methoxychlor	1100	630			-	-	-	-	ND	0.0032	0.00099	ND	0.00318	0.00098	ND	0.00098	
Endosulfan sulfate	1300	70			-	-	-	-	ND	0.00071	0.00032	ND	0.0007	0.00032	ND	0.00032	
Endrin ketone					-	-	-	-	ND	0.00171	0.00044	ND	0.00169	0.00043	ND	0.00043	
Toxaphene	17	1.2			-	-	-	-	ND	0.032	0.00897	ND	0.0318	0.00889	ND	0.00889	
Chlordane	53	49			-	-	-	-	ND	0.0142	0.00566	ND	0.0141	0.00561	ND	0.00561	
POLYCHLORINATED BIPHENYLS BY GC																	
Aroclor 1016	15	66			-	-	-	-	ND	0.0352	0.00312	ND	0.035	0.0031	ND	0.0031	
Aroclor 1221	4.7	0.16		0.16	-	-	-	-	ND	0.0352	0.00352	ND	0.035	0.0035	ND	0.0035	
Aroclor 1232	9.3	0.13		0.14	-	-	-	-	ND	0.0352	0.00746	ND	0.035	0.00741	ND	0.00741	
Aroclor 1242	9.3	4			-	-	-	-	ND	0.0352	0.00474	ND	0.035	0.00471	ND	0.00471	
Aroclor 1248	9.3	16			-	-	-	-	ND	0.0352	0.00528	ND	0.035	0.00524	ND	0.00524	
Aroclor 1254	4.4	140			-	-	-	-	ND	0.0352	0.00385	ND	0.035	0.00382	ND	0.00382	
Aroclor 1260	9.3	150			-	-	-	-	ND	0.0352	0.0065	ND	0.035	0.00646	ND	0.00646	
Aroclor 1262					-	-	-	-	ND	0.0352	0.00447	ND	0.035	0.00444	ND	0.00444	
Aroclor 1268					-	-	-	-	ND	0.0352	0.00364	ND	0.035	0.00362	ND	0.00362	
PCBs, Total					-	-	-	-	ND	0.0352	0.00312	ND	0.035	0.0031	ND	0.0031	
TOTAL METALS																	
Aluminum, Total					-	-	-	-	12900	8.41	2.27	4780	8.19	2.21			
Antimony, Total	88	27			-	-	-	-	ND	4.2	0.32	4.55	4.1	0.311			
Arsenic, Total	12	29			-	-	-	-	6.13	0.841	0.175	3.62	0.819	0.17			
Barium, Total	44000	8200			-	-	-	-	61.4	0.841	0.146	48.8	0.819	0.142			
Beryllium, Total	440	320			-	-	-	-	0.52	0.42	0.028	0.351	J	0.41	0.027		
Cadmium, Total	110	38			-	-	-	-	ND	0.841	0.082	ND	0.819	0.08			
Calcium, Total					-	-	-	-	747	8.41	2.94	50400	8.19	2.87			
Chromium, Total					-	-	-	-	24.4	0.841	0.081	14	0.819	0.079			
Cobalt, Total	66	45			-	-	-	-	4.12	1.68	0.14	4.45	1.64	0.136			
Copper, Total	7200	43000			-	-	-	-	10.7	0.841	0.217	40.4	0.819	0.211			
Iron, Total	150000				-	-	-	-	22900	4.2	0.759	7570	4.1	0.74			
Lead, Total	500	450			-	-	-	-	27.8	4.2	0.225	31.6	4.1	0.22			

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB7 (0-2)				SB7 (2-15)				SB8 (0-2)			
	LAB ID:				L2271474-13 R1				L2271474-14				L2271474-15			
	COLLECTION DATE:				12/19/2022				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL				SOIL			
ANALYTE	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Magnesium, Total					-	-	-	-	1760	8.41	1.3	3230	8.19	1.26		
Manganese, Total	31000	2000			-	-	-	-	157	0.841	0.134	101	0.819	0.13		
Mercury, Total	35	10			-	-	-	-	0.326	0.074	0.048	ND	0.072	0.047		
Nickel, Total	4400	650			-	-	-	-	7.7	2.1	0.204	7.54	2.05	0.198		
Potassium, Total					-	-	-	-	662	210	12.1	311	205	11.8		
Selenium, Total	1100	26			-	-	-	-	0.599	J	1.68	0.217	ND	1.64	0.211	
Silver, Total	1100	84			-	-	-	-	ND	0.42	0.238	ND	0.41	0.232		
Sodium, Total					-	-	-	-	34.5	J	168	2.65	82.3	J	164	2.58
Thallium, Total	2	14			-	-	-	-	0.354	J	1.68	0.265	ND	1.64	0.258	
Vanadium, Total	15	240			-	-	-	-	35.9	0.841	0.171	8.2	0.819	0.166		
Zinc, Total	66000	12000			-	-	-	-	24.1	4.2	0.246	116	4.1	0.24		
GENERAL CHEMISTRY																
Solids, Total					-	-	-	-	92.4	0.1	NA	92.9	0.1	NA		

* Comparison is not performed on parameters with non-numeric criteria.

PA-RDCS: Pennsylvania Residential Direct Contact Soil MSCs Criteria per November 20, 2021 Statewide Health Standard

PA-RSGG: Pennsylvania Used Aquifers Residential Generic Soil to Groundwater MSCs Criteria per November 20, 2021 Statewide Health Standard

PA-RSGX: Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater MSCs Criteria per November 20, 2021 Statewide Health Standard

PA-VI-S-R: Pennsylvania Residential Soil Statewide Health Standard Vapor Intrusion Screening Values

ND - Not detected at the reported detection limit for the sample.

J - The reported result is an estimate. The value is less than the minimum calibration level but greater than the maximum calibration level.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB8 (0-2)			SB8 (2-15)				
	LAB ID:				L2271474-15 R1			L2271474-16				
	COLLECTION DATE:				12/19/2022			12/19/2022				
	SAMPLE MATRIX:				SOIL			SOIL				
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)								
VOLATILE ORGANICS BY EPA 5035												
Dichlorodifluoromethane	1900	100	100	100	-	-	-	ND	0.016	0.0014		
Chloromethane	250		3	0.38	-	-	-	ND	0.0063	0.0015		
Vinyl chloride	0.93		0.2	0.027	-	-	-	ND	0.0016	0.00053		
Bromomethane	95		1	0.54	-	-	-	ND	0.0031	0.00091		
Chloroethane	10000		2100	450	-	-	-	ND	0.0031	0.00071		
Trichlorofluoromethane	10000		200	87	-	-	-	ND	0.0063	0.0011		
1,1-Dichloroethene	3800		0.7	0.19	-	-	-	ND	0.0016	0.00037		
Carbon disulfide	10000		150	130	-	-	-	ND	0.016	0.0072		
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	3400		3400	-	-	-	ND	0.0063	0.0011		
Methylene chloride	1300		0.5	0.076	-	-	-	ND	0.0079	0.0036		
Acetone	10000		3100	350	-	-	-	ND	0.039	0.016		
trans-1,2-Dichloroethene	4400		10	2.3	-	-	-	ND	0.0024	0.00022		
Methyl Acetate	10000		3500		-	-	-	ND	0.0063	0.0015		
Methyl tert butyl ether	1700		2	0.28	-	-	-	ND	0.0031	0.00032		
1,1-Dichloroethane	280		3.1	0.75	-	-	-	ND	0.0016	0.00023		
cis-1,2-Dichloroethene	440		7		-	-	-	ND	0.0016	0.00028		
1,2-Dichloroethene, Total					-	-	-	ND	0.0016	0.00022		
Cyclohexane	10000	1700		1700	-	-	-	ND	0.016	0.00086		
Bromochloromethane	760		9	1.6	-	-	-	ND	0.0031	0.00032		
Chloroform	19		8	2	-	-	-	ND	0.0024	0.00022		
Carbon tetrachloride	75		0.5	0.26	-	-	-	ND	0.0016	0.00036		
1,1,1-Trichloroethane	10000		20	7.2	-	-	-	ND	0.00079	0.00026		
2-Butanone	10000		400	76	-	-	-	ND	0.016	0.0035		
Benzene	57		0.5	0.13	-	-	-	ND	0.00079	0.00026		
1,2-Dichloroethane	17		0.5	0.1	-	-	-	ND	0.0016	0.0004		
Methyl cyclohexane					-	-	-	ND	0.0063	0.00095		
Trichloroethene	38		0.5	0.17	-	-	-	ND	0.00079	0.00022		
1,2-Dichloropropane	0.12		0.5	0.11	-	-	-	ND	0.0016	0.0002		
Bromodichloromethane	12		8	2.7	-	-	-	ND	0.00079	0.00017		
1,4-Dioxane	89		0.65	0.36	-	-	-	ND	0.12	0.055		
cis-1,3-Dichloropropene	110		0.73		-	-	-	ND	0.00079	0.00025		
Toluene	10000		100	44	-	-	-	ND	0.0016	0.00085		
4-Methyl-2-pentanone	10000		280	43	-	-	-	ND	0.016	0.002		
Tetrachloroethene	760		0.5	0.43	-	-	-	ND	0.00079	0.00031		
trans-1,3-Dichloropropene	110		0.73		-	-	-	ND	0.0016	0.00043		
1,3-Dichloropropene, Total	110		0.65	0.12	-	-	-	ND	0.00079	0.00025		
1,1,2-Trichloroethane	3.8		0.5	0.15	-	-	-	ND	0.0016	0.00042		
Dibromochloromethane	220		8	2.5	-	-	-	ND	0.0016	0.00022		
1,2-Dibromoethane	0.74		0.005	0.0012	-	-	-	ND	0.00079	0.00046		
2-Hexanone	570		6.3	1.6	-	-	-	ND	0.016	0.0018		
Chlorobenzene	950		10	6.1	-	-	-	ND	0.00079	0.0002		
Ethylbenzene	180		70	46	-	-	-	ND	0.0016	0.00022		
p/m-Xylene	1900		1000		-	-	-	ND	0.0031	0.00088		

Table 1 Soil Analytical Results
 38th and Brown Street
 Philadelphia, Pennsylvania



	SAMPLE ID:				SB8 (0-2)				SB8 (2-15)			
	LAB ID:				L2271474-15 R1				L2271474-16			
	COLLECTION DATE:				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)								
o-Xylene	1900		1000		-	-	-	-	ND	0.0016	0.00046	
Xylenes, Total	1900		1000	990	-	-	-	-	ND	0.0016	0.00046	
Styrene	10000	24		24	-	-	-	-	ND	0.0016	0.00031	
Bromoform	400		8	3.5	-	-	-	-	ND	0.0063	0.00039	
Isopropylbenzene	7600	600		600	-	-	-	-	ND	0.0016	0.00017	
1,1,2,2-Tetrachloroethane	7.6		0.084	0.026	-	-	-	-	ND	0.00079	0.00026	
1,3-Dichlorobenzene	10000	61			-	-	-	-	ND	0.0031	0.00023	
1,4-Dichlorobenzene	40	10		10	-	-	-	-	ND	0.0031	0.00027	
1,2-Dichlorobenzene	3800		60	59	-	-	-	-	ND	0.0031	0.00023	
1,2-Dibromo-3-chloropropane	0.029		0.02	0.0092	-	-	-	-	ND	0.0047	0.0016	
1,2,4-Trichlorobenzene	39	27		27	-	-	-	-	ND	0.0031	0.00043	
1,2,3-Trichlorobenzene					-	-	-	-	ND	0.0031	0.00051	
Total VOCs					-	-	-	-	-	-	-	-
SEMIVOLATILE ORGANICS BY GC/MS												
Benzaldehyde					0.052	J	0.23	0.048	ND	0.27	0.055	
Phenol	3800		200	380	ND	0.18	0.027	ND	0.2	0.031		
2-Chlorophenol	1100	4.4			ND	0.18	0.021	ND	0.2	0.024		
2-Methylphenol	11000		170		ND	0.18	0.027	ND	0.2	0.032		
Bis(2-chloroisopropyl)ether	44		30	8	ND	0.21	0.03	ND	0.24	0.035		
Acetophenone	10000		350		ND	0.18	0.022	ND	0.2	0.025		
1,4-Dioxane	89		0.65	0.36	ND	0.026	0.008	ND	0.031	0.0093		
3-Methylphenol/4-Methylphenol	1100		17		ND	0.25	0.028	ND	0.29	0.032		
Hexachloroethane	46	0.56		0.56	ND	0.14	0.028	ND	0.16	0.033		
Nitrobenzene	11		0.12	0.052	ND	0.16	0.026	ND	0.18	0.03		
Isophorone	10000		10		ND	0.16	0.023	ND	0.18	0.026		
2-Nitrophenol	1800		28		ND	0.38	0.066	ND	0.44	0.077		
2,4-Dimethylphenol	4400		69		ND	0.18	0.058	ND	0.2	0.067		
Bis(2-chloroethoxy)methane	660		10		ND	0.19	0.018	ND	0.22	0.02		
2,4-Dichlorophenol	660		2		ND	0.16	0.028	ND	0.18	0.033		
Naphthalene	13	25		25	0.044		0.022	ND	0.041	0.025		
4-Chloroaniline	93	0.42			ND	0.18	0.032	ND	0.2	0.037		
Hexachlorobutadiene	220	10			ND	0.18	0.026	ND	0.2	0.03		
Caprolactam					ND	0.18	0.054	ND	0.2	0.062		
p-Chloro-m-cresol	22000	720			ND	0.18	0.026	ND	0.2	0.03		
2-Methylnaphthalene	57	25		25	0.023	J	0.21	0.021	ND	0.24	0.025	
Hexachlorocyclopentadiene	1300	91			ND	0.5	0.16	ND	0.58	0.18		
1,2,4,5-Tetrachlorobenzene	66	4.6			ND	0.18	0.018	ND	0.2	0.021		
2,4,6-Trichlorophenol	220	10			ND	0.1	0.033	ND	0.12	0.039		
2,4,5-Trichlorophenol	22000	2100			ND	0.18	0.034	ND	0.2	0.039		
Biphenyl	8.2	0.37			ND	0.4	0.023	ND	0.47	0.026		
2-Chloronaphthalene	18000	6000			ND	0.18	0.018	ND	0.2	0.02		
2-Nitroaniline	0.95		0.011	0.83	ND	0.18	0.034	ND	0.2	0.039		
Dimethyl phthalate					ND	0.18	0.037	ND	0.2	0.043		
2,6-Dinitrotoluene	12		0.043		ND	0.18	0.03	ND	0.2	0.035		

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB8 (0-2)				SB8 (2-15)			
	LAB ID:				L2271474-15 R1				L2271474-16			
	COLLECTION DATE:				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)								
Acenaphthylene	13000	2400			0.084	J	0.14	0.027	ND	0.16	0.032	
3-Nitroaniline					ND		0.18	0.033	ND	0.2	0.038	
Acenaphthene	13000	2600			0.054	J	0.14	0.018	ND	0.16	0.021	
2,4-Dinitrophenol	440		6.9		ND		0.85	0.082	ND	0.98	0.095	
4-Nitrophenol	1800		6		ND		0.25	0.072	ND	0.29	0.083	
2,4-Dinitrotoluene	60		0.21		ND		0.18	0.035	ND	0.2	0.041	
Dibenzofuran	220	90			0.041	J	0.18	0.017	ND	0.2	0.019	
2,3,4,6-Tetrachlorophenol	6600	1600			ND		0.18	0.036	ND	0.2	0.041	
Diethyl phthalate	10000		2800		ND		0.18	0.016	ND	0.2	0.019	
Fluorene	8800	2800			0.07	J	0.18	0.017	ND	0.2	0.02	
4-Chlorophenyl phenyl ether					ND		0.18	0.019	ND	0.2	0.022	
4-Nitroaniline	880		3.3		ND		0.18	0.073	ND	0.2	0.085	
4,6-Dinitro-o-cresol					ND		0.46	0.085	ND	0.53	0.098	
NDPA/DPA	170	3			ND		0.14	0.02	ND	0.16	0.023	
4-Bromophenyl phenyl ether					ND		0.18	0.027	ND	0.2	0.031	
Hexachlorobenzene	12	0.96			ND		0.1	0.02	ND	0.12	0.023	
Pentachlorophenol	47	5			ND		0.14	0.039	ND	0.16	0.045	
Atrazine	81		0.3		ND		0.14	0.062	ND	0.16	0.072	
Phenanthrene	66000	10000			0.79		0.1	0.021	0.052	J	0.12	0.025
Anthracene	66000	350			0.25		0.1	0.034	ND	0.12	0.04	
Carbazole	930	21			0.055	J	0.18	0.017	ND	0.2	0.02	
Di-n-butylphthalate	10000	1400			ND		0.18	0.033	ND	0.2	0.039	
Fluoranthene	8800	3200			1.4		0.1	0.02	0.11	J	0.12	0.023
Pyrene	6600	2200			1.2		0.1	0.018	0.095	J	0.12	0.02
Butyl benzyl phthalate	9800	2900			ND		0.18	0.044	ND	0.2	0.052	
3,3'-Dichlorobenzidine	41	7.7			ND		0.18	0.047	ND	0.2	0.054	
Benzo(a)anthracene	6.1	26			0.7		0.1	0.02	0.058	J	0.12	0.023
Chrysene	35	220			0.64		0.1	0.018	0.059	J	0.12	0.021
Bis(2-ethylhexyl)phthalate	1300	130			ND		0.18	0.061	ND	0.2	0.071	
Di-n-octylphthalate	2200	10000			ND		0.18	0.06	ND	0.2	0.07	
Benzo(b)fluoranthene	3.5	25			0.7		0.1	0.03	0.075	J	0.12	0.034
Benzo(k)fluoranthene	3.5	200			0.24		0.1	0.028	ND	0.12	0.033	
Benzo(a)pyrene	4.2	46			0.59		0.14	0.043	0.056	J	0.16	0.05
Indeno(1,2,3-cd)pyrene	3.5	1400			0.33		0.14	0.025	0.042	J	0.16	0.028
Dibenzo(a,h)anthracene	1	23			0.082	J	0.1	0.02	ND	0.12	0.024	
Benzo(ghi)perylene	13000	180			0.27		0.14	0.021	0.038	J	0.16	0.024
Total SVOCs					7.615	-	-	-	0.585	-	-	-
SEMOVOLATILE ORGANICS BY GC/MS-SIM												
Bis(2-chloroethyl)ether	1.3		0.015	0.0056	-	-	-	-	ND	0.041	0.011	
n-Nitrosodi-n-propylamine	0.22		0.0025		-	-	-	-	ND	0.041	0.011	
Total SVOCs					-	-	-	-	-	-	-	-
PESTICIDES BY GC												
Alpha-BHC	3	0.046			-	-	-	-	ND	0.00082	0.00018	
Lindane	17	0.072			-	-	-	-	ND	0.00082	0.00036	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:				SB8 (0-2)				SB8 (2-15)			
	LAB ID:				L2271474-15 R1				L2271474-16			
	COLLECTION DATE:				12/19/2022				12/19/2022			
	SAMPLE MATRIX:				SOIL				SOIL			
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)								
Beta-BHC	10	0.21			-	-	-	-	ND	0.00197	0.00074	
Delta-BHC					-	-	-	-	ND	0.00197	0.00038	
Heptachlor	4.1	0.68			-	-	-	-	ND	0.00098	0.00044	
Aldrin	1.1	0.46			-	-	-	-	ND	0.00197	0.00069	
Heptachlor epoxide	2	1.1			-	-	-	-	ND	0.00369	0.00111	
Endosulfan I	1300	110			-	-	-	-	ND	0.00197	0.00046	
trans-Chlordane					-	-	-	-	ND	0.00246	0.00064	
cis-Chlordane					-	-	-	-	0.00096	J	0.00246	0.00068
4,4'-DDE	55	41			-	-	-	-	0.00537	0.00197	0.00045	
Dieldrin	1.2	0.11			-	-	-	-	ND	0.00123	0.00061	
Endrin	66	5.5			-	-	-	-	ND	0.00082	0.00033	
4,4'-DDD	78	30			-	-	-	-	ND	0.00197	0.0007	
Endosulfan II	1300	120			-	-	-	-	ND	0.00197	0.00065	
4,4'-DDT	55	110			-	-	-	-	0.00631	0.00369	0.00158	
Endrin aldehyde					-	-	-	-	ND	0.00246	0.00086	
Methoxychlor	1100	630			-	-	-	-	ND	0.00369	0.00115	
Endosulfan sulfate	1300	70			-	-	-	-	ND	0.00082	0.00037	
Endrin ketone					-	-	-	-	ND	0.00197	0.0005	
Toxaphene	17	1.2			-	-	-	-	ND	0.0369	0.0103	
Chlordane	53	49			-	-	-	-	ND	0.0164	0.00652	
POLYCHLORINATED BIPHENYLS BY GC												
Aroclor 1016	15	66			-	-	-	-	ND	0.0403	0.00358	
Aroclor 1221	4.7	0.16		0.16	-	-	-	-	ND	0.0403	0.00403	
Aroclor 1232	9.3	0.13		0.14	-	-	-	-	ND	0.0403	0.00854	
Aroclor 1242	9.3	4			-	-	-	-	ND	0.0403	0.00543	
Aroclor 1248	9.3	16			-	-	-	-	ND	0.0403	0.00604	
Aroclor 1254	4.4	140			-	-	-	-	ND	0.0403	0.0044	
Aroclor 1260	9.3	150			-	-	-	-	ND	0.0403	0.00744	
Aroclor 1262					-	-	-	-	ND	0.0403	0.00511	
Aroclor 1268					-	-	-	-	ND	0.0403	0.00417	
PCBs, Total					-	-	-	-	ND	0.0403	0.00358	
TOTAL METALS												
Aluminum, Total					-	-	-	-	9380	9.54	2.58	
Antimony, Total	88	27			-	-	-	-	1.62	J	4.77	0.362
Arsenic, Total	12	29			-	-	-	-	6.08	0.954	0.198	
Barium, Total	44000	8200			-	-	-	-	58.5	0.954	0.166	
Beryllium, Total	440	320			-	-	-	-	0.611	0.477	0.032	
Cadmium, Total	110	38			-	-	-	-	ND	0.954	0.094	
Calcium, Total					-	-	-	-	8020	9.54	3.34	
Chromium, Total					-	-	-	-	22.5	0.954	0.092	
Cobalt, Total	66	45			-	-	-	-	9.12	1.91	0.158	
Copper, Total	7200	43000			-	-	-	-	15.6	0.954	0.246	
Iron, Total	150000				-	-	-	-	18400	4.77	0.861	
Lead, Total	500	450			-	-	-	-	69.4	4.77	0.256	

Table 1 Soil Analytical Results
38th and Brown Street
Philadelphia, Pennsylvania



	SAMPLE ID:		SB8 (0-2)		SB8 (2-15)							
	LAB ID:		L2271474-15 R1		L2271474-16							
	COLLECTION DATE:		12/19/2022		12/19/2022							
	SAMPLE MATRIX:		SOIL		SOIL							
	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R	Conc	Q	RL	MDL	Conc	Q	RL	MDL
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)								
Magnesium, Total					-	-	-	-	5270	9.54	1.47	
Manganese, Total	31000	2000			-	-	-	-	398	0.954	0.152	
Mercury, Total	35	10			-	-	-	-	0.241	0.08	0.052	
Nickel, Total	4400	650			-	-	-	-	8.03	2.38	0.231	
Potassium, Total					-	-	-	-	1200	238	13.7	
Selenium, Total	1100	26			-	-	-	-	ND	1.91	0.246	
Silver, Total	1100	84			-	-	-	-	ND	0.477	0.27	
Sodium, Total					-	-	-	-	43	J	191	3
Thallium, Total	2	14			-	-	-	-	ND	1.91	0.3	
Vanadium, Total	15	240			-	-	-	-	29.6	0.954	0.194	
Zinc, Total	66000	12000			-	-	-	-	52.1	4.77	0.279	
GENERAL CHEMISTRY												
Solids, Total					-	-	-	-	79.3	0.1	NA	

* Comparison is not performed on parameters with non-numeric criteria.

PA-RDCS: Pennsylvania Residential Direct Contact Soil MSCs Criteria per November 20, 2021 State

PA-RSGG: Pennsylvania Used Aquifers Residential Generic Soil to Groundwater MSCs Criteria per N

PA-RSGX: Pennsylvania Used Aquifers Residential 100X GW Soil to Groundwater MSCs Criteria per

PA-VI-S-R: Pennsylvania Residential Soil Statewide Health Standard Vapor Intrusion Screening Value

ND - Not detected at the reported detection limit for the sample.

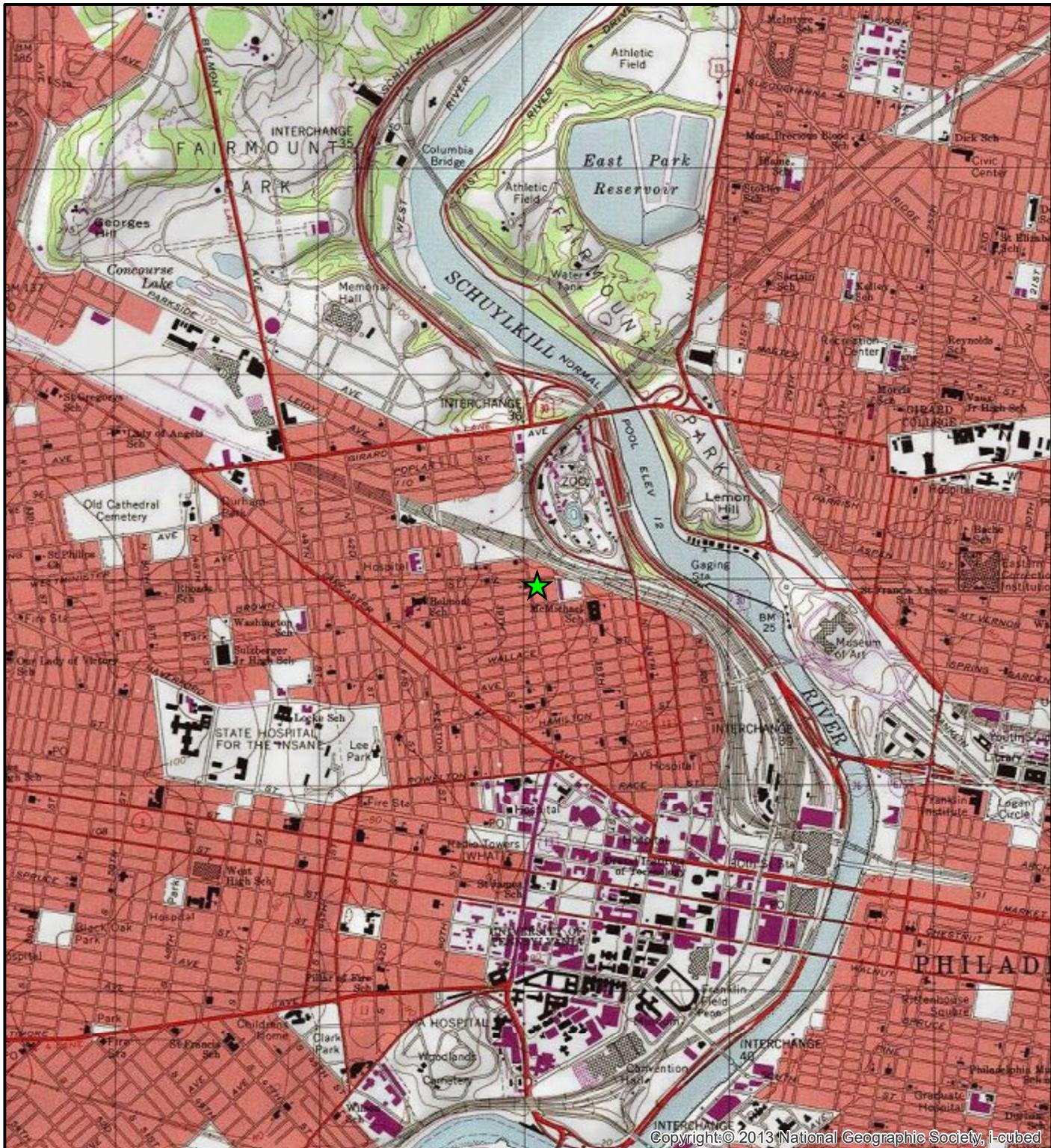
J - The reported result is an estimate. The value is less than the minimum calibration level but greater

P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

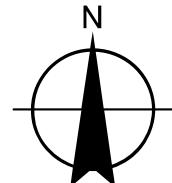
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instr

Figures



Legend

★ Site Location



3,000 1,500 0 3,000
Feet

REFERENCE: NAD 1983 CORS96 State Plane South Pennsylvania

38th AND BROWN STREET
PHILADELPHIA, PENNSYLVANIA

PHASE II ESA

FIGURE
NUMBER
1

SITE LOCATION

BATTA
Environmental

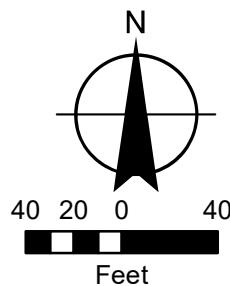
6 Garfield Way
Newark, DE 19713
www.battaenv.com



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

— Site Boundary



REFERENCE: NAD 1983 CORS96 State Plane South Pennsylvania

38th AND BROWN STREET
PHILADELPHIA, PENNSYLVANIA

PHASE II ESA

FIGURE

NUMBER

2

SITE VICINITY

BATTA
Environmental

6 Garfield Way
Newark, DE 19713
www.battaenv.com



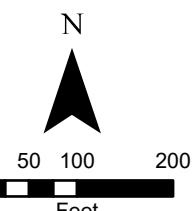
Legend

- Soil Boring Locations
- Site Boundary

COMPOUND NAME	PA-RDCS	PA-RSGG	PA-RSGX	PA-VI-S-R
Biphenyl	8.2	0.37	NA	NA
Benzo(a)anthracene	6.1	26	NA	NA
Chrysene	35	220	NA	NA
Benzo(b)fluoranthene	3.5	25	NA	NA
Benzo(k)fluoranthene	3.5	200	NA	NA
Benzo(a)pyrene	4.2	46	NA	NA
Indeno(1,2,3-cd)pyrene	3.5	1400	NA	NA
Dibenzo(a,h)anthracene	1	23	NA	NA
Arsenic, Total	12	29	NA	NA
Thallium, Total	2	14	NA	NA
Vanadium, Total	15	240	NA	NA

ND - non-detect
J - estimated value
PA-RDCS - Pennsylvania Residential Direct Contact Soil
PA-RSGG - PA Used Aquifers Residential Generic Soil to Groundwater Criteria
PA-RSGX - PA Used Aquifers Residential 100X GW Soil to Groundwater Criteria
PA-VI-S-R - PA Residential Soil Vapor Intrusion Screening Values Criteria

Exceeds the PA-RSGG Criteria
Exceeds the PA-RDCS
Exceeds the PA-RDCS and PA-RSGG Criteria



REFERENCE: NAD 1983 CORS 96 State Plane Pennsylvania South

38th AND BROWN STREET
PHILADELPHIA, PENNSYLVANIA

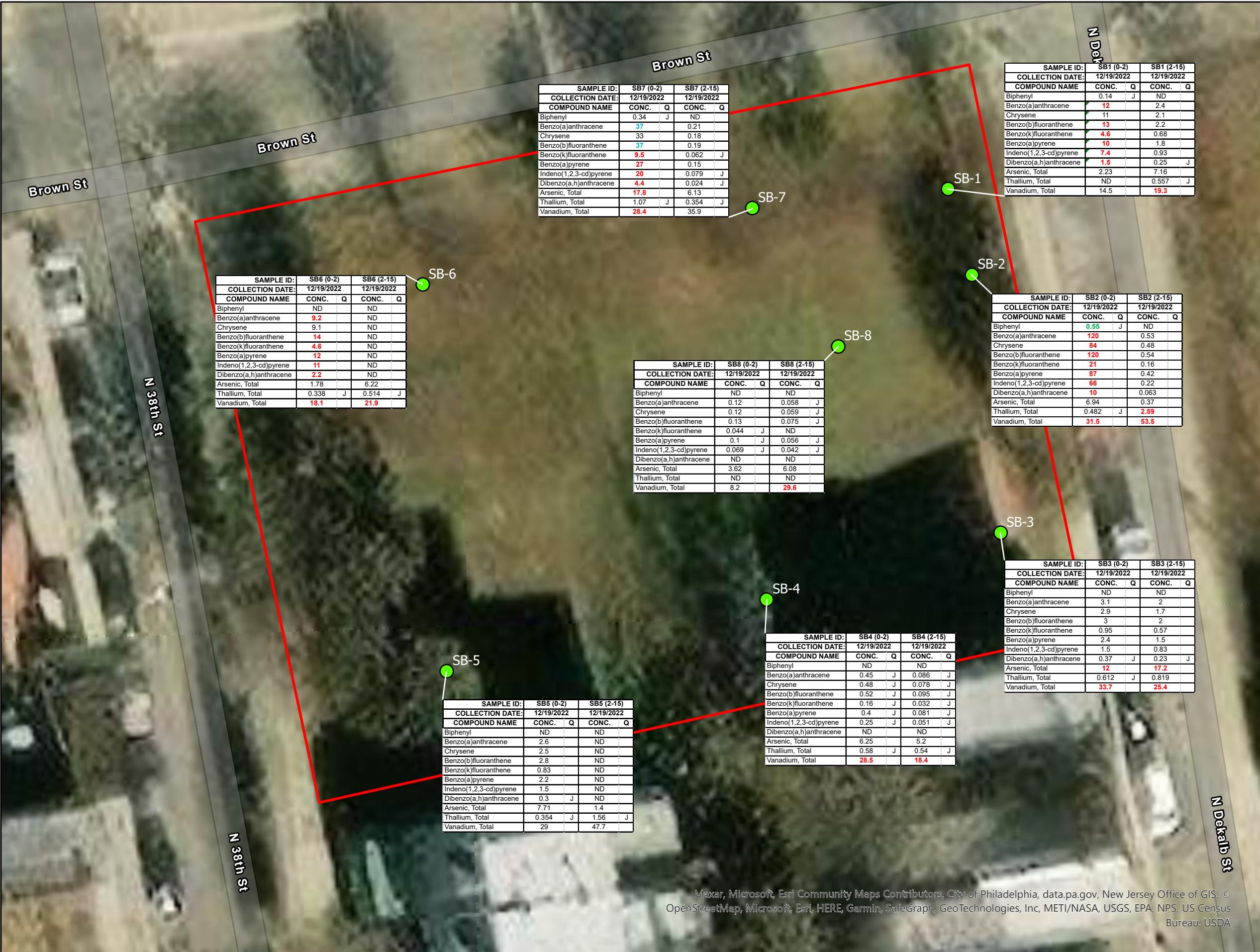
PHASE II ESA

FIGURE NUMBER	SOIL ANALYTICAL EXCEEDANCES
4	



6 Garfield Way
Newark, DE 19713
www.battaenv.com

Maxar, Microsoft, Esri Community Maps Contributors, City of Philadelphia, data.pa.gov, New Jersey Office of GIS, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA



Appendix A – Geophysical Report



Subsurface Environmental Technologies, LLC.
230 U.S. Route 130
Bordentown, NJ 08505
(609) 730-0005
(609) 730-1222

December 27, 2022
Ref No.: 22-340GD

Kevin Burns
Batta Environmental
1515 Market Street, Suite 1200
Philadelphia, Pennsylvania 19102

Subject: Geophysical Investigation Results
38th Street & Brown Street Site
Philadelphia, Pennsylvania 19104

Dear Mr. Burns,

Subsurface Environmental Technologies (SET) has prepared this report for Batta Environmental (Batta) of Philadelphia, Pennsylvania, describing the methods and results of a geophysical investigation conducted at the 38th Street & Brown Street site located in Philadelphia, Pennsylvania. The site for this investigation is an open, grassy field surrounded by a wooden fence and concrete sidewalks. The investigation area for this project included specific proposed drilling locations as well as the sidewalks surrounding the property and up to approximately 15 feet within the fence line, as directed by Batta field personnel. The field activities for this investigation were completed by SET on December 19, 2022.

Objectives

The objective of this investigation was to locate potential buried man-made objects such as utility pipelines, anomalies, or underground storage tanks (USTs) directly below and surrounding eight (8) proposed drilling points. The sidewalks and up to approximately 15 feet within the fence line were also investigated for potential USTs. These buried features may adversely affect planned drilling events on site. To meet this objective SET used a GSSI Ground Penetrating Radar (GPR) system, an RD7000 Radiofrequency instrument by RadioDetection, Inc, and a hand-held electromagnetic (HHEM) Fisher TW-6 M-Scope.

Instrumentation

Ground Penetrating Radar (GPR)

Ground Penetrating Radar (GPR) is a near surface geophysical method based on the transmission of repetitive, high-frequency electromagnetic (EM) pulses emitted from a transmitting antenna to probe the Earth. The EM pulses emitted from the transmitting antenna propagate through the subsurface at a velocity that is directly related to the electrical properties of the subsurface. When an EM wave contacts an interface of differing electrical properties (e.g., dielectric constant), part of that energy is returned to the surface in the form of a reflected signal. The reflected signal is detected by a receiving transducer, displayed on the control unit screen, and recorded on an internal hard drive. The control unit records a continuous cross-section of the subsurface by plotting the two-way travel time of the EM pulse, relative to the distance traveled by the GPR antenna along to ground surface. To determine depth, two-way travel time values are converted using known soil velocity functions. GPR field procedures include: system calibration, test run completion, and profile collection and interpretation. GPR Data collected in the field can be analyzed both in the field and in the office, should further analysis be required.

Radio-Frequency Method

The RadioDetection RD7000 multi-frequency utility locating system was used for this project. This instrument consists of a receiver/tracer and a remote transmitter, which operates at frequencies between 8 kHz and 200 kHz. The unit provides audio and visual feedback to the operator when a utility that is coupled with the transmitted signal is crossed. The transmitter produces a radio-frequency signal in the utility to be traced by either induction coupling or direct hookup. The receiver output provides measured field strength of the received signal and varies an audible pitch that is dependent upon the distance to the utility. By carefully adjusting the gain of the receiver, it is possible to determine the location of the utility and to separate it from possible adjacent utilities. In addition, the receiver can be used in 60 Hz passive mode to identify active electrical lines or lines that possess an induced current.

Fisher TW-6 M-Scope

The M-Scope is an electromagnetic (EM) instrument used to detect the presence of buried metallic objects such as buried drums, metallic conduits, or miscellaneous metallic debris buried within the upper 3 to 5 feet of the subsurface. The Fisher M-Scope uses the principals of electromagnetic induction. A primary coil broadcasts a radio signal from a transmitting antenna, and induces secondary electrical currents along buried metallic objects. This secondary electrical current in turn produces a secondary magnetic field, which is then detected by a receiving antenna. Peak responses are observed when the instrument is moved directly over a metallic object. Peak responses are observed by the operator in real time using the analog meter and audible output signals.

Results and Discussion

SET has enclosed three (3) figures with this report. Figure 1 is an annotated high-resolution, georeferenced orthophoto that shows proposed drilling locations, buried utilities, anomalies, and site features. Figure 2 and Figure 3 present annotated site photographs. Please note, a photograph of anomaly A2 was not taken and could not be included. The results of the geophysical survey are summarized below.

Proposed Drilling Locations

SET investigated a total of eight (8) proposed drilling locations. All locations selected as a final drilling point displayed geophysical characteristics which were not indicative of buried utility pipelines or anomalous zones that may adversely affect drilling operations. SET determined these points as final when the RF and M-Scope instrument responses were constant and when GPR responses did not indicate the presence of buried objects. These locations were marked on the ground with spray paint as a dot inside a circle. See Table 1 below for approximate locations of each proposed drilling location. Generic identification numbers were assigned to each drilling location for reference within this report. The proposed drilling locations presented on the attached figures were not surveyed by a licensed surveyor and should be considered approximate. Refer to field markings for actual positions.

Table 1. Approximate Drilling Location Coordinates (PA State Plane)

Drilling Point Designation	Easting (US Survey Feet)	Northing (US Survey Feet)
SB-1	2683816	241496
SB-2	2683821	241478
SB-3	2683827	241424
SB-4	2683778	241410
SB-5	2683711	241395
SB-6	2683706	241476
SB-7	2683775	241492
SB-8	2683793	241463

Buried Anomalies

SET detected three (3) buried metallic anomalies designated as A1, A2, and A3 on the map in Figure 1. GPR data collected over the three anomalies did not show GPR profiles characteristic of a UST (strong, hyperbolic signatures along an apparent short axis and strong, flat reflections along an apparent long axis). However, strong metallic responses were present at each anomaly, and it is possible that any of these anomalies may be due to a UST or a UST carcass that has been crushed, broken apart, deformed, corroded, or misshapen, and is indistinguishable from buried metallic debris. See Table 2 below for approximate locations of each detected buried anomaly.

Table 2. Approximate Anomaly Location Coordinates (PA State Plane)

Anomaly Designation	Easting (US Survey Feet)	Northing (US Survey Feet)	Description
A1	2683826	241481	Irregular-shaped, approximately 24 square feet
A2	2683757	241493	Square-shaped, approximately 5.5' by 5.5'
A3	2683713	241478	Rectangular-shaped, approximately 2' by 6'

Buried Utilities

SET detected a buried unknown line within the investigation area. The detected unknown line was marked on the ground with spray paint and annotated on the attached figures following the American Public Works Association (APWA) Uniform Color Code standards for utility mark-outs. See Table 3 below for APWA color code standards.

Table 3. APWA Uniform Color Code Standards for Utility Mark-outs

Color	Designation
Red	Electric lines, cables, conduit, and lighting lines
Orange	Telecommunication, alarm, or signal lines
Green	Drains and sanitary or storm sewer lines
Yellow	Gas, oil, steam, petroleum, or gaseous materials
Blue	Potable water lines
White	Proposed intrusive work (excavation/drilling)
Pink	Temporary survey marking/geophysical anomaly
Purple	Reclaimed water, irrigation, and slurry lines

Batta Environmental
38th Street & Brown Street Site
Philadelphia, PA 19104
December 27, 2022

Data Quality & Closing

The RF, GPR, and HHEM data quality for this project was good. Because of the nature of the subsurface in the survey area, the GPR signals penetrated to approximate depths of 3.0 to 4.0 feet bgs and the RF and M-Scope instruments encountered little to no interference in the investigation area. The interpretations in this report are based on observed geophysical responses and visual observations made in the field.

The geophysical data collection and interpretation methods used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses is based on the past results of similar surveys, although it is possible that some variation could exist at this site. Due to the nature of geophysical data, no guarantees have been made or inferred regarding the presence or absence of additional objects or targets beyond those identified or beyond the detection limits of the instrumentation used in this investigation.

It was a pleasure working with you on this project, and we look forward to conducting geophysical investigations for you in the future.

Subsurface Environmental Technologies, LLC
Geophysics Group



Thomas J. Huckin Jr., G.I.T.
Staff Geophysicist



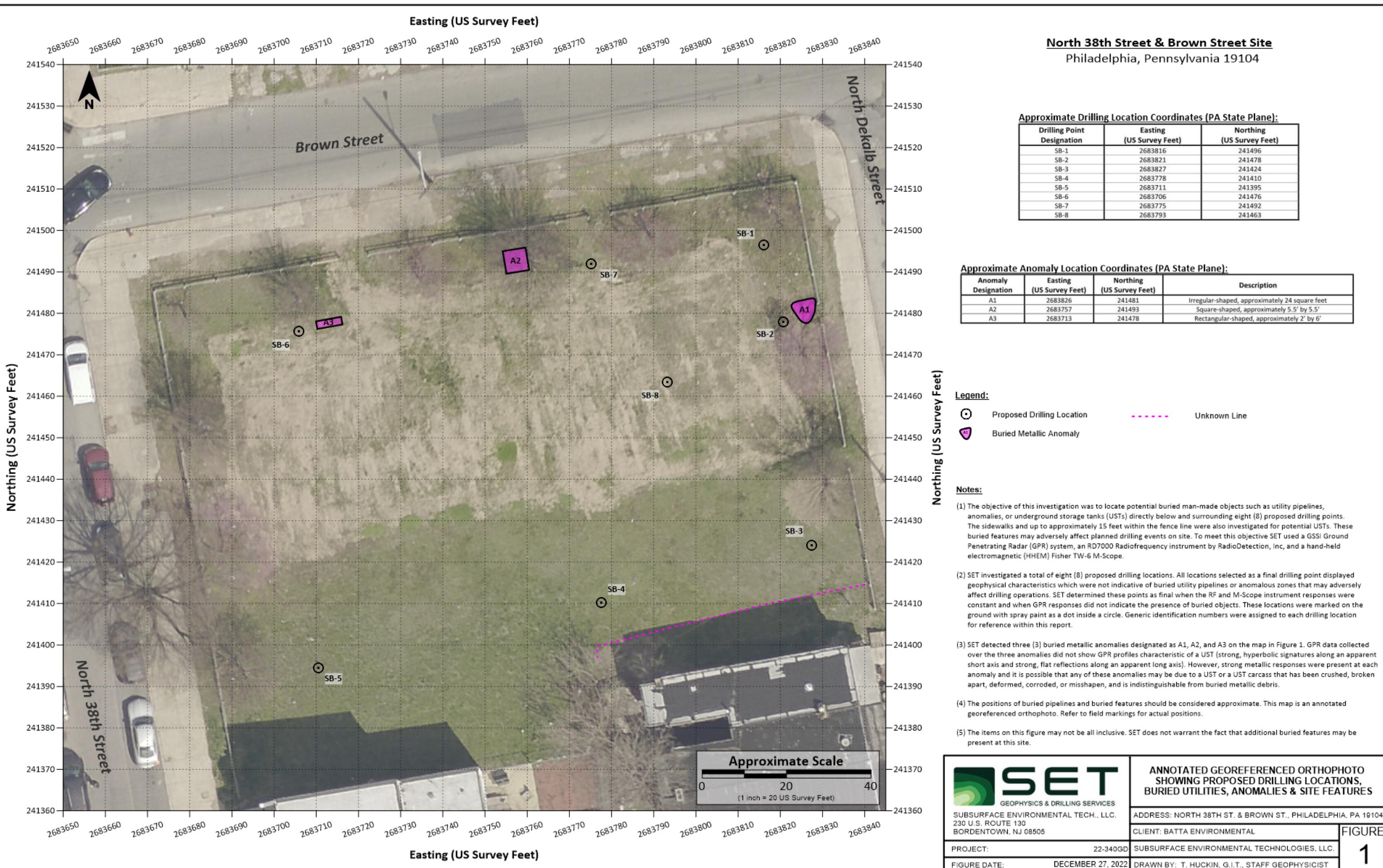
Peter T. Miller Ph.D., P.G.
Senior Geophysicist

Attachments:

Figure 1: Annotated Georeferenced Orthophoto Showing Proposed Drilling Locations, Buried Utilities, Anomalies & Site Features

Figure 2: Annotated Site Photographs Showing Proposed Drilling Locations, Buried Utilities, Anomalies & Site Features

Figure 3: Annotated Site Photographs Showing Proposed Drilling Locations, Buried Utilities, Anomalies & Site Features



North 38th Street & Brown Street Site
Philadelphia, Pennsylvania 19104



Photo 1: The photo shows proposed drilling location SB-1. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.

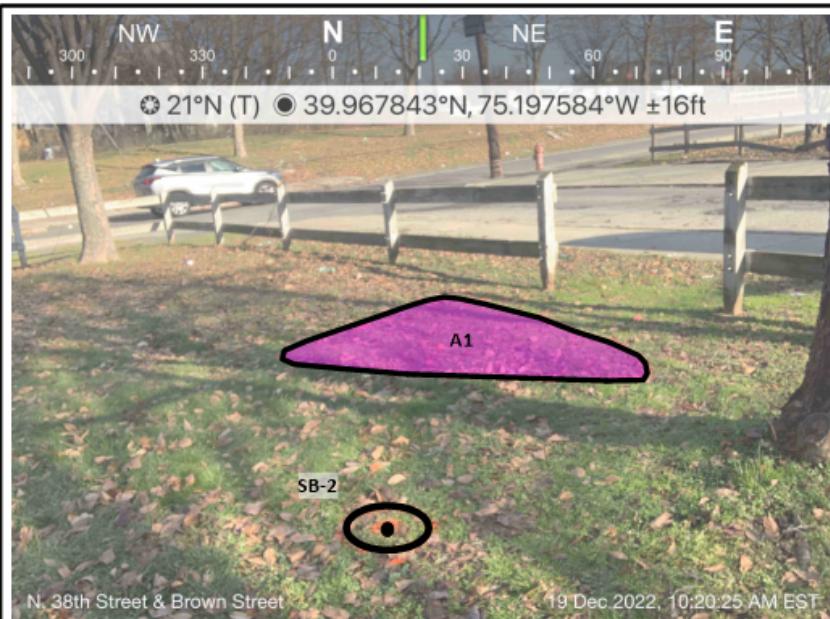


Photo 2: The photo shows proposed drilling location SB-2 as well as anomaly A1. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.



Photo 3: The photo shows proposed drilling location SB-3 as well as a buried unknown line. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.



Photo 4: The photo shows proposed drilling location SB-4 as well as a buried unknown line. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.

Approximate Drilling Location Coordinates (PA State Plane):

Drilling Point Designation	Easting (US Survey Feet)	Northing (US Survey Feet)
SB-1	2683816	241496
SB-2	2683821	241478
SB-3	2683827	241424
SB-4	2683778	241410
SB-5	2683711	241395
SB-6	2683706	241476
SB-7	2683775	241492
SB-8	2683793	241463

Approximate Anomaly Location Coordinates (PA State Plane):

Anomaly Designation	Easting (US Survey Feet)	Northing (US Survey Feet)	Description
A1	2683826	241481	Irregular-shaped, approximately 24 square feet
A2	2683757	241493	Square-shaped, approximately 5.5' by 5.5'
A3	2683713	241478	Rectangular-shaped, approximately 2' by 6'

Legend:

- Proposed Drilling Location
- Unknown Line
- Buried Metallic Anomaly

Notes:

- (1) The objective of this investigation was to locate potential buried man-made objects such as utility pipelines, anomalies, or underground storage tanks (USTs) directly below and surrounding eight (8) proposed drilling points. The sidewalks and up to approximately 15 feet within the fence line were also investigated for potential USTs. These buried features may adversely affect planned drilling events on site. To meet this objective SET used a GSSI Ground Penetrating Radar (GPR) system, an RD7000 Radiofrequency instrument by RadioDetection, Inc, and a hand-held electromagnetic (HHM) Fisher TW-6 M-Scope.
- (2) SET investigated a total of eight (8) proposed drilling locations. All locations selected as a final drilling point displayed geophysical characteristics which were not indicative of buried utility pipelines or anomalous zones that may adversely affect drilling operations. SET determined these points as final when the RF and M-Scope instrument responses were constant and when GPR responses did not indicate the presence of buried objects. These locations were marked on the ground with spray paint as a dot inside a circle. Generic identification numbers were assigned to each drilling location for reference within this report.
- (3) SET detected three (3) buried metallic anomalies designated as A1, A2, and A3 on the map in Figure 1. GPR data collected over the three anomalies did not show GPR profiles characteristic of a UST (strong, hyperbolic signatures along an apparent short axis and strong, flat reflections along an apparent long axis). However, strong metallic responses were present at each anomaly and it is possible that any of these anomalies may be due to a UST or a UST carcass that has been crushed, broken apart, deformed, corroded, or misshapen, and is indistinguishable from buried metallic debris.
- (4) The positions of buried pipelines and buried features should be considered approximate. This map is an annotated georeferenced orthophoto. Refer to field markings for actual positions.
- (5) The items on this figure may not be all inclusive. SET does not warrant the fact that additional buried features may be present at this site.

SET GEOPHYSICS & DRILLING SERVICES SUBSURFACE ENVIRONMENTAL TECH., LLC. 230 U.S. ROUTE 130 BORDENTOWN, NJ 08505	ANNOTATED SITE PHOTOGRAPHS SHOWING PROPOSED DRILLING LOCATIONS, BURIED UTILITIES, ANOMALIES & SITE FEATURES	
	ADDRESS: NORTH 38TH ST. & BROWN ST., PHILADELPHIA, PA 19104	CLIENT: BATTAG ENVIRONMENTAL
PROJECT:	22-340GD	SUBSURFACE ENVIRONMENTAL TECHNOLOGIES, LLC.
FIGURE DATE:	DECEMBER 27, 2022	DRAWN BY: T. HUCKIN, G.I.T., STAFF GEOPHYSICIST

North 38th Street & Brown Street Site
Philadelphia, Pennsylvania 19104

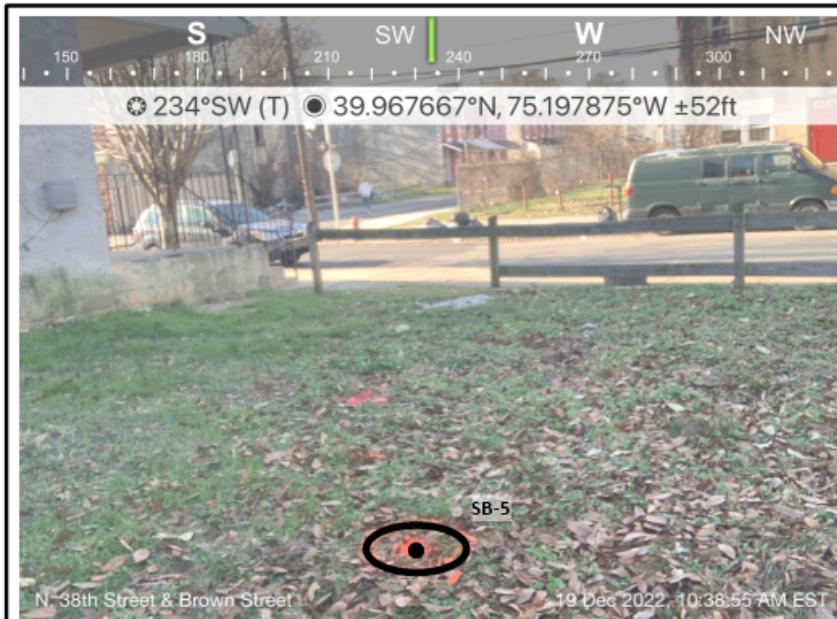


Photo 5: The photo shows proposed drilling location SB-5. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.



Photo 6: The photo shows proposed drilling location SB-6 as well as anomaly A3. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.



Photo 7: The photo shows proposed drilling location SB-7. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.



Photo 8: The photo shows proposed drilling locations SB-7 and SB-8. The approximate photo location, direction the photo was taken, and the date and time of the photo is presented.

Approximate Drilling Location Coordinates (PA State Plane):

Drilling Point Designation	Easting (US Survey Feet)	Northing (US Survey Feet)
SB-1	2683816	241496
SB-2	2683821	241478
SB-3	2683827	241424
SB-4	2683778	241410
SB-5	2683711	241395
SB-6	2683706	241476
SB-7	2683775	241492
SB-8	2683793	241463

Approximate Anomaly Location Coordinates (PA State Plane):

Anomaly Designation	Easting (US Survey Feet)	Northing (US Survey Feet)	Description
A1	2683826	241481	Irregular-shaped, approximately 24 square feet
A2	2683757	241493	Square-shaped, approximately 5.5' by 5.5'
A3	2683713	241478	Rectangular-shaped, approximately 2' by 6'

Legend:

- Proposed Drilling Location
- Unknown Line
- Buried Metallic Anomaly

Notes:

- (1) The objective of this investigation was to locate potential buried man-made objects such as utility pipelines, anomalies, or underground storage tanks (USTs) directly below and surrounding eight (8) proposed drilling points. The sidewalks and up to approximately 15 feet within the fence line were also investigated for potential USTs. These buried features may adversely affect planned drilling events on site. To meet this objective SET used a GSSI Ground Penetrating Radar (GPR) system, an RD7000 Radiofrequency instrument by RadioDetection, Inc, and a hand-held electromagnetic (HHEM) Fisher TW-6 M-Scope.
- (2) SET investigated a total of eight (8) proposed drilling locations. All locations selected as a final drilling point displayed geophysical characteristics which were not indicative of buried utility pipelines or anomalous zones that may adversely affect drilling operations. SET determined these points as final when the RF and M-Scope instrument responses were constant and when GPR responses did not indicate the presence of buried objects. These locations were marked on the ground with spray paint as a dot inside a circle. Generic identification numbers were assigned to each drilling location for reference within this report.
- (3) SET detected three (3) buried metallic anomalies designated as A1, A2, and A3 on the map in Figure 1. GPR data collected over the three anomalies did not show GPR profiles characteristic of a UST (strong, hyperbolic signatures along an apparent short axis and strong, flat reflections along an apparent long axis). However, strong metallic responses were present at each anomaly and it is possible that any of these anomalies may be due to a UST or a UST carcass that has been crushed, broken apart, deformed, corroded, or misshapen, and is indistinguishable from buried metallic debris.
- (4) The positions of buried pipelines and buried features should be considered approximate. This map is an annotated georeferenced orthophoto. Refer to field markings for actual positions.
- (5) The items on this figure may not be all inclusive. SET does not warrant the fact that additional buried features may be present at this site.

 SUBSURFACE ENVIRONMENTAL TECH., LLC. 230 U.S. ROUTE 130 BORDENTOWN, NJ 08505	ANNOTATED SITE PHOTOGRAPHS SHOWING PROPOSED DRILLING LOCATIONS, BURIED UTILITIES, ANOMALIES & SITE FEATURES	
	ADDRESS: NORTH 38TH ST. & BROWN ST., PHILADELPHIA, PA 19104	CLIENT: BATTA ENVIRONMENTAL
PROJECT:	22-340GD	SUBSURFACE ENVIRONMENTAL TECHNOLOGIES, LLC.
FIGURE DATE:	DECEMBER 27, 2022	DRAWN BY: T. HUCKIN, G.I.T., STAFF GEOPHYSICIST

Appendix B – Boring Logs



FIELD BOREHOLE LOG FOR: SB-1

Batta Environmental Associates, Inc.

Page 1 of 1

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE: TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID (ppm)	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB1 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---								--- 4
6 ---				SB1 (2-15)	0			--- 6
8 ---			Fill - brick, coal, glass					--- 8
10 ---								--- 10
12 ---					0			--- 12
14 ---								--- 14
			End Boring at 15'					

Comments:

No groundwater encountered



FIELD BOREHOLE LOG FOR: SB-2

Page 1 of 1

Batta Environmental Associates, Inc.

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE: TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB2 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---			Fill - brick, coal, glass	SB2 (2-15)				--- 4
6 ---					0			--- 6
8 ---								--- 8
10 ---								--- 10
12 ---			Weathered Bedrock (Saporlite)		0			--- 12
14 ---								--- 14
			End Boring at 15'					

Comments:
No groundwater encountered



FIELD BOREHOLE LOG FOR: SB-3

Page 1 of 1

Batta Environmental Associates, Inc.

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE: TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB3 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---								--- 4
6 ---			Fill - brick, coal, glass	SB3 (2-15)	0			--- 6
8 ---								--- 8
10 ---								--- 10
12 ---					0			--- 12
14 ---			Weathered Bedrock (Saporlite)					--- 14
			End Boring at 15'					

Comments:
No groundwater encountered



FIELD BOREHOLE LOG FOR: SB-4

Page 1 of 1

Batta Environmental Associates, Inc.

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE: TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB4 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---			Fill - Brick, coal, slightly damp	SB4 (2-15)				--- 4
6 ---					0			--- 6
8 ---				SB4 (2-15)				--- 8
10 ---					0			10
12 ---			Weathered Bedrock (Saporlite)					--- 12
14 ---								--- 14
			End Boring at 15'					

Comments:
No groundwater encountered



FIELD BOREHOLE LOG FOR: SB-5

Batta Environmental Associates, Inc.

Page 1 of 1

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE: TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB5 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---				SB5 (2-15)				--- 4
6 ---			Fill - brick, coal, white stone		0			--- 6
8 ---								--- 8
10 ---								10
12 ---			Weathered Bedrock (Saporlite)		0			--- 12
14 ---								--- 14
			End Boring at 15'					

Comments:
No groundwater encountered



FIELD BOREHOLE LOG FOR: SB-6

Page 1 of 1

Batta Environmental Associates, Inc.

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE:

TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB6 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---			Fill - brick, coal, quartz	SB6 (2-15)	0			--- 4
6 ---					0			--- 6
8 ---				SB6 (2-15)	0			--- 8
10 ---					0			--- 10
12 ---			Weathered Bedrock (Saporlite)					--- 12
14 ---								--- 14
			End Boring at 15'					

Comments:
No groundwater encountered



FIELD BOREHOLE LOG FOR: SB-7

Batta Environmental Associates, Inc.

Page 1 of 1

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE: TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB7 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---				SB7 (2-15)				--- 4
6 ---					0			--- 6
8 ---								--- 8
10 ---								--- 10
12 ---			Weathered Bedrock (Saporlite)		0			--- 12
14 ---								--- 14
			End Boring at 15'					

Comments:
No groundwater encountered



FIELD BOREHOLE LOG FOR: SB-8

Batta Environmental Associates, Inc.

Page 1 of 1

PROJECT/CLIENT: **Women's Community Revitalization Project** DATE/TIME DRILLED: **12/19/22**
BATTA PROJECT NO: **1069022** DRILLING COMPANY: **Subsurface Environmental Testing, Inc**
SITE NAME/LOCATN: **38th and Brown Street** RIG OPERATOR:
BORING LOCATION **Philadelphia, PA** RIG TYPE/METHOD: **7822DT Geoprobe**
LOGGED BY: **S. Hanggodo** SAMPLER DIAMETER: **2"** LENGTH: **4'**
SIGNATURE: TOTAL BORING DEPTH: **15'** GS ELEV.

Depth (ft)	Graphic Symbol	USCS Class	Description	Sample ID	PID	Recovery	Blow Count	
0 ---			0 - 3" Topsoil, organics	SB8 (0-2)	0			--- 0
2 ---					0			--- 2
4 ---								--- 4
6 ---				SB8 (2-15)	0			--- 6
8 ---								--- 8
10 ---								--- 10
12 ---			Weathered Bedrock (Saporlite)		0			--- 12
14 ---								--- 14
			End Boring at 15'					

Comments:
No groundwater encountered

Appendix C – Site Photographic Log

Appendix C – Site Photographs
38th and Brown Street, Philadelphia, Pennsylvania



Drilling	A photograph showing a worker in an orange hoodie and brown pants operating a white crawler-mounted drilling rig. The rig is positioned in a grassy area with fallen leaves. In the background, there's a white van with "SET" markings, some bare trees, and a large concrete wall or building under construction.
Core sampler	A close-up photograph of a core sample being extracted from a concrete wall. The core sample is a long, cylindrical piece of dark, possibly contaminated soil or sediment, being held by a gloved hand. The concrete wall has some peeling paint and a red tool is visible nearby. A person's leg and shoe are visible in the background.

Appendix C – Site Photographs
38th and Brown Street, Philadelphia, Pennsylvania



Boring location	
GPR Anomaly location	

Appendix C – Site Photographs

38th and Brown Street, Philadelphia, Pennsylvania

BATTA
Environmental

Target property and boring locations	
Target property and GPR anomaly locations	

Appendix C – Site Photographs
38th and Brown Street, Philadelphia, Pennsylvania



Core samplers	
Boring locations	

Appendix C – Site Photographs
38th and Brown Street, Philadelphia, Pennsylvania

BATTA
Environmental

Boring locations	
Drilling	

Appendix C – Site Photographs

38th and Brown Street, Philadelphia, Pennsylvania



Target property and boring restoration	A photograph showing a grassy field with fallen leaves. In the background, there is a white fence and a road with a white truck parked on the side. Bare trees are visible against a cloudy sky.
Boring restoration	A photograph showing a grassy field with fallen leaves. A larger, more prominent pile of disturbed soil or sand is visible compared to the first photo, indicating the results of a boring operation.

Appendix D – Laboratory Analytical Package



ANALYTICAL REPORT

Lab Number:	L2271474
Client:	BATTA Environmental Associates, Inc. 6 Garfield Way Newark, DE 19713
ATTN:	Kevin Burns
Phone:	(855) 862-2882
Project Name:	38TH & BROWN
Project Number:	1069022
Report Date:	01/05/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2271474-01	SB1 (0-2)	SOIL	PHILLY, PA	12/19/22 10:00	12/20/22
L2271474-02	SB1 (2-15)	SOIL	PHILLY, PA	12/19/22 10:05	12/20/22
L2271474-03	SB2 (0-2)	SOIL	PHILLY, PA	12/19/22 10:10	12/20/22
L2271474-04	SB2 (2-15)	SOIL	PHILLY, PA	12/19/22 10:20	12/20/22
L2271474-05	SB3 (0-2)	SOIL	PHILLY, PA	12/19/22 10:30	12/20/22
L2271474-06	SB3 (2-15)	SOIL	PHILLY, PA	12/19/22 10:45	12/20/22
L2271474-07	SB4 (0-2)	SOIL	PHILLY, PA	12/19/22 10:50	12/20/22
L2271474-08	SB4 (2-15)	SOIL	PHILLY, PA	12/19/22 10:55	12/20/22
L2271474-09	SB5 (0-2)	SOIL	PHILLY, PA	12/19/22 11:05	12/20/22
L2271474-10	SB5 (2-15)	SOIL	PHILLY, PA	12/19/22 11:10	12/20/22
L2271474-11	SB6 (0-2)	SOIL	PHILLY, PA	12/19/22 11:15	12/20/22
L2271474-12	SB6 (2-15)	SOIL	PHILLY, PA	12/19/22 11:20	12/20/22
L2271474-13	SB7 (0-2)	SOIL	PHILLY, PA	12/19/22 11:30	12/20/22
L2271474-14	SB7 (2-15)	SOIL	PHILLY, PA	12/19/22 11:35	12/20/22
L2271474-15	SB8 (0-2)	SOIL	PHILLY, PA	12/19/22 11:45	12/20/22
L2271474-16	SB8 (2-15)	SOIL	PHILLY, PA	12/19/22 11:55	12/20/22

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2271474-15: The collection date and time on the chain of custody was 19-DEC-22 11:45; however, the collection date/time on the container label was 19-DEC-22 10:45. At the client's request, the collection date/time is reported as 19-DEC-22 11:45.

Semivolatile Organics

L2271474-02D, -05D, -06D, -07D, -09D, and -11D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2271474-15: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (4%) and 2,4,6-tribromophenol (1%); however, re-extraction outside of holding time achieved similar results: 2-fluorophenol (10%) and 2,4,6-tribromophenol (6%). The results of both extractions are reported.

Semivolatile Organics by SIM

L2271474-01D, -02D, -03D, -05D, -06D, -07D, -09D, -11D, and -13D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Pesticides

L2271474-01: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (218%/680%); however, the sample was not re-extracted due to coelution with obvious interferences.

L2271474-03: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (690%/5980%); however, the sample was not re-extracted due to coelution with obvious interferences.

L2271474-13: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (176%/970%); however, the sample was not re-extracted due to coelution with obvious interferences.

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Case Narrative (continued)

Total Metals

L2271474-01 through -16: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 01/05/23

ORGANICS



VOLATILES



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil
Analytical Method:	1,8260D
Analytical Date:	12/22/22 09:15
Analyst:	AJK
Percent Solids:	81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0065	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00094	1
Chloroethane	ND		mg/kg	0.0032	0.00073	1
Trichlorofluoromethane	ND		mg/kg	0.0065	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00038	1
Carbon disulfide	ND		mg/kg	0.016	0.0074	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0065	0.0011	1
Methylene chloride	ND		mg/kg	0.0081	0.0037	1
Acetone	ND		mg/kg	0.040	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0065	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00088	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	ND		mg/kg	0.0024	0.00023	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00081	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	ND		mg/kg	0.00081	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Methyl cyclohexane	ND		mg/kg	0.0065	0.00097	1
Trichloroethene	ND		mg/kg	0.00081	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00081	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.057	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00081	0.00026	1
Toluene	ND		mg/kg	0.0016	0.00088	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00081	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00081	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00023	1
1,2-Dibromoethane	ND		mg/kg	0.00081	0.00047	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00081	0.00020	1
Ethylbenzene	0.00079	J	mg/kg	0.0016	0.00023	1
p/m-Xylene	0.0026	J	mg/kg	0.0032	0.00090	1
o-Xylene	0.00073	J	mg/kg	0.0016	0.00047	1
Xylenes, Total	0.0033	J	mg/kg	0.0016	0.00047	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0065	0.00040	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00081	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0048	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	111		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-02	Date Collected:	12/19/22 10:05
Client ID:	SB1 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 09:42
 Analyst: AJK
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND	mg/kg	0.022	0.0020	1	
Chloromethane	ND	mg/kg	0.0088	0.0021	1	
Vinyl chloride	ND	mg/kg	0.0022	0.00074	1	
Bromomethane	ND	mg/kg	0.0044	0.0013	1	
Chloroethane	ND	mg/kg	0.0044	0.0010	1	
Trichlorofluoromethane	ND	mg/kg	0.0088	0.0015	1	
1,1-Dichloroethene	ND	mg/kg	0.0022	0.00053	1	
Carbon disulfide	ND	mg/kg	0.022	0.010	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	mg/kg	0.0088	0.0015	1	
Methylene chloride	ND	mg/kg	0.011	0.0051	1	
Acetone	ND	mg/kg	0.055	0.022	1	
trans-1,2-Dichloroethene	ND	mg/kg	0.0033	0.00030	1	
Methyl Acetate	ND	mg/kg	0.0088	0.0021	1	
Methyl tert butyl ether	ND	mg/kg	0.0044	0.00044	1	
1,1-Dichloroethane	ND	mg/kg	0.0022	0.00032	1	
cis-1,2-Dichloroethene	ND	mg/kg	0.0022	0.00039	1	
1,2-Dichloroethene, Total	ND	mg/kg	0.0022	0.00030	1	
Cyclohexane	ND	mg/kg	0.022	0.0012	1	
Bromochloromethane	ND	mg/kg	0.0044	0.00045	1	
Chloroform	ND	mg/kg	0.0033	0.00031	1	
Carbon tetrachloride	ND	mg/kg	0.0022	0.00051	1	
1,1,1-Trichloroethane	ND	mg/kg	0.0011	0.00037	1	
2-Butanone	ND	mg/kg	0.022	0.0049	1	
Benzene	ND	mg/kg	0.0011	0.00037	1	
1,2-Dichloroethane	ND	mg/kg	0.0022	0.00057	1	
Methyl cyclohexane	ND	mg/kg	0.0088	0.0013	1	
Trichloroethene	ND	mg/kg	0.0011	0.00030	1	
1,2-Dichloropropane	ND	mg/kg	0.0022	0.00028	1	



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-02	Date Collected:	12/19/22 10:05
Client ID:	SB1 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0011	0.00024	1
1,4-Dioxane	ND		mg/kg	0.18	0.078	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00035	1
Toluene	ND		mg/kg	0.0022	0.0012	1
4-Methyl-2-pentanone	ND		mg/kg	0.022	0.0028	1
Tetrachloroethene	ND		mg/kg	0.0011	0.00043	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0022	0.00060	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0011	0.00035	1
1,1,2-Trichloroethane	ND		mg/kg	0.0022	0.00059	1
Dibromochloromethane	ND		mg/kg	0.0022	0.00031	1
1,2-Dibromoethane	ND		mg/kg	0.0011	0.00065	1
2-Hexanone	ND		mg/kg	0.022	0.0026	1
Chlorobenzene	ND		mg/kg	0.0011	0.00028	1
Ethylbenzene	ND		mg/kg	0.0022	0.00031	1
p/m-Xylene	ND		mg/kg	0.0044	0.0012	1
o-Xylene	ND		mg/kg	0.0022	0.00064	1
Xylenes, Total	ND		mg/kg	0.0022	0.00064	1
Styrene	ND		mg/kg	0.0022	0.00043	1
Bromoform	ND		mg/kg	0.0088	0.00054	1
Isopropylbenzene	ND		mg/kg	0.0022	0.00024	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0011	0.00037	1
1,3-Dichlorobenzene	ND		mg/kg	0.0044	0.00033	1
1,4-Dichlorobenzene	ND		mg/kg	0.0044	0.00038	1
1,2-Dichlorobenzene	ND		mg/kg	0.0044	0.00032	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0066	0.0022	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0044	0.00060	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0044	0.00071	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	111		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 10:09
 Analyst: AJK
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND	mg/kg	0.015	0.0014	1	
Chloromethane	ND	mg/kg	0.0061	0.0014	1	
Vinyl chloride	ND	mg/kg	0.0015	0.00051	1	
Bromomethane	ND	mg/kg	0.0031	0.00089	1	
Chloroethane	ND	mg/kg	0.0031	0.00069	1	
Trichlorofluoromethane	ND	mg/kg	0.0061	0.0011	1	
1,1-Dichloroethene	ND	mg/kg	0.0015	0.00036	1	
Carbon disulfide	ND	mg/kg	0.015	0.0070	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	mg/kg	0.0061	0.0011	1	
Methylene chloride	ND	mg/kg	0.0076	0.0035	1	
Acetone	ND	mg/kg	0.038	0.015	1	
trans-1,2-Dichloroethene	ND	mg/kg	0.0023	0.00021	1	
Methyl Acetate	ND	mg/kg	0.0061	0.0014	1	
Methyl tert butyl ether	ND	mg/kg	0.0031	0.00031	1	
1,1-Dichloroethane	ND	mg/kg	0.0015	0.00022	1	
cis-1,2-Dichloroethene	ND	mg/kg	0.0015	0.00027	1	
1,2-Dichloroethene, Total	ND	mg/kg	0.0015	0.00021	1	
Cyclohexane	ND	mg/kg	0.015	0.00083	1	
Bromochloromethane	ND	mg/kg	0.0031	0.00031	1	
Chloroform	ND	mg/kg	0.0023	0.00021	1	
Carbon tetrachloride	ND	mg/kg	0.0015	0.00035	1	
1,1,1-Trichloroethane	ND	mg/kg	0.00076	0.00026	1	
2-Butanone	ND	mg/kg	0.015	0.0034	1	
Benzene	ND	mg/kg	0.00076	0.00025	1	
1,2-Dichloroethane	ND	mg/kg	0.0015	0.00039	1	
Methyl cyclohexane	ND	mg/kg	0.0061	0.00092	1	
Trichloroethene	ND	mg/kg	0.00076	0.00021	1	
1,2-Dichloropropane	ND	mg/kg	0.0015	0.00019	1	



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00076	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.054	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00076	0.00024	1
Toluene	ND		mg/kg	0.0015	0.00083	1
4-Methyl-2-pentanone	ND		mg/kg	0.015	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00076	0.00030	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0015	0.00042	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00076	0.00024	1
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00041	1
Dibromochloromethane	ND		mg/kg	0.0015	0.00021	1
1,2-Dibromoethane	ND		mg/kg	0.00076	0.00045	1
2-Hexanone	ND		mg/kg	0.015	0.0018	1
Chlorobenzene	ND		mg/kg	0.00076	0.00019	1
Ethylbenzene	ND		mg/kg	0.0015	0.00022	1
p/m-Xylene	ND		mg/kg	0.0031	0.00086	1
o-Xylene	ND		mg/kg	0.0015	0.00044	1
Xylenes, Total	ND		mg/kg	0.0015	0.00044	1
Styrene	ND		mg/kg	0.0015	0.00030	1
Bromoform	ND		mg/kg	0.0061	0.00038	1
Isopropylbenzene	ND		mg/kg	0.0015	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00076	0.00025	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00026	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00022	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0046	0.0015	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00042	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00049	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	116		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-04	Date Collected:	12/19/22 10:20
Client ID:	SB2 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 10:37
 Analyst: AJK
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0050	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00042	1
Bromomethane	ND		mg/kg	0.0025	0.00073	1
Chloroethane	ND		mg/kg	0.0025	0.00057	1
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00088	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00030	1
Carbon disulfide	ND		mg/kg	0.013	0.0057	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0050	0.00088	1
Methylene chloride	ND		mg/kg	0.0063	0.0029	1
Acetone	ND		mg/kg	0.032	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00017	1
Methyl Acetate	ND		mg/kg	0.0050	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00022	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00017	1
Cyclohexane	ND		mg/kg	0.013	0.00069	1
Bromochloromethane	ND		mg/kg	0.0025	0.00026	1
Chloroform	ND		mg/kg	0.0019	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00029	1
1,1,1-Trichloroethane	ND		mg/kg	0.00063	0.00021	1
2-Butanone	ND		mg/kg	0.013	0.0028	1
Benzene	ND		mg/kg	0.00063	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00032	1
Methyl cyclohexane	ND		mg/kg	0.0050	0.00076	1
Trichloroethene	ND		mg/kg	0.00063	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00016	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-04	Date Collected:	12/19/22 10:20
Client ID:	SB2 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00063	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.044	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00063	0.00020	1
Toluene	ND		mg/kg	0.0013	0.00068	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00063	0.00025	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00034	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00063	0.00020	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00034	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00063	0.00037	1
2-Hexanone	ND		mg/kg	0.013	0.0015	1
Chlorobenzene	ND		mg/kg	0.00063	0.00016	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0025	0.00071	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Styrene	ND		mg/kg	0.0013	0.00025	1
Bromoform	ND		mg/kg	0.0050	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00063	0.00021	1
1,3-Dichlorobenzene	ND		mg/kg	0.0025	0.00019	1
1,4-Dichlorobenzene	ND		mg/kg	0.0025	0.00022	1
1,2-Dichlorobenzene	ND		mg/kg	0.0025	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0038	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0025	0.00034	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0025	0.00041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	113		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 11:04
 Analyst: AJK
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00047	1
Bromomethane	ND		mg/kg	0.0028	0.00082	1
Chloroethane	ND		mg/kg	0.0028	0.00064	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00098	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0064	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00098	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	ND		mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	ND		mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	ND		mg/kg	0.014	0.00077	1
Bromochloromethane	ND		mg/kg	0.0028	0.00029	1
Chloroform	ND		mg/kg	0.0021	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00024	1
2-Butanone	ND		mg/kg	0.014	0.0031	1
Benzene	ND		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	ND		mg/kg	0.0056	0.00085	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.050	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	ND		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00038	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	0.00068	J	mg/kg	0.0014	0.00020	1
p/m-Xylene	0.0024	J	mg/kg	0.0028	0.00079	1
o-Xylene	0.00070	J	mg/kg	0.0014	0.00041	1
Xylenes, Total	0.0031	J	mg/kg	0.0014	0.00041	1
Styrene	ND		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0056	0.00035	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	113		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-06	Date Collected:	12/19/22 10:45
Client ID:	SB3 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 11:31
 Analyst: AJK
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0058	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00048	1
Bromomethane	ND		mg/kg	0.0029	0.00084	1
Chloroethane	ND		mg/kg	0.0029	0.00065	1
Trichlorofluoromethane	ND		mg/kg	0.0058	0.0010	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0066	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0058	0.0010	1
Methylene chloride	ND		mg/kg	0.0072	0.0033	1
Acetone	ND		mg/kg	0.036	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0022	0.00020	1
Methyl Acetate	ND		mg/kg	0.0058	0.0014	1
Methyl tert butyl ether	ND		mg/kg	0.0029	0.00029	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00020	1
Cyclohexane	ND		mg/kg	0.014	0.00079	1
Bromochloromethane	ND		mg/kg	0.0029	0.00030	1
Chloroform	ND		mg/kg	0.0022	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00033	1
1,1,1-Trichloroethane	ND		mg/kg	0.00072	0.00024	1
2-Butanone	ND		mg/kg	0.014	0.0032	1
Benzene	ND		mg/kg	0.00072	0.00024	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00037	1
Methyl cyclohexane	ND		mg/kg	0.0058	0.00087	1
Trichloroethene	ND		mg/kg	0.00072	0.00020	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-06	Date Collected:	12/19/22 10:45
Client ID:	SB3 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00072	0.00016	1
1,4-Dioxane	ND		mg/kg	0.12	0.051	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00072	0.00023	1
Toluene	ND		mg/kg	0.0014	0.00078	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00072	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00039	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00072	0.00023	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00039	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00072	0.00042	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00072	0.00018	1
Ethylbenzene	ND		mg/kg	0.0014	0.00020	1
p/m-Xylene	ND		mg/kg	0.0029	0.00081	1
o-Xylene	ND		mg/kg	0.0014	0.00042	1
Xylenes, Total	ND		mg/kg	0.0014	0.00042	1
Styrene	ND		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0058	0.00036	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00072	0.00024	1
1,3-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0029	0.00025	1
1,2-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0043	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0029	0.00039	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0029	0.00046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	115		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 11:58
 Analyst: AJK
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0045	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00037	1
Bromomethane	ND		mg/kg	0.0022	0.00065	1
Chloroethane	ND		mg/kg	0.0022	0.00050	1
Trichlorofluoromethane	ND		mg/kg	0.0045	0.00078	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0051	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0045	0.00077	1
Methylene chloride	ND		mg/kg	0.0056	0.0026	1
Acetone	ND		mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00015	1
Methyl Acetate	ND		mg/kg	0.0045	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00061	1
Bromochloromethane	ND		mg/kg	0.0022	0.00023	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00056	0.00019	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00056	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Methyl cyclohexane	ND		mg/kg	0.0045	0.00067	1
Trichloroethene	ND		mg/kg	0.00056	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00056	0.00012	1
1,4-Dioxane	ND		mg/kg	0.089	0.039	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00056	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00061	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00056	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00056	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00033	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00056	0.00014	1
Ethylbenzene	0.00028	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.00075	J	mg/kg	0.0022	0.00062	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	0.00075	J	mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0045	0.00027	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00056	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00030	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	117		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-08	Date Collected:	12/19/22 10:55
Client ID:	SB4 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 12:25
 Analyst: AJK
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0012	1
Chloromethane	ND		mg/kg	0.0055	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00046	1
Bromomethane	ND		mg/kg	0.0027	0.00080	1
Chloroethane	ND		mg/kg	0.0027	0.00062	1
Trichlorofluoromethane	ND		mg/kg	0.0055	0.00095	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00033	1
Carbon disulfide	ND		mg/kg	0.014	0.0062	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0055	0.00095	1
Methylene chloride	ND		mg/kg	0.0069	0.0031	1
Acetone	ND		mg/kg	0.034	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00019	1
Methyl Acetate	ND		mg/kg	0.0055	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	ND		mg/kg	0.014	0.00075	1
Bromochloromethane	ND		mg/kg	0.0027	0.00028	1
Chloroform	ND		mg/kg	0.0020	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00069	0.00023	1
2-Butanone	ND		mg/kg	0.014	0.0030	1
Benzene	ND		mg/kg	0.00069	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00035	1
Methyl cyclohexane	ND		mg/kg	0.0055	0.00083	1
Trichloroethene	ND		mg/kg	0.00069	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00017	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-08	Date Collected:	12/19/22 10:55
Client ID:	SB4 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00069	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.048	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00069	0.00022	1
Toluene	ND		mg/kg	0.0014	0.00074	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00069	0.00027	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00037	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00069	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00037	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00069	0.00040	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00069	0.00017	1
Ethylbenzene	ND		mg/kg	0.0014	0.00019	1
p/m-Xylene	ND		mg/kg	0.0027	0.00077	1
o-Xylene	ND		mg/kg	0.0014	0.00040	1
Xylenes, Total	ND		mg/kg	0.0014	0.00040	1
Styrene	ND		mg/kg	0.0014	0.00027	1
Bromoform	ND		mg/kg	0.0055	0.00034	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00069	0.00023	1
1,3-Dichlorobenzene	ND		mg/kg	0.0027	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0027	0.00023	1
1,2-Dichlorobenzene	ND		mg/kg	0.0027	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0041	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0027	0.00037	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0027	0.00044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	113		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-09	Date Collected:	12/19/22 11:05
Client ID:	SB5 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 12:52
 Analyst: AJK
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0053	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00044	1
Bromomethane	ND		mg/kg	0.0026	0.00076	1
Chloroethane	ND		mg/kg	0.0026	0.00059	1
Trichlorofluoromethane	ND		mg/kg	0.0053	0.00091	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00031	1
Carbon disulfide	ND		mg/kg	0.013	0.0060	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0053	0.00091	1
Methylene chloride	ND		mg/kg	0.0066	0.0030	1
Acetone	ND		mg/kg	0.033	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00018	1
Methyl Acetate	ND		mg/kg	0.0053	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00019	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00023	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00018	1
Cyclohexane	ND		mg/kg	0.013	0.00072	1
Bromochloromethane	ND		mg/kg	0.0026	0.00027	1
Chloroform	0.0017	J	mg/kg	0.0020	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00030	1
1,1,1-Trichloroethane	ND		mg/kg	0.00066	0.00022	1
2-Butanone	ND		mg/kg	0.013	0.0029	1
Benzene	ND		mg/kg	0.00066	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Methyl cyclohexane	0.0013	J	mg/kg	0.0053	0.00079	1
Trichloroethene	ND		mg/kg	0.00066	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00016	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-09	Date Collected:	12/19/22 11:05
Client ID:	SB5 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00066	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.046	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00066	0.00021	1
Toluene	ND		mg/kg	0.0013	0.00071	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0017	1
Tetrachloroethene	ND		mg/kg	0.00066	0.00026	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00036	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00066	0.00021	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00035	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00066	0.00038	1
2-Hexanone	ND		mg/kg	0.013	0.0016	1
Chlorobenzene	ND		mg/kg	0.00066	0.00017	1
Ethylbenzene	0.014		mg/kg	0.0013	0.00018	1
p/m-Xylene	0.057		mg/kg	0.0026	0.00074	1
o-Xylene	0.013		mg/kg	0.0013	0.00038	1
Xylenes, Total	0.070		mg/kg	0.0013	0.00038	1
Styrene	ND		mg/kg	0.0013	0.00026	1
Bromoform	ND		mg/kg	0.0053	0.00032	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00066	0.00022	1
1,3-Dichlorobenzene	ND		mg/kg	0.0026	0.00019	1
1,4-Dichlorobenzene	ND		mg/kg	0.0026	0.00022	1
1,2-Dichlorobenzene	ND		mg/kg	0.0026	0.00019	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0039	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0026	0.00036	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0026	0.00042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	113		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-10	Date Collected:	12/19/22 11:10
Client ID:	SB5 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 13:19
 Analyst: AJK
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0053	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00045	1
Bromomethane	ND		mg/kg	0.0027	0.00077	1
Chloroethane	ND		mg/kg	0.0027	0.00060	1
Trichlorofluoromethane	ND		mg/kg	0.0053	0.00093	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00032	1
Carbon disulfide	ND		mg/kg	0.013	0.0061	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0053	0.00092	1
Methylene chloride	0.0035	J	mg/kg	0.0067	0.0030	1
Acetone	ND		mg/kg	0.033	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00018	1
Methyl Acetate	0.0039	J	mg/kg	0.0053	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00027	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00019	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00023	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00018	1
Cyclohexane	ND		mg/kg	0.013	0.00072	1
Bromochloromethane	ND		mg/kg	0.0027	0.00027	1
Chloroform	0.0026		mg/kg	0.0020	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00031	1
1,1,1-Trichloroethane	ND		mg/kg	0.00067	0.00022	1
2-Butanone	ND		mg/kg	0.013	0.0030	1
Benzene	ND		mg/kg	0.00067	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Methyl cyclohexane	ND		mg/kg	0.0053	0.00080	1
Trichloroethene	ND		mg/kg	0.00067	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00017	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-10	Date Collected:	12/19/22 11:10
Client ID:	SB5 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00067	0.00014	1
1,4-Dioxane	ND		mg/kg	0.11	0.047	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00067	0.00021	1
Toluene	ND		mg/kg	0.0013	0.00072	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0017	1
Tetrachloroethene	ND		mg/kg	0.00067	0.00026	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00036	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00067	0.00021	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00036	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00067	0.00039	1
2-Hexanone	ND		mg/kg	0.013	0.0016	1
Chlorobenzene	ND		mg/kg	0.00067	0.00017	1
Ethylbenzene	ND		mg/kg	0.0013	0.00019	1
p/m-Xylene	ND		mg/kg	0.0027	0.00075	1
o-Xylene	ND		mg/kg	0.0013	0.00039	1
Xylenes, Total	ND		mg/kg	0.0013	0.00039	1
Styrene	ND		mg/kg	0.0013	0.00026	1
Bromoform	ND		mg/kg	0.0053	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00067	0.00022	1
1,3-Dichlorobenzene	ND		mg/kg	0.0027	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0027	0.00023	1
1,2-Dichlorobenzene	ND		mg/kg	0.0027	0.00019	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0040	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0027	0.00036	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0027	0.00043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	113		70-130



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 13:47
 Analyst: AJK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.020	0.0018	1
Chloromethane	ND		mg/kg	0.0080	0.0019	1
Vinyl chloride	ND		mg/kg	0.0020	0.00067	1
Bromomethane	ND		mg/kg	0.0040	0.0012	1
Chloroethane	ND		mg/kg	0.0040	0.00090	1
Trichlorofluoromethane	ND		mg/kg	0.0080	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0020	0.00048	1
Carbon disulfide	ND		mg/kg	0.020	0.0091	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0080	0.0014	1
Methylene chloride	ND		mg/kg	0.010	0.0046	1
Acetone	0.051		mg/kg	0.050	0.020	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0030	0.00027	1
Methyl Acetate	0.0019	J	mg/kg	0.0080	0.0019	1
Methyl tert butyl ether	ND		mg/kg	0.0040	0.00040	1
1,1-Dichloroethane	ND		mg/kg	0.0020	0.00029	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00035	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0020	0.00027	1
Cyclohexane	ND		mg/kg	0.020	0.0011	1
Bromochloromethane	ND		mg/kg	0.0040	0.00041	1
Chloroform	ND		mg/kg	0.0030	0.00028	1
Carbon tetrachloride	ND		mg/kg	0.0020	0.00046	1
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00033	1
2-Butanone	ND		mg/kg	0.020	0.0044	1
Benzene	ND		mg/kg	0.0010	0.00033	1
1,2-Dichloroethane	ND		mg/kg	0.0020	0.00051	1
Methyl cyclohexane	ND		mg/kg	0.0080	0.0012	1
Trichloroethene	ND		mg/kg	0.0010	0.00027	1
1,2-Dichloropropane	ND		mg/kg	0.0020	0.00025	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0010	0.00022	1
1,4-Dioxane	ND		mg/kg	0.16	0.070	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00032	1
Toluene	ND		mg/kg	0.0020	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.020	0.0026	1
Tetrachloroethene	ND		mg/kg	0.0010	0.00039	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0020	0.00055	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00032	1
1,1,2-Trichloroethane	ND		mg/kg	0.0020	0.00053	1
Dibromochloromethane	ND		mg/kg	0.0020	0.00028	1
1,2-Dibromoethane	ND		mg/kg	0.0010	0.00059	1
2-Hexanone	ND		mg/kg	0.020	0.0024	1
Chlorobenzene	ND		mg/kg	0.0010	0.00025	1
Ethylbenzene	0.0012	J	mg/kg	0.0020	0.00028	1
p/m-Xylene	0.0064		mg/kg	0.0040	0.0011	1
o-Xylene	0.0020		mg/kg	0.0020	0.00058	1
Xylenes, Total	0.0084		mg/kg	0.0020	0.00058	1
Styrene	ND		mg/kg	0.0020	0.00039	1
Bromoform	ND		mg/kg	0.0080	0.00049	1
Isopropylbenzene	ND		mg/kg	0.0020	0.00022	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00033	1
1,3-Dichlorobenzene	ND		mg/kg	0.0040	0.00030	1
1,4-Dichlorobenzene	ND		mg/kg	0.0040	0.00034	1
1,2-Dichlorobenzene	ND		mg/kg	0.0040	0.00029	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0060	0.0020	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0040	0.00054	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0040	0.00064	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	116		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-12	Date Collected:	12/19/22 11:20
Client ID:	SB6 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 14:14
 Analyst: AJK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00046	1
Bromomethane	ND		mg/kg	0.0028	0.00081	1
Chloroethane	ND		mg/kg	0.0028	0.00063	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00097	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00033	1
Carbon disulfide	ND		mg/kg	0.014	0.0063	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00096	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	ND		mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	0.0019	J	mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	ND		mg/kg	0.014	0.00076	1
Bromochloromethane	ND		mg/kg	0.0028	0.00028	1
Chloroform	ND		mg/kg	0.0021	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00023	1
2-Butanone	ND		mg/kg	0.014	0.0031	1
Benzene	ND		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	ND		mg/kg	0.0056	0.00084	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00017	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-12	Date Collected:	12/19/22 11:20
Client ID:	SB6 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	ND		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00027	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00037	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	ND		mg/kg	0.0014	0.00020	1
p/m-Xylene	ND		mg/kg	0.0028	0.00078	1
o-Xylene	ND		mg/kg	0.0014	0.00040	1
Xylenes, Total	ND		mg/kg	0.0014	0.00040	1
Styrene	ND		mg/kg	0.0014	0.00027	1
Bromoform	ND		mg/kg	0.0056	0.00034	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	116		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 14:41
 Analyst: AJK
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0011	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00066	1
Chloroethane	ND		mg/kg	0.0023	0.00052	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00079	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00027	1
Carbon disulfide	ND		mg/kg	0.011	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00079	1
Methylene chloride	ND		mg/kg	0.0057	0.0026	1
Acetone	ND		mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00016	1
Cyclohexane	ND		mg/kg	0.011	0.00062	1
Bromochloromethane	ND		mg/kg	0.0023	0.00023	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00057	0.00019	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00069	1
Trichloroethene	ND		mg/kg	0.00057	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00057	0.00012	1
1,4-Dioxane	ND		mg/kg	0.091	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00057	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00057	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00057	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00057	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00057	0.00019	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	116		70-130

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-14	Date Collected:	12/19/22 11:35
Client ID:	SB7 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 15:09
 Analyst: AJK
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0044	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00037	1
Bromomethane	ND		mg/kg	0.0022	0.00064	1
Chloroethane	ND		mg/kg	0.0022	0.00050	1
Trichlorofluoromethane	ND		mg/kg	0.0044	0.00077	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0050	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0044	0.00076	1
Methylene chloride	ND		mg/kg	0.0055	0.0025	1
Acetone	0.011	J	mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00015	1
Methyl Acetate	0.0019	J	mg/kg	0.0044	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00060	1
Bromochloromethane	ND		mg/kg	0.0022	0.00023	1
Chloroform	ND		mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00025	1
1,1,1-Trichloroethane	ND		mg/kg	0.00055	0.00018	1
2-Butanone	ND		mg/kg	0.011	0.0024	1
Benzene	ND		mg/kg	0.00055	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Methyl cyclohexane	ND		mg/kg	0.0044	0.00066	1
Trichloroethene	ND		mg/kg	0.00055	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-14	Date Collected:	12/19/22 11:35
Client ID:	SB7 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00055	0.00012	1
1,4-Dioxane	ND		mg/kg	0.088	0.039	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00055	0.00017	1
Toluene	ND		mg/kg	0.0011	0.00060	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00055	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00055	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00029	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00055	0.00032	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00055	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0022	0.00062	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0044	0.00027	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00055	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00030	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	116		70-130



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-15	Date Collected:	12/19/22 11:45
Client ID:	SB8 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 15:36
 Analyst: AJK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0065	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00055	1
Bromomethane	ND		mg/kg	0.0033	0.00095	1
Chloroethane	ND		mg/kg	0.0033	0.00074	1
Trichlorofluoromethane	ND		mg/kg	0.0065	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00039	1
Carbon disulfide	ND		mg/kg	0.016	0.0074	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0065	0.0011	1
Methylene chloride	0.014		mg/kg	0.0082	0.0037	1
Acetone	0.070		mg/kg	0.041	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0065	0.0016	1
Methyl tert butyl ether	ND		mg/kg	0.0033	0.00033	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00029	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00089	1
Bromochloromethane	ND		mg/kg	0.0033	0.00034	1
Chloroform	ND		mg/kg	0.0024	0.00023	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00038	1
1,1,1-Trichloroethane	ND		mg/kg	0.00082	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	ND		mg/kg	0.00082	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Methyl cyclohexane	ND		mg/kg	0.0065	0.00099	1
Trichloroethene	ND		mg/kg	0.00082	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-15	Date Collected:	12/19/22 11:45
Client ID:	SB8 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00082	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.057	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00082	0.00026	1
Toluene	ND		mg/kg	0.0016	0.00089	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00082	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00045	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00082	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00044	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00023	1
1,2-Dibromoethane	ND		mg/kg	0.00082	0.00048	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00082	0.00021	1
Ethylbenzene	ND		mg/kg	0.0016	0.00023	1
p/m-Xylene	ND		mg/kg	0.0033	0.00092	1
o-Xylene	ND		mg/kg	0.0016	0.00048	1
Xylenes, Total	ND		mg/kg	0.0016	0.00048	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0065	0.00040	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00082	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0033	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0049	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0033	0.00044	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0033	0.00053	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	79		70-130



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-16	Date Collected:	12/19/22 11:55
Client ID:	SB8 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/22/22 16:03
 Analyst: AJK
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0014	1
Chloromethane	ND		mg/kg	0.0063	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00053	1
Bromomethane	ND		mg/kg	0.0031	0.00091	1
Chloroethane	ND		mg/kg	0.0031	0.00071	1
Trichlorofluoromethane	ND		mg/kg	0.0063	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00037	1
Carbon disulfide	ND		mg/kg	0.016	0.0072	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0063	0.0011	1
Methylene chloride	ND		mg/kg	0.0079	0.0036	1
Acetone	ND		mg/kg	0.039	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0063	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00086	1
Bromochloromethane	ND		mg/kg	0.0031	0.00032	1
Chloroform	ND		mg/kg	0.0024	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00036	1
1,1,1-Trichloroethane	ND		mg/kg	0.00079	0.00026	1
2-Butanone	ND		mg/kg	0.016	0.0035	1
Benzene	ND		mg/kg	0.00079	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00040	1
Methyl cyclohexane	ND		mg/kg	0.0063	0.00095	1
Trichloroethene	ND		mg/kg	0.00079	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-16	Date Collected:	12/19/22 11:55
Client ID:	SB8 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00079	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.055	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00079	0.00025	1
Toluene	ND		mg/kg	0.0016	0.00085	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00079	0.00031	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00043	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00079	0.00025	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00042	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00079	0.00046	1
2-Hexanone	ND		mg/kg	0.016	0.0018	1
Chlorobenzene	ND		mg/kg	0.00079	0.00020	1
Ethylbenzene	ND		mg/kg	0.0016	0.00022	1
p/m-Xylene	ND		mg/kg	0.0031	0.00088	1
o-Xylene	ND		mg/kg	0.0016	0.00046	1
Xylenes, Total	ND		mg/kg	0.0016	0.00046	1
Styrene	ND		mg/kg	0.0016	0.00031	1
Bromoform	ND		mg/kg	0.0063	0.00039	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00079	0.00026	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00027	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0047	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00043	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00051	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	117		70-130

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/22/22 08:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):	01-16		Batch:	WG1726861-5	
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	0.0016	J	mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/22/22 08:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):		01-16	Batch:	WG1726861-5	
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/22/22 08:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s):	01-16	Batch:	WG1726861-5		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-16 Batch: WG1726861-3 WG1726861-4								
Dichlorodifluoromethane	71		73		30-146	3		30
Chloromethane	87		87		52-130	0		30
Vinyl chloride	71		73		67-130	3		30
Bromomethane	104		108		57-147	4		30
Chloroethane	78		78		50-151	0		30
Trichlorofluoromethane	83		80		70-139	4		30
1,1-Dichloroethene	71		71		65-135	0		30
Carbon disulfide	45	Q	45	Q	59-130	0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	77		76		50-139	1		30
Methylene chloride	60	Q	73		70-130	20		30
Acetone	115		110		54-140	4		30
trans-1,2-Dichloroethene	83		84		70-130	1		30
Methyl Acetate	99		100		51-146	1		30
Methyl tert butyl ether	83		84		66-130	1		30
1,1-Dichloroethane	78		79		70-130	1		30
cis-1,2-Dichloroethene	80		81		70-130	1		30
Cyclohexane	82		81		59-142	1		30
Bromochloromethane	94		97		70-130	3		30
Chloroform	77		78		70-130	1		30
Carbon tetrachloride	83		84		70-130	1		30
1,1,1-Trichloroethane	80		81		70-130	1		30
2-Butanone	95		97		70-130	2		30
Benzene	76		77		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN

Project Number: 1069022

Lab Number: L2271474

Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-16 Batch: WG1726861-3 WG1726861-4								
1,2-Dichloroethane	79		82		70-130	4		30
Methyl cyclohexane	76		77		70-130	1		30
Trichloroethene	79		82		70-130	4		30
1,2-Dichloropropane	81		80		70-130	1		30
Bromodichloromethane	80		82		70-130	2		30
1,4-Dioxane	101		100		65-136	1		30
cis-1,3-Dichloropropene	81		83		70-130	2		30
Toluene	73		74		70-130	1		30
4-Methyl-2-pentanone	85		82		70-130	4		30
Tetrachloroethene	85		85		70-130	0		30
trans-1,3-Dichloropropene	79		80		70-130	1		30
1,1,2-Trichloroethane	83		83		70-130	0		30
Dibromochloromethane	89		89		70-130	0		30
1,2-Dibromoethane	87		87		70-130	0		30
2-Hexanone	89		89		70-130	0		30
Chlorobenzene	81		82		70-130	1		30
Ethylbenzene	75		75		70-130	0		30
p/m-Xylene	80		79		70-130	1		30
o-Xylene	78		78		70-130	0		30
Styrene	80		80		70-130	0		30
Bromoform	82		82		70-130	0		30
Isopropylbenzene	73		75		70-130	3		30
1,1,2,2-Tetrachloroethane	79		79		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	<i>LCS</i> %Recovery	Qual	<i>LCSD</i> %Recovery	Qual	%Recovery Limits	RPD	Qual	<i>RPD</i> Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-16 Batch: WG1726861-3 WG1726861-4								
1,3-Dichlorobenzene	84		85		70-130	1		30
1,4-Dichlorobenzene	83		85		70-130	2		30
1,2-Dichlorobenzene	86		90		70-130	5		30
1,2-Dibromo-3-chloropropane	91		89		68-130	2		30
1,2,4-Trichlorobenzene	99		102		70-130	3		30
1,2,3-Trichlorobenzene	98		102		70-130	4		30

Surrogate	<i>LCS</i> %Recovery	Qual	<i>LCSD</i> %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	85		86		70-130
Dibromofluoromethane	107		110		70-130

SEMIVOLATILES



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	D	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	01/05/23 04:17		
Analyst:	IM		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.3	0.27	5
Phenol	ND		mg/kg	1.0	0.15	5
2-Chlorophenol	ND		mg/kg	1.0	0.12	5
2-Methylphenol	ND		mg/kg	1.0	0.16	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.2	0.17	5
Acetophenone	ND		mg/kg	1.0	0.12	5
1,4-Dioxane	ND		mg/kg	0.15	0.046	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.4	0.16	5
Hexachloroethane	ND		mg/kg	0.81	0.16	5
Nitrobenzene	ND		mg/kg	0.91	0.15	5
Isophorone	ND		mg/kg	0.91	0.13	5
2-Nitrophenol	ND		mg/kg	2.2	0.38	5
2,4-Dimethylphenol	ND		mg/kg	1.0	0.33	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.1	0.10	5
2,4-Dichlorophenol	ND		mg/kg	0.91	0.16	5
Naphthalene	1.4		mg/kg	0.20	0.12	5
4-Chloroaniline	ND		mg/kg	1.0	0.18	5
Hexachlorobutadiene	ND		mg/kg	1.0	0.15	5
Caprolactam	ND		mg/kg	1.0	0.31	5
p-Chloro-m-cresol	ND		mg/kg	1.0	0.15	5
2-Methylnaphthalene	0.55	J	mg/kg	1.2	0.12	5
Hexachlorocyclopentadiene	ND		mg/kg	2.9	0.92	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.0	0.10	5
2,4,6-Trichlorophenol	ND		mg/kg	0.61	0.19	5
2,4,5-Trichlorophenol	ND		mg/kg	1.0	0.19	5
Biphenyl	0.14	J	mg/kg	2.3	0.13	5
2-Chloronaphthalene	ND		mg/kg	1.0	0.10	5
2-Nitroaniline	ND		mg/kg	1.0	0.19	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	D	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	1.0	0.21	5
2,6-Dinitrotoluene	ND		mg/kg	1.0	0.17	5
Acenaphthylene	1.8		mg/kg	0.81	0.16	5
3-Nitroaniline	ND		mg/kg	1.0	0.19	5
Acenaphthene	1.4		mg/kg	0.81	0.10	5
2,4-Dinitrophenol	ND		mg/kg	4.8	0.47	5
4-Nitrophenol	ND		mg/kg	1.4	0.41	5
2,4-Dinitrotoluene	ND		mg/kg	1.0	0.20	5
Dibenzofuran	1.2		mg/kg	1.0	0.096	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	1.0	0.20	5
Diethyl phthalate	ND		mg/kg	1.0	0.094	5
Fluorene	1.4		mg/kg	1.0	0.098	5
4-Chlorophenyl phenyl ether	ND		mg/kg	1.0	0.11	5
4-Nitroaniline	ND		mg/kg	1.0	0.42	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.6	0.48	5
NDPA/DPA	ND		mg/kg	0.81	0.12	5
4-Bromophenyl phenyl ether	ND		mg/kg	1.0	0.15	5
Hexachlorobenzene	ND		mg/kg	0.61	0.11	5
Pentachlorophenol	ND		mg/kg	0.81	0.22	5
Atrazine	ND		mg/kg	0.81	0.35	5
Phenanthrene	18.		mg/kg	0.61	0.12	5
Anthracene	4.4		mg/kg	0.61	0.20	5
Carbazole	2.0		mg/kg	1.0	0.098	5
Di-n-butylphthalate	ND		mg/kg	1.0	0.19	5
Fluoranthene	23.		mg/kg	0.61	0.12	5
Pyrene	19.		mg/kg	0.61	0.10	5
Butyl benzyl phthalate	ND		mg/kg	1.0	0.25	5
3,3'-Dichlorobenzidine	ND		mg/kg	1.0	0.27	5
Benzo(a)anthracene	12.		mg/kg	0.61	0.11	5
Chrysene	11.		mg/kg	0.61	0.10	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	1.0	0.35	5
Di-n-octylphthalate	ND		mg/kg	1.0	0.34	5
Benzo(b)fluoranthene	13.		mg/kg	0.61	0.17	5
Benzo(k)fluoranthene	4.6		mg/kg	0.61	0.16	5
Benzo(a)pyrene	10.		mg/kg	0.81	0.25	5
Indeno(1,2,3-cd)pyrene	7.4		mg/kg	0.81	0.14	5
Dibenzo(a,h)anthracene	1.5		mg/kg	0.61	0.12	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	D	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	6.1		mg/kg	0.81	0.12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	103		25-120
Phenol-d6	105		10-120
Nitrobenzene-d5	126	Q	23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	126		10-136
4-Terphenyl-d14	86		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	D	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 11:42		
Analyst:	DV		
Percent Solids:	81%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.20	0.056	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.20	0.053	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	91		30-120
4-Terphenyl-d14	89		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-02	D	Date Collected:	12/19/22 10:05
Client ID:	SB1 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	12/31/22 06:12		
Analyst:	MG		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.2	0.26	5
Phenol	ND		mg/kg	0.95	0.14	5
2-Chlorophenol	ND		mg/kg	0.95	0.11	5
2-Methylphenol	ND		mg/kg	0.95	0.15	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.1	0.16	5
Acetophenone	ND		mg/kg	0.95	0.12	5
1,4-Dioxane	ND		mg/kg	0.14	0.043	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.4	0.15	5
Hexachloroethane	ND		mg/kg	0.76	0.15	5
Nitrobenzene	ND		mg/kg	0.85	0.14	5
Isophorone	ND		mg/kg	0.85	0.12	5
2-Nitrophenol	ND		mg/kg	2.0	0.36	5
2,4-Dimethylphenol	ND		mg/kg	0.95	0.31	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.0	0.095	5
2,4-Dichlorophenol	ND		mg/kg	0.85	0.15	5
Naphthalene	0.26		mg/kg	0.19	0.12	5
4-Chloroaniline	ND		mg/kg	0.95	0.17	5
Hexachlorobutadiene	ND		mg/kg	0.95	0.14	5
Caprolactam	ND		mg/kg	0.95	0.29	5
p-Chloro-m-cresol	ND		mg/kg	0.95	0.14	5
2-Methylnaphthalene	0.17	J	mg/kg	1.1	0.11	5
Hexachlorocyclopentadiene	ND		mg/kg	2.7	0.86	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.95	0.099	5
2,4,6-Trichlorophenol	ND		mg/kg	0.57	0.18	5
2,4,5-Trichlorophenol	ND		mg/kg	0.95	0.18	5
Biphenyl	ND		mg/kg	2.2	0.12	5
2-Chloronaphthalene	ND		mg/kg	0.95	0.094	5
2-Nitroaniline	ND		mg/kg	0.95	0.18	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-02	D	Date Collected:	12/19/22 10:05
Client ID:	SB1 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.95	0.20	5
2,6-Dinitrotoluene	ND		mg/kg	0.95	0.16	5
Acenaphthylene	0.16	J	mg/kg	0.76	0.15	5
3-Nitroaniline	ND		mg/kg	0.95	0.18	5
Acenaphthene	0.50	J	mg/kg	0.76	0.098	5
2,4-Dinitrophenol	ND		mg/kg	4.5	0.44	5
4-Nitrophenol	ND		mg/kg	1.3	0.39	5
2,4-Dinitrotoluene	ND		mg/kg	0.95	0.19	5
Dibenzofuran	0.46	J	mg/kg	0.95	0.090	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.95	0.19	5
Diethyl phthalate	ND		mg/kg	0.95	0.088	5
Fluorene	0.52	J	mg/kg	0.95	0.092	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.95	0.10	5
4-Nitroaniline	ND		mg/kg	0.95	0.39	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.5	0.45	5
NDPA/DPA	ND		mg/kg	0.76	0.11	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.95	0.14	5
Hexachlorobenzene	ND		mg/kg	0.57	0.10	5
Pentachlorophenol	ND		mg/kg	0.76	0.21	5
Atrazine	ND		mg/kg	0.76	0.33	5
Phenanthrene	4.7		mg/kg	0.57	0.12	5
Anthracene	1.2		mg/kg	0.57	0.18	5
Carbazole	0.60	J	mg/kg	0.95	0.092	5
Di-n-butylphthalate	ND		mg/kg	0.95	0.18	5
Fluoranthene	4.5		mg/kg	0.57	0.11	5
Pyrene	3.7		mg/kg	0.57	0.094	5
Butyl benzyl phthalate	ND		mg/kg	0.95	0.24	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.95	0.25	5
Benzo(a)anthracene	2.4		mg/kg	0.57	0.11	5
Chrysene	2.1		mg/kg	0.57	0.098	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.95	0.33	5
Di-n-octylphthalate	ND		mg/kg	0.95	0.32	5
Benzo(b)fluoranthene	2.2		mg/kg	0.57	0.16	5
Benzo(k)fluoranthene	0.68		mg/kg	0.57	0.15	5
Benzo(a)pyrene	1.8		mg/kg	0.76	0.23	5
Indeno(1,2,3-cd)pyrene	0.93		mg/kg	0.76	0.13	5
Dibenzo(a,h)anthracene	0.25	J	mg/kg	0.57	0.11	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-02	D	Date Collected:	12/19/22 10:05
Client ID:	SB1 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.73	J	mg/kg	0.76	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	73		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-02	D	Date Collected:	12/19/22 10:05
Client ID:	SB1 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 11:59		
Analyst:	DV		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.19	0.053	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.19	0.050	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	68		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	D2	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	01/05/23 13:46		
Analyst:	LJG		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	130	mg/kg	13	2.7	100	
Fluoranthene	220	mg/kg	13	2.5	100	
Pyrene	190	mg/kg	13	2.2	100	
Benzo(a)anthracene	110	mg/kg	13	2.5	100	
Chrysene	98.	mg/kg	13	2.3	100	
Benzo(b)fluoranthene	110	mg/kg	13	3.7	100	
Benzo(a)pyrene	92.	mg/kg	18	5.4	100	
Indeno(1,2,3-cd)pyrene	59.	mg/kg	18	3.0	100	
Benzo(ghi)perylene	49.	mg/kg	18	2.6	100	

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	D	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	12/31/22 09:02		
Analyst:	IM		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.4	0.30	5
Phenol	1.1		mg/kg	1.1	0.16	5
2-Chlorophenol	ND		mg/kg	1.1	0.13	5
2-Methylphenol	0.44	J	mg/kg	1.1	0.17	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.3	0.19	5
Acetophenone	ND		mg/kg	1.1	0.14	5
1,4-Dioxane	ND		mg/kg	0.16	0.050	5
3-Methylphenol/4-Methylphenol	1.7		mg/kg	1.6	0.17	5
Hexachloroethane	ND		mg/kg	0.88	0.18	5
Nitrobenzene	ND		mg/kg	0.99	0.16	5
Isophorone	ND		mg/kg	0.99	0.14	5
2-Nitrophenol	ND		mg/kg	2.4	0.41	5
2,4-Dimethylphenol	ND		mg/kg	1.1	0.36	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.2	0.11	5
2,4-Dichlorophenol	ND		mg/kg	0.99	0.18	5
Naphthalene	5.5		mg/kg	0.22	0.13	5
4-Chloroaniline	ND		mg/kg	1.1	0.20	5
Hexachlorobutadiene	ND		mg/kg	1.1	0.16	5
Caprolactam	ND		mg/kg	1.1	0.33	5
p-Chloro-m-cresol	ND		mg/kg	1.1	0.16	5
2-Methylnaphthalene	1.8		mg/kg	1.3	0.13	5
Hexachlorocyclopentadiene	ND		mg/kg	3.1	0.99	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.1	0.11	5
2,4,6-Trichlorophenol	ND		mg/kg	0.66	0.21	5
2,4,5-Trichlorophenol	ND		mg/kg	1.1	0.21	5
Biphenyl	0.55	J	mg/kg	2.5	0.14	5
2-Chloronaphthalene	ND		mg/kg	1.1	0.11	5
2-Nitroaniline	ND		mg/kg	1.1	0.21	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	D	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	1.1	0.23	5
2,6-Dinitrotoluene	ND		mg/kg	1.1	0.19	5
Acenaphthylene	21.		mg/kg	0.88	0.17	5
3-Nitroaniline	ND		mg/kg	1.1	0.21	5
Acenaphthene	8.0		mg/kg	0.88	0.11	5
2,4-Dinitrophenol	ND		mg/kg	5.3	0.51	5
4-Nitrophenol	ND		mg/kg	1.5	0.45	5
2,4-Dinitrotoluene	ND		mg/kg	1.1	0.22	5
Dibenzofuran	6.1		mg/kg	1.1	0.10	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	1.1	0.22	5
Diethyl phthalate	ND		mg/kg	1.1	0.10	5
Fluorene	12.		mg/kg	1.1	0.11	5
4-Chlorophenyl phenyl ether	ND		mg/kg	1.1	0.12	5
4-Nitroaniline	ND		mg/kg	1.1	0.45	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.8	0.53	5
NDPA/DPA	ND		mg/kg	0.88	0.12	5
4-Bromophenyl phenyl ether	ND		mg/kg	1.1	0.17	5
Hexachlorobenzene	ND		mg/kg	0.66	0.12	5
Pentachlorophenol	ND		mg/kg	0.88	0.24	5
Atrazine	ND		mg/kg	0.88	0.38	5
Phenanthrene	110	E	mg/kg	0.66	0.13	5
Anthracene	40.		mg/kg	0.66	0.21	5
Carbazole	12.		mg/kg	1.1	0.11	5
Di-n-butylphthalate	ND		mg/kg	1.1	0.21	5
Fluoranthene	150	E	mg/kg	0.66	0.12	5
Pyrene	140	E	mg/kg	0.66	0.11	5
Butyl benzyl phthalate	ND		mg/kg	1.1	0.28	5
3,3'-Dichlorobenzidine	ND		mg/kg	1.1	0.29	5
Benzo(a)anthracene	120	E	mg/kg	0.66	0.12	5
Chrysene	84.	E	mg/kg	0.66	0.11	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	1.1	0.38	5
Di-n-octylphthalate	ND		mg/kg	1.1	0.37	5
Benzo(b)fluoranthene	120	E	mg/kg	0.66	0.18	5
Benzo(k)fluoranthene	21.		mg/kg	0.66	0.18	5
Benzo(a)pyrene	87.	E	mg/kg	0.88	0.27	5
Indeno(1,2,3-cd)pyrene	66.	E	mg/kg	0.88	0.15	5
Dibenzo(a,h)anthracene	10.		mg/kg	0.66	0.13	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	D	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	54.	E	mg/kg	0.88	0.13	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	83		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	D	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 12:15		
Analyst:	DV		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.22	0.061	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.22	0.058	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	88		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-04
 Client ID: SB2 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:20
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/31/22 05:49
 Analyst: MG
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.054	1
Phenol	ND		mg/kg	0.20	0.030	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.034	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0091	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.031	1
Hexachloroethane	ND		mg/kg	0.16	0.032	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.43	0.075	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.066	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.032	1
Naphthalene	0.089		mg/kg	0.040	0.024	1
4-Chloroaniline	ND		mg/kg	0.20	0.036	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.029	1
Caprolactam	ND		mg/kg	0.20	0.061	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	0.053	J	mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.57	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.038	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.038	1
Biphenyl	ND		mg/kg	0.46	0.026	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-04	Date Collected:	12/19/22 10:20
Client ID:	SB2 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.20	0.042	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.034	1
Acenaphthylene	ND		mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	0.11	J	mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.96	0.093	1
4-Nitrophenol	ND		mg/kg	0.28	0.082	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.040	1
Dibenzofuran	0.075	J	mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.040	1
Diethyl phthalate	ND		mg/kg	0.20	0.018	1
Fluorene	0.084	J	mg/kg	0.20	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.021	1
4-Nitroaniline	ND		mg/kg	0.20	0.083	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.52	0.096	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.044	1
Atrazine	ND		mg/kg	0.16	0.070	1
Phenanthrene	0.77		mg/kg	0.12	0.024	1
Anthracene	0.18		mg/kg	0.12	0.039	1
Carbazole	0.073	J	mg/kg	0.20	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.038	1
Fluoranthene	0.92		mg/kg	0.12	0.023	1
Pyrene	0.77		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.050	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.053	1
Benzo(a)anthracene	0.53		mg/kg	0.12	0.022	1
Chrysene	0.48		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.069	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.068	1
Benzo(b)fluoranthene	0.54		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	0.16		mg/kg	0.12	0.032	1
Benzo(a)pyrene	0.42		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	0.22		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	0.063	J	mg/kg	0.12	0.023	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-04
 Client ID: SB2 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:20
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.17		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	84		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-04
Client ID: SB2 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:20
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E-SIM
Analytical Date: 01/03/23 12:31
Analyst: DV
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/27/22 02:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.040	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.040	0.010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	72		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	D	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	12/31/22 08:14		
Analyst:	MG		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.3	0.26	5
Phenol	ND		mg/kg	0.97	0.15	5
2-Chlorophenol	ND		mg/kg	0.97	0.12	5
2-Methylphenol	ND		mg/kg	0.97	0.15	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.2	0.17	5
Acetophenone	ND		mg/kg	0.97	0.12	5
1,4-Dioxane	ND		mg/kg	0.15	0.044	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.4	0.15	5
Hexachloroethane	ND		mg/kg	0.78	0.16	5
Nitrobenzene	ND		mg/kg	0.88	0.14	5
Isophorone	ND		mg/kg	0.88	0.13	5
2-Nitrophenol	ND		mg/kg	2.1	0.37	5
2,4-Dimethylphenol	ND		mg/kg	0.97	0.32	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.0	0.098	5
2,4-Dichlorophenol	ND		mg/kg	0.88	0.16	5
Naphthalene	0.35		mg/kg	0.19	0.12	5
4-Chloroaniline	ND		mg/kg	0.97	0.18	5
Hexachlorobutadiene	ND		mg/kg	0.97	0.14	5
Caprolactam	ND		mg/kg	0.97	0.30	5
p-Chloro-m-cresol	ND		mg/kg	0.97	0.14	5
2-Methylnaphthalene	0.24	J	mg/kg	1.2	0.12	5
Hexachlorocyclopentadiene	ND		mg/kg	2.8	0.88	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.97	0.10	5
2,4,6-Trichlorophenol	ND		mg/kg	0.58	0.18	5
2,4,5-Trichlorophenol	ND		mg/kg	0.97	0.19	5
Biphenyl	ND		mg/kg	2.2	0.13	5
2-Chloronaphthalene	ND		mg/kg	0.97	0.096	5
2-Nitroaniline	ND		mg/kg	0.97	0.19	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	D	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.97	0.20	5
2,6-Dinitrotoluene	ND		mg/kg	0.97	0.17	5
Acenaphthylene	0.40	J	mg/kg	0.78	0.15	5
3-Nitroaniline	ND		mg/kg	0.97	0.18	5
Acenaphthene	0.50	J	mg/kg	0.78	0.10	5
2,4-Dinitrophenol	ND		mg/kg	4.7	0.45	5
4-Nitrophenol	ND		mg/kg	1.4	0.40	5
2,4-Dinitrotoluene	ND		mg/kg	0.97	0.19	5
Dibenzofuran	0.39	J	mg/kg	0.97	0.092	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.97	0.20	5
Diethyl phthalate	ND		mg/kg	0.97	0.090	5
Fluorene	0.56	J	mg/kg	0.97	0.095	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.97	0.10	5
4-Nitroaniline	ND		mg/kg	0.97	0.40	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.5	0.47	5
NDPA/DPA	ND		mg/kg	0.78	0.11	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.97	0.15	5
Hexachlorobenzene	ND		mg/kg	0.58	0.11	5
Pentachlorophenol	ND		mg/kg	0.78	0.21	5
Atrazine	ND		mg/kg	0.78	0.34	5
Phenanthrene	4.8		mg/kg	0.58	0.12	5
Anthracene	1.3		mg/kg	0.58	0.19	5
Carbazole	0.56	J	mg/kg	0.97	0.095	5
Di-n-butylphthalate	ND		mg/kg	0.97	0.18	5
Fluoranthene	5.5		mg/kg	0.58	0.11	5
Pyrene	4.7		mg/kg	0.58	0.097	5
Butyl benzyl phthalate	ND		mg/kg	0.97	0.24	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.97	0.26	5
Benzo(a)anthracene	3.1		mg/kg	0.58	0.11	5
Chrysene	2.9		mg/kg	0.58	0.10	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.97	0.34	5
Di-n-octylphthalate	ND		mg/kg	0.97	0.33	5
Benzo(b)fluoranthene	3.0		mg/kg	0.58	0.16	5
Benzo(k)fluoranthene	0.95		mg/kg	0.58	0.16	5
Benzo(a)pyrene	2.4		mg/kg	0.78	0.24	5
Indeno(1,2,3-cd)pyrene	1.5		mg/kg	0.78	0.14	5
Dibenzo(a,h)anthracene	0.37	J	mg/kg	0.58	0.11	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	D	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	1.2		mg/kg	0.78	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	103		25-120
Phenol-d6	107		10-120
Nitrobenzene-d5	134	Q	23-120
2-Fluorobiphenyl	99		30-120
2,4,6-Tribromophenol	127		10-136
4-Terphenyl-d14	94		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	D	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 12:48		
Analyst:	DV		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.19	0.054	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.19	0.051	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	98		30-120
4-Terphenyl-d14	89		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-06	D	Date Collected:	12/19/22 10:45
Client ID:	SB3 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	12/31/22 05:25		
Analyst:	MG		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.2	0.24	5
Phenol	ND		mg/kg	0.90	0.14	5
2-Chlorophenol	ND		mg/kg	0.90	0.11	5
2-Methylphenol	ND		mg/kg	0.90	0.14	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.1	0.15	5
Acetophenone	ND		mg/kg	0.90	0.11	5
1,4-Dioxane	ND		mg/kg	0.13	0.041	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.3	0.14	5
Hexachloroethane	ND		mg/kg	0.72	0.14	5
Nitrobenzene	ND		mg/kg	0.81	0.13	5
Isophorone	ND		mg/kg	0.81	0.12	5
2-Nitrophenol	ND		mg/kg	1.9	0.34	5
2,4-Dimethylphenol	ND		mg/kg	0.90	0.30	5
Bis(2-chloroethoxy)methane	ND		mg/kg	0.97	0.090	5
2,4-Dichlorophenol	ND		mg/kg	0.81	0.14	5
Naphthalene	0.16	J	mg/kg	0.18	0.11	5
4-Chloroaniline	ND		mg/kg	0.90	0.16	5
Hexachlorobutadiene	ND		mg/kg	0.90	0.13	5
Caprolactam	ND		mg/kg	0.90	0.27	5
p-Chloro-m-cresol	ND		mg/kg	0.90	0.13	5
2-Methylnaphthalene	0.11	J	mg/kg	1.1	0.11	5
Hexachlorocyclopentadiene	ND		mg/kg	2.6	0.81	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.90	0.094	5
2,4,6-Trichlorophenol	ND		mg/kg	0.54	0.17	5
2,4,5-Trichlorophenol	ND		mg/kg	0.90	0.17	5
Biphenyl	ND		mg/kg	2.0	0.12	5
2-Chloronaphthalene	ND		mg/kg	0.90	0.089	5
2-Nitroaniline	ND		mg/kg	0.90	0.17	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-06	D	Date Collected:	12/19/22 10:45
Client ID:	SB3 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.90	0.19	5
2,6-Dinitrotoluene	ND		mg/kg	0.90	0.15	5
Acenaphthylene	ND		mg/kg	0.72	0.14	5
3-Nitroaniline	ND		mg/kg	0.90	0.17	5
Acenaphthene	0.35	J	mg/kg	0.72	0.093	5
2,4-Dinitrophenol	ND		mg/kg	4.3	0.42	5
4-Nitrophenol	ND		mg/kg	1.2	0.37	5
2,4-Dinitrotoluene	ND		mg/kg	0.90	0.18	5
Dibenzofuran	0.23	J	mg/kg	0.90	0.085	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.90	0.18	5
Diethyl phthalate	ND		mg/kg	0.90	0.083	5
Fluorene	0.34	J	mg/kg	0.90	0.087	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.90	0.096	5
4-Nitroaniline	ND		mg/kg	0.90	0.37	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.3	0.43	5
NDPA/DPA	ND		mg/kg	0.72	0.10	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.90	0.14	5
Hexachlorobenzene	ND		mg/kg	0.54	0.10	5
Pentachlorophenol	ND		mg/kg	0.72	0.20	5
Atrazine	ND		mg/kg	0.72	0.31	5
Phenanthrene	3.3		mg/kg	0.54	0.11	5
Anthracene	0.89		mg/kg	0.54	0.17	5
Carbazole	0.35	J	mg/kg	0.90	0.087	5
Di-n-butylphthalate	ND		mg/kg	0.90	0.17	5
Fluoranthene	3.4		mg/kg	0.54	0.10	5
Pyrene	2.8		mg/kg	0.54	0.089	5
Butyl benzyl phthalate	ND		mg/kg	0.90	0.23	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.90	0.24	5
Benzo(a)anthracene	2.0		mg/kg	0.54	0.10	5
Chrysene	1.7		mg/kg	0.54	0.093	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.90	0.31	5
Di-n-octylphthalate	ND		mg/kg	0.90	0.30	5
Benzo(b)fluoranthene	2.0		mg/kg	0.54	0.15	5
Benzo(k)fluoranthene	0.57		mg/kg	0.54	0.14	5
Benzo(a)pyrene	1.5		mg/kg	0.72	0.22	5
Indeno(1,2,3-cd)pyrene	0.83		mg/kg	0.72	0.12	5
Dibenzo(a,h)anthracene	0.23	J	mg/kg	0.54	0.10	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-06	D	Date Collected:	12/19/22 10:45
Client ID:	SB3 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.66	J	mg/kg	0.72	0.10	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	106		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-06	D	Date Collected:	12/19/22 10:45
Client ID:	SB3 (2-15)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 13:04		
Analyst:	DV		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.18	0.050	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.18	0.047	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	90		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	D	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	12/31/22 04:35		
Analyst:	MG		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND	mg/kg	1.2	0.25	5	
Phenol	ND	mg/kg	0.94	0.14	5	
2-Chlorophenol	ND	mg/kg	0.94	0.11	5	
2-Methylphenol	ND	mg/kg	0.94	0.14	5	
Bis(2-chloroisopropyl)ether	ND	mg/kg	1.1	0.16	5	
Acetophenone	ND	mg/kg	0.94	0.12	5	
1,4-Dioxane	ND	mg/kg	0.14	0.043	5	
3-Methylphenol/4-Methylphenol	ND	mg/kg	1.4	0.15	5	
Hexachloroethane	ND	mg/kg	0.75	0.15	5	
Nitrobenzene	ND	mg/kg	0.85	0.14	5	
Isophorone	ND	mg/kg	0.85	0.12	5	
2-Nitrophenol	ND	mg/kg	2.0	0.35	5	
2,4-Dimethylphenol	ND	mg/kg	0.94	0.31	5	
Bis(2-chloroethoxy)methane	ND	mg/kg	1.0	0.094	5	
2,4-Dichlorophenol	ND	mg/kg	0.85	0.15	5	
Naphthalene	ND	mg/kg	0.19	0.11	5	
4-Chloroaniline	ND	mg/kg	0.94	0.17	5	
Hexachlorobutadiene	ND	mg/kg	0.94	0.14	5	
Caprolactam	ND	mg/kg	0.94	0.29	5	
p-Chloro-m-cresol	ND	mg/kg	0.94	0.14	5	
2-Methylnaphthalene	ND	mg/kg	1.1	0.11	5	
Hexachlorocyclopentadiene	ND	mg/kg	2.7	0.85	5	
1,2,4,5-Tetrachlorobenzene	ND	mg/kg	0.94	0.098	5	
2,4,6-Trichlorophenol	ND	mg/kg	0.56	0.18	5	
2,4,5-Trichlorophenol	ND	mg/kg	0.94	0.18	5	
Biphenyl	ND	mg/kg	2.1	0.12	5	
2-Chloronaphthalene	ND	mg/kg	0.94	0.093	5	
2-Nitroaniline	ND	mg/kg	0.94	0.18	5	



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	D	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.94	0.20	5
2,6-Dinitrotoluene	ND		mg/kg	0.94	0.16	5
Acenaphthylene	ND		mg/kg	0.75	0.14	5
3-Nitroaniline	ND		mg/kg	0.94	0.18	5
Acenaphthene	ND		mg/kg	0.75	0.097	5
2,4-Dinitrophenol	ND		mg/kg	4.5	0.44	5
4-Nitrophenol	ND		mg/kg	1.3	0.38	5
2,4-Dinitrotoluene	ND		mg/kg	0.94	0.19	5
Dibenzofuran	ND		mg/kg	0.94	0.089	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.94	0.19	5
Diethyl phthalate	ND		mg/kg	0.94	0.087	5
Fluorene	ND		mg/kg	0.94	0.091	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.94	0.10	5
4-Nitroaniline	ND		mg/kg	0.94	0.39	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.4	0.45	5
NDPA/DPA	ND		mg/kg	0.75	0.11	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.94	0.14	5
Hexachlorobenzene	ND		mg/kg	0.56	0.10	5
Pentachlorophenol	ND		mg/kg	0.75	0.21	5
Atrazine	ND		mg/kg	0.75	0.33	5
Phenanthrene	0.72		mg/kg	0.56	0.11	5
Anthracene	ND		mg/kg	0.56	0.18	5
Carbazole	ND		mg/kg	0.94	0.091	5
Di-n-butylphthalate	ND		mg/kg	0.94	0.18	5
Fluoranthene	0.89		mg/kg	0.56	0.11	5
Pyrene	0.86		mg/kg	0.56	0.094	5
Butyl benzyl phthalate	ND		mg/kg	0.94	0.24	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.94	0.25	5
Benzo(a)anthracene	0.45	J	mg/kg	0.56	0.10	5
Chrysene	0.48	J	mg/kg	0.56	0.098	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.94	0.32	5
Di-n-octylphthalate	ND		mg/kg	0.94	0.32	5
Benzo(b)fluoranthene	0.52	J	mg/kg	0.56	0.16	5
Benzo(k)fluoranthene	0.16	J	mg/kg	0.56	0.15	5
Benzo(a)pyrene	0.40	J	mg/kg	0.75	0.23	5
Indeno(1,2,3-cd)pyrene	0.25	J	mg/kg	0.75	0.13	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.56	0.11	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	D	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.23	J	mg/kg	0.75	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	63		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	D	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 13:21		
Analyst:	DV		
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.19	0.052	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.19	0.049	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	66		30-120
4-Terphenyl-d14	62		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-08
 Client ID: SB4 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/31/22 02:58
 Analyst: MG
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.053	1
Phenol	ND		mg/kg	0.20	0.030	1
2-Chlorophenol	ND		mg/kg	0.20	0.023	1
2-Methylphenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.033	1
Acetophenone	ND		mg/kg	0.20	0.024	1
1,4-Dioxane	ND		mg/kg	0.029	0.0089	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.28	0.031	1
Hexachloroethane	ND		mg/kg	0.16	0.032	1
Nitrobenzene	ND		mg/kg	0.18	0.029	1
Isophorone	ND		mg/kg	0.18	0.025	1
2-Nitrophenol	ND		mg/kg	0.42	0.073	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.064	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.21	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.031	1
Naphthalene	ND		mg/kg	0.039	0.024	1
4-Chloroaniline	ND		mg/kg	0.20	0.036	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.029	1
Caprolactam	ND		mg/kg	0.20	0.059	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.029	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.56	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.037	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.037	1
Biphenyl	ND		mg/kg	0.44	0.025	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.019	1
2-Nitroaniline	ND		mg/kg	0.20	0.038	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-08	Date Collected:	12/19/22 10:55
Client ID:	SB4 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.20	0.041	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.034	1
Acenaphthylene	ND		mg/kg	0.16	0.030	1
3-Nitroaniline	ND		mg/kg	0.20	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.94	0.091	1
4-Nitrophenol	ND		mg/kg	0.27	0.080	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.039	1
Dibenzofuran	ND		mg/kg	0.20	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.039	1
Diethyl phthalate	ND		mg/kg	0.20	0.018	1
Fluorene	ND		mg/kg	0.20	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.021	1
4-Nitroaniline	ND		mg/kg	0.20	0.081	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.51	0.094	1
NDPA/DPA	ND		mg/kg	0.16	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.043	1
Atrazine	ND		mg/kg	0.16	0.068	1
Phenanthrene	0.10	J	mg/kg	0.12	0.024	1
Anthracene	ND		mg/kg	0.12	0.038	1
Carbazole	ND		mg/kg	0.20	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.037	1
Fluoranthene	0.14		mg/kg	0.12	0.022	1
Pyrene	0.11	J	mg/kg	0.12	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.049	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.052	1
Benzo(a)anthracene	0.086	J	mg/kg	0.12	0.022	1
Chrysene	0.078	J	mg/kg	0.12	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.068	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.066	1
Benzo(b)fluoranthene	0.095	J	mg/kg	0.12	0.033	1
Benzo(k)fluoranthene	0.032	J	mg/kg	0.12	0.031	1
Benzo(a)pyrene	0.081	J	mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	0.051	J	mg/kg	0.16	0.027	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.022	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-08
 Client ID: SB4 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.042	J	mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	75		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-08
 Client ID: SB4 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/03/23 13:37
 Analyst: DV
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.039	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.039	0.010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	60		30-120
4-Terphenyl-d14	62		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-09	D	Date Collected:	12/19/22 11:05
Client ID:	SB5 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	12/31/22 06:37		
Analyst:	MG		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND	mg/kg	1.3	0.26	5	
Phenol	ND	mg/kg	0.97	0.15	5	
2-Chlorophenol	ND	mg/kg	0.97	0.11	5	
2-Methylphenol	ND	mg/kg	0.97	0.15	5	
Bis(2-chloroisopropyl)ether	ND	mg/kg	1.2	0.16	5	
Acetophenone	ND	mg/kg	0.97	0.12	5	
1,4-Dioxane	ND	mg/kg	0.14	0.044	5	
3-Methylphenol/4-Methylphenol	ND	mg/kg	1.4	0.15	5	
Hexachloroethane	ND	mg/kg	0.78	0.16	5	
Nitrobenzene	ND	mg/kg	0.87	0.14	5	
Isophorone	ND	mg/kg	0.87	0.12	5	
2-Nitrophenol	ND	mg/kg	2.1	0.36	5	
2,4-Dimethylphenol	ND	mg/kg	0.97	0.32	5	
Bis(2-chloroethoxy)methane	ND	mg/kg	1.0	0.097	5	
2,4-Dichlorophenol	ND	mg/kg	0.87	0.16	5	
Naphthalene	ND	mg/kg	0.19	0.12	5	
4-Chloroaniline	ND	mg/kg	0.97	0.18	5	
Hexachlorobutadiene	ND	mg/kg	0.97	0.14	5	
Caprolactam	ND	mg/kg	0.97	0.29	5	
p-Chloro-m-cresol	ND	mg/kg	0.97	0.14	5	
2-Methylnaphthalene	ND	mg/kg	1.2	0.12	5	
Hexachlorocyclopentadiene	ND	mg/kg	2.8	0.88	5	
1,2,4,5-Tetrachlorobenzene	ND	mg/kg	0.97	0.10	5	
2,4,6-Trichlorophenol	ND	mg/kg	0.58	0.18	5	
2,4,5-Trichlorophenol	ND	mg/kg	0.97	0.18	5	
Biphenyl	ND	mg/kg	2.2	0.13	5	
2-Chloronaphthalene	ND	mg/kg	0.97	0.096	5	
2-Nitroaniline	ND	mg/kg	0.97	0.19	5	



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-09	D	Date Collected:	12/19/22 11:05
Client ID:	SB5 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Semivolatile Organics by GC/MS - Westborough Lab						
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Dimethyl phthalate	ND		mg/kg	0.97	0.20	5
2,6-Dinitrotoluene	ND		mg/kg	0.97	0.17	5
Acenaphthylene	0.48	J	mg/kg	0.78	0.15	5
3-Nitroaniline	ND		mg/kg	0.97	0.18	5
Acenaphthene	0.19	J	mg/kg	0.78	0.10	5
2,4-Dinitrophenol	ND		mg/kg	4.6	0.45	5
4-Nitrophenol	ND		mg/kg	1.4	0.40	5
2,4-Dinitrotoluene	ND		mg/kg	0.97	0.19	5
Dibenzofuran	0.12	J	mg/kg	0.97	0.092	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.97	0.20	5
Diethyl phthalate	ND		mg/kg	0.97	0.090	5
Fluorene	0.27	J	mg/kg	0.97	0.094	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.97	0.10	5
4-Nitroaniline	ND		mg/kg	0.97	0.40	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.5	0.46	5
NDPA/DPA	ND		mg/kg	0.78	0.11	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.97	0.15	5
Hexachlorobenzene	ND		mg/kg	0.58	0.11	5
Pentachlorophenol	ND		mg/kg	0.78	0.21	5
Atrazine	ND		mg/kg	0.78	0.34	5
Phenanthrene	3.9		mg/kg	0.58	0.12	5
Anthracene	0.77		mg/kg	0.58	0.19	5
Carbazole	0.23	J	mg/kg	0.97	0.094	5
Di-n-butylphthalate	ND		mg/kg	0.97	0.18	5
Fluoranthene	5.7		mg/kg	0.58	0.11	5
Pyrene	5.2		mg/kg	0.58	0.096	5
Butyl benzyl phthalate	ND		mg/kg	0.97	0.24	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.97	0.26	5
Benzo(a)anthracene	2.6		mg/kg	0.58	0.11	5
Chrysene	2.5		mg/kg	0.58	0.10	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.97	0.34	5
Di-n-octylphthalate	ND		mg/kg	0.97	0.33	5
Benzo(b)fluoranthene	2.8		mg/kg	0.58	0.16	5
Benzo(k)fluoranthene	0.83		mg/kg	0.58	0.16	5
Benzo(a)pyrene	2.2		mg/kg	0.78	0.24	5
Indeno(1,2,3-cd)pyrene	1.5		mg/kg	0.78	0.14	5
Dibenzo(a,h)anthracene	0.30	J	mg/kg	0.58	0.11	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-09	D	Date Collected:	12/19/22 11:05
Client ID:	SB5 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	1.3		mg/kg	0.78	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	56		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-09	D	Date Collected:	12/19/22 11:05
Client ID:	SB5 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 13:53		
Analyst:	DV		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.19	0.054	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.19	0.051	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	56		30-120
4-Terphenyl-d14	49		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-10
 Client ID: SB5 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:10
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/31/22 01:46
 Analyst: MG
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.031	0.0093	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.47	0.026	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-10	Date Collected:	12/19/22 11:10
Client ID:	SB5 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.095	1
4-Nitrophenol	ND		mg/kg	0.29	0.083	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.085	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.023	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.071	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-10
 Client ID: SB5 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:10
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	77		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-10	Date Collected:	12/19/22 11:10
Client ID:	SB5 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 14:10		
Analyst:	DV		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.011	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		30-120
4-Terphenyl-d14	67		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	D	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:07
Analytical Date:	12/31/22 07:49		
Analyst:	MG		
Percent Solids:	94%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.1	0.23	5
Phenol	ND		mg/kg	0.87	0.13	5
2-Chlorophenol	ND		mg/kg	0.87	0.10	5
2-Methylphenol	ND		mg/kg	0.87	0.13	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.0	0.15	5
Acetophenone	ND		mg/kg	0.87	0.11	5
1,4-Dioxane	ND		mg/kg	0.13	0.040	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.2	0.14	5
Hexachloroethane	ND		mg/kg	0.69	0.14	5
Nitrobenzene	ND		mg/kg	0.78	0.13	5
Isophorone	ND		mg/kg	0.78	0.11	5
2-Nitrophenol	ND		mg/kg	1.9	0.33	5
2,4-Dimethylphenol	ND		mg/kg	0.87	0.29	5
Bis(2-chloroethoxy)methane	ND		mg/kg	0.94	0.087	5
2,4-Dichlorophenol	ND		mg/kg	0.78	0.14	5
Naphthalene	0.41		mg/kg	0.17	0.10	5
4-Chloroaniline	ND		mg/kg	0.87	0.16	5
Hexachlorobutadiene	ND		mg/kg	0.87	0.13	5
Caprolactam	ND		mg/kg	0.87	0.26	5
p-Chloro-m-cresol	ND		mg/kg	0.87	0.13	5
2-Methylnaphthalene	0.19	J	mg/kg	1.0	0.10	5
Hexachlorocyclopentadiene	ND		mg/kg	2.5	0.79	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.87	0.091	5
2,4,6-Trichlorophenol	ND		mg/kg	0.52	0.16	5
2,4,5-Trichlorophenol	ND		mg/kg	0.87	0.17	5
Biphenyl	ND		mg/kg	2.0	0.11	5
2-Chloronaphthalene	ND		mg/kg	0.87	0.086	5
2-Nitroaniline	ND		mg/kg	0.87	0.17	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	D	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.87	0.18	5
2,6-Dinitrotoluene	ND		mg/kg	0.87	0.15	5
Acenaphthylene	0.83		mg/kg	0.69	0.13	5
3-Nitroaniline	ND		mg/kg	0.87	0.16	5
Acenaphthene	0.64	J	mg/kg	0.69	0.090	5
2,4-Dinitrophenol	ND		mg/kg	4.2	0.40	5
4-Nitrophenol	ND		mg/kg	1.2	0.35	5
2,4-Dinitrotoluene	ND		mg/kg	0.87	0.17	5
Dibenzofuran	0.38	J	mg/kg	0.87	0.082	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.87	0.18	5
Diethyl phthalate	ND		mg/kg	0.87	0.080	5
Fluorene	0.66	J	mg/kg	0.87	0.084	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.87	0.093	5
4-Nitroaniline	ND		mg/kg	0.87	0.36	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.2	0.42	5
NDPA/DPA	ND		mg/kg	0.69	0.099	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.87	0.13	5
Hexachlorobenzene	ND		mg/kg	0.52	0.097	5
Pentachlorophenol	ND		mg/kg	0.69	0.19	5
Atrazine	ND		mg/kg	0.69	0.30	5
Phenanthrene	8.2		mg/kg	0.52	0.10	5
Anthracene	2.2		mg/kg	0.52	0.17	5
Carbazole	1.2		mg/kg	0.87	0.084	5
Di-n-butylphthalate	ND		mg/kg	0.87	0.16	5
Fluoranthene	14.		mg/kg	0.52	0.10	5
Pyrene	13.		mg/kg	0.52	0.086	5
Butyl benzyl phthalate	ND		mg/kg	0.87	0.22	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.87	0.23	5
Benzo(a)anthracene	9.2		mg/kg	0.52	0.098	5
Chrysene	9.1		mg/kg	0.52	0.090	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.87	0.30	5
Di-n-octylphthalate	ND		mg/kg	0.87	0.30	5
Benzo(b)fluoranthene	14.		mg/kg	0.52	0.15	5
Benzo(k)fluoranthene	4.6		mg/kg	0.52	0.14	5
Benzo(a)pyrene	12.		mg/kg	0.69	0.21	5
Indeno(1,2,3-cd)pyrene	11.		mg/kg	0.69	0.12	5
Dibenzo(a,h)anthracene	2.2		mg/kg	0.52	0.10	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	D	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	9.3		mg/kg	0.69	0.10	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	75		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	D	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 14:26		
Analyst:	DV		
Percent Solids:	94%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.17	0.048	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.17	0.046	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	74		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-12
 Client ID: SB6 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:20
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/31/22 02:09
 Analyst: MG
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.049	1
Phenol	ND		mg/kg	0.18	0.027	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0083	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.024	1
2-Nitrophenol	ND		mg/kg	0.39	0.068	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.060	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	ND		mg/kg	0.036	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.033	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.055	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	ND		mg/kg	0.41	0.024	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.035	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-12	Date Collected:	12/19/22 11:20
Client ID:	SB6 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.031	1
Acenaphthylene	ND		mg/kg	0.14	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.87	0.085	1
4-Nitrophenol	ND		mg/kg	0.25	0.074	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	ND		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	ND		mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.075	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.47	0.087	1
NDPA/DPA	ND		mg/kg	0.14	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.040	1
Atrazine	ND		mg/kg	0.14	0.064	1
Phenanthrene	ND		mg/kg	0.11	0.022	1
Anthracene	ND		mg/kg	0.11	0.035	1
Carbazole	ND		mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	ND		mg/kg	0.11	0.021	1
Pyrene	ND		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.046	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.048	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.020	1
Chrysene	ND		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.063	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.062	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.029	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.021	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-12
 Client ID: SB6 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:20
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	ND		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		25-120
Phenol-d6	37		10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	36		30-120
2,4,6-Tribromophenol	33		10-136
4-Terphenyl-d14	37		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-12	Date Collected:	12/19/22 11:20
Client ID:	SB6 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 02:24
Analytical Date:	01/03/23 16:05		
Analyst:	DV		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.0095	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	36		23-120
2-Fluorobiphenyl	34		30-120
4-Terphenyl-d14	32		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	D2	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:17
Analytical Date:	01/05/23 02:41		
Analyst:	IM		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	60.		mg/kg	2.8	0.56	25
Fluoranthene	72.		mg/kg	2.8	0.53	25
Pyrene	61.		mg/kg	2.8	0.46	25

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	D	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	12/27/22 02:17
Analytical Date:	12/31/22 07:01		
Analyst:	MG		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	0.33	J	mg/kg	1.2	0.25	5
Phenol	0.22	J	mg/kg	0.92	0.14	5
2-Chlorophenol	ND		mg/kg	0.92	0.11	5
2-Methylphenol	ND		mg/kg	0.92	0.14	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.1	0.16	5
Acetophenone	ND		mg/kg	0.92	0.11	5
1,4-Dioxane	ND		mg/kg	0.14	0.042	5
3-Methylphenol/4-Methylphenol	0.33	J	mg/kg	1.3	0.14	5
Hexachloroethane	ND		mg/kg	0.74	0.15	5
Nitrobenzene	ND		mg/kg	0.83	0.14	5
Isophorone	ND		mg/kg	0.83	0.12	5
2-Nitrophenol	ND		mg/kg	2.0	0.35	5
2,4-Dimethylphenol	ND		mg/kg	0.92	0.30	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.0	0.092	5
2,4-Dichlorophenol	ND		mg/kg	0.83	0.15	5
Naphthalene	1.4		mg/kg	0.18	0.11	5
4-Chloroaniline	ND		mg/kg	0.92	0.17	5
Hexachlorobutadiene	ND		mg/kg	0.92	0.14	5
Caprolactam	ND		mg/kg	0.92	0.28	5
p-Chloro-m-cresol	ND		mg/kg	0.92	0.14	5
2-Methylnaphthalene	0.97	J	mg/kg	1.1	0.11	5
Hexachlorocyclopentadiene	ND		mg/kg	2.6	0.84	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.92	0.096	5
2,4,6-Trichlorophenol	ND		mg/kg	0.55	0.17	5
2,4,5-Trichlorophenol	ND		mg/kg	0.92	0.18	5
Biphenyl	0.34	J	mg/kg	2.1	0.12	5
2-Chloronaphthalene	ND		mg/kg	0.92	0.092	5
2-Nitroaniline	ND		mg/kg	0.92	0.18	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	D	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Semivolatile Organics by GC/MS - Westborough Lab						
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Dimethyl phthalate	ND		mg/kg	0.92	0.19	5
2,6-Dinitrotoluene	ND		mg/kg	0.92	0.16	5
Acenaphthylene	5.1		mg/kg	0.74	0.14	5
3-Nitroaniline	ND		mg/kg	0.92	0.17	5
Acenaphthene	3.8		mg/kg	0.74	0.096	5
2,4-Dinitrophenol	ND		mg/kg	4.4	0.43	5
4-Nitrophenol	ND		mg/kg	1.3	0.38	5
2,4-Dinitrotoluene	ND		mg/kg	0.92	0.18	5
Dibenzofuran	4.0		mg/kg	0.92	0.087	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.92	0.19	5
Diethyl phthalate	ND		mg/kg	0.92	0.085	5
Fluorene	4.2		mg/kg	0.92	0.090	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.92	0.099	5
4-Nitroaniline	ND		mg/kg	0.92	0.38	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.4	0.44	5
NDPA/DPA	ND		mg/kg	0.74	0.10	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.92	0.14	5
Hexachlorobenzene	ND		mg/kg	0.55	0.10	5
Pentachlorophenol	ND		mg/kg	0.74	0.20	5
Atrazine	ND		mg/kg	0.74	0.32	5
Phenanthrene	52.	E	mg/kg	0.55	0.11	5
Anthracene	14.		mg/kg	0.55	0.18	5
Carbazole	5.0		mg/kg	0.92	0.090	5
Di-n-butylphthalate	ND		mg/kg	0.92	0.17	5
Fluoranthene	60.	E	mg/kg	0.55	0.10	5
Pyrene	54.	E	mg/kg	0.55	0.092	5
Butyl benzyl phthalate	ND		mg/kg	0.92	0.23	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.92	0.24	5
Benzo(a)anthracene	37.		mg/kg	0.55	0.10	5
Chrysene	33.		mg/kg	0.55	0.096	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.92	0.32	5
Di-n-octylphthalate	ND		mg/kg	0.92	0.31	5
Benzo(b)fluoranthene	37.		mg/kg	0.55	0.16	5
Benzo(k)fluoranthene	9.5		mg/kg	0.55	0.15	5
Benzo(a)pyrene	27.		mg/kg	0.74	0.22	5
Indeno(1,2,3-cd)pyrene	20.		mg/kg	0.74	0.13	5
Dibenzo(a,h)anthracene	4.4		mg/kg	0.55	0.11	5



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	D	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	16.		mg/kg	0.74	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	103		10-120
Nitrobenzene-d5	123	Q	23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	103		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	D	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E-SIM	Extraction Date:	12/27/22 04:14
Analytical Date:	01/03/23 16:21		
Analyst:	DV		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.18	0.051	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.18	0.048	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	88		30-120
4-Terphenyl-d14	93		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-14
 Client ID: SB7 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:35
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/31/22 03:47
 Analyst: MG
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.048	1
Phenol	ND		mg/kg	0.18	0.027	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.027	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.026	0.0081	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.38	0.067	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.058	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.028	1
Naphthalene	0.040		mg/kg	0.035	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.026	1
Caprolactam	ND		mg/kg	0.18	0.054	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.026	1
2-Methylnaphthalene	0.028	J	mg/kg	0.21	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.51	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Biphenyl	ND		mg/kg	0.40	0.023	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-14	Date Collected:	12/19/22 11:35
Client ID:	SB7 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.18	0.037	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.030	1
Acenaphthylene	ND		mg/kg	0.14	0.027	1
3-Nitroaniline	ND		mg/kg	0.18	0.033	1
Acenaphthene	0.061	J	mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.85	0.082	1
4-Nitrophenol	ND		mg/kg	0.25	0.072	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.035	1
Dibenzofuran	0.047	J	mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1
Diethyl phthalate	ND		mg/kg	0.18	0.016	1
Fluorene	0.069	J	mg/kg	0.18	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.073	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.46	0.085	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.027	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.039	1
Atrazine	ND		mg/kg	0.14	0.062	1
Phenanthrene	0.50		mg/kg	0.11	0.022	1
Anthracene	0.11		mg/kg	0.11	0.034	1
Carbazole	0.062	J	mg/kg	0.18	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	0.44		mg/kg	0.11	0.020	1
Pyrene	0.36		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.045	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.047	1
Benzo(a)anthracene	0.21		mg/kg	0.11	0.020	1
Chrysene	0.18		mg/kg	0.11	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.061	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.060	1
Benzo(b)fluoranthene	0.19		mg/kg	0.11	0.030	1
Benzo(k)fluoranthene	0.062	J	mg/kg	0.11	0.028	1
Benzo(a)pyrene	0.15		mg/kg	0.14	0.043	1
Indeno(1,2,3-cd)pyrene	0.079	J	mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.024	J	mg/kg	0.11	0.020	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-14
 Client ID: SB7 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:35
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.064	J	mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	67		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-14
 Client ID: SB7 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:35
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/03/23 16:38
 Analyst: DV
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 04:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.035	0.0099	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.035	0.0093	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	60		30-120
4-Terphenyl-d14	57		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-15
 Client ID: SB8 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:45
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/31/22 04:11
 Analyst: MG
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.047	1
Phenol	ND		mg/kg	0.17	0.026	1
2-Chlorophenol	ND		mg/kg	0.17	0.021	1
2-Methylphenol	ND		mg/kg	0.17	0.027	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.17	0.022	1
1,4-Dioxane	ND		mg/kg	0.026	0.0080	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.027	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.38	0.066	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.058	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.028	1
Naphthalene	ND		mg/kg	0.035	0.021	1
4-Chloroaniline	ND		mg/kg	0.17	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.026	1
Caprolactam	ND		mg/kg	0.17	0.053	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.026	1
2-Methylnaphthalene	ND		mg/kg	0.21	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.50	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.033	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.033	1
Biphenyl	ND		mg/kg	0.40	0.023	1
2-Chloronaphthalene	ND		mg/kg	0.17	0.017	1
2-Nitroaniline	ND		mg/kg	0.17	0.034	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-15	Date Collected:	12/19/22 11:45
Client ID:	SB8 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.17	0.037	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.030	1
Acenaphthylene	ND		mg/kg	0.14	0.027	1
3-Nitroaniline	ND		mg/kg	0.17	0.033	1
Acenaphthene	ND		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.84	0.081	1
4-Nitrophenol	ND		mg/kg	0.24	0.071	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.035	1
Dibenzofuran	ND		mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.035	1
Diethyl phthalate	ND		mg/kg	0.17	0.016	1
Fluorene	ND		mg/kg	0.17	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.019	1
4-Nitroaniline	ND		mg/kg	0.17	0.072	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.45	0.084	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.027	1
Hexachlorobenzene	ND		mg/kg	0.10	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.038	1
Atrazine	ND		mg/kg	0.14	0.061	1
Phenanthrene	0.16		mg/kg	0.10	0.021	1
Anthracene	0.036	J	mg/kg	0.10	0.034	1
Carbazole	0.021	J	mg/kg	0.17	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.17	0.033	1
Fluoranthene	0.25		mg/kg	0.10	0.020	1
Pyrene	0.21		mg/kg	0.10	0.017	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.044	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.046	1
Benzo(a)anthracene	0.12		mg/kg	0.10	0.020	1
Chrysene	0.12		mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.060	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.059	1
Benzo(b)fluoranthene	0.13		mg/kg	0.10	0.029	1
Benzo(k)fluoranthene	0.044	J	mg/kg	0.10	0.028	1
Benzo(a)pyrene	0.10	J	mg/kg	0.14	0.043	1
Indeno(1,2,3-cd)pyrene	0.069	J	mg/kg	0.14	0.024	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.020	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-15
 Client ID: SB8 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:45
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.061	J	mg/kg	0.14	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	4	Q	25-120
Phenol-d6	27		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	1	Q	10-136
4-Terphenyl-d14	74		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-15
Client ID: SB8 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:45
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E-SIM
Analytical Date: 01/03/23 16:54
Analyst: DV
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/27/22 04:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.035	0.0098	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.035	0.0092	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	62		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-15	RE	Date Collected:	12/19/22 11:45
Client ID:	SB8 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270E	Extraction Date:	01/04/23 17:12
Analytical Date:	01/05/23 02:53		
Analyst:	IM		

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	0.052	J	mg/kg	0.23	0.048	1
Phenol	ND		mg/kg	0.18	0.027	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.027	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.026	0.0080	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.38	0.066	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.058	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.028	1
Naphthalene	0.044		mg/kg	0.035	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.026	1
Caprolactam	ND		mg/kg	0.18	0.054	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.026	1
2-Methylnaphthalene	0.023	J	mg/kg	0.21	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.50	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.033	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Biphenyl	ND		mg/kg	0.40	0.023	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-15	RE	Date Collected:	12/19/22 11:45
Client ID:	SB8 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.18	0.037	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.030	1
Acenaphthylene	0.084	J	mg/kg	0.14	0.027	1
3-Nitroaniline	ND		mg/kg	0.18	0.033	1
Acenaphthene	0.054	J	mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.85	0.082	1
4-Nitrophenol	ND		mg/kg	0.25	0.072	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.035	1
Dibenzofuran	0.041	J	mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1
Diethyl phthalate	ND		mg/kg	0.18	0.016	1
Fluorene	0.070	J	mg/kg	0.18	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.073	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.46	0.085	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.027	1
Hexachlorobenzene	ND		mg/kg	0.10	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.039	1
Atrazine	ND		mg/kg	0.14	0.062	1
Phenanthrene	0.79		mg/kg	0.10	0.021	1
Anthracene	0.25		mg/kg	0.10	0.034	1
Carbazole	0.055	J	mg/kg	0.18	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.033	1
Fluoranthene	1.4		mg/kg	0.10	0.020	1
Pyrene	1.2		mg/kg	0.10	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.044	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.047	1
Benzo(a)anthracene	0.70		mg/kg	0.10	0.020	1
Chrysene	0.64		mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.061	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.060	1
Benzo(b)fluoranthene	0.70		mg/kg	0.10	0.030	1
Benzo(k)fluoranthene	0.24		mg/kg	0.10	0.028	1
Benzo(a)pyrene	0.59		mg/kg	0.14	0.043	1
Indeno(1,2,3-cd)pyrene	0.33		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.082	J	mg/kg	0.10	0.020	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-15	RE	Date Collected:	12/19/22 11:45
Client ID:	SB8 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.27		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	10	Q	25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	6	Q	10-136
4-Terphenyl-d14	103		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-16
 Client ID: SB8 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 01/05/23 00:42
 Analyst: IM
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 02:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.031	0.0093	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.47	0.026	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-16	Date Collected:	12/19/22 11:55
Client ID:	SB8 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.095	1
4-Nitrophenol	ND		mg/kg	0.29	0.083	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.085	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	0.052	J	mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.039	1
Fluoranthene	0.11	J	mg/kg	0.12	0.023	1
Pyrene	0.095	J	mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	0.058	J	mg/kg	0.12	0.023	1
Chrysene	0.059	J	mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.071	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.070	1
Benzo(b)fluoranthene	0.075	J	mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	0.056	J	mg/kg	0.16	0.050	1
Indeno(1,2,3-cd)pyrene	0.042	J	mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-16
 Client ID: SB8 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.038	J	mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		25-120
Phenol-d6	35		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	37		30-120
2,4,6-Tribromophenol	39		10-136
4-Terphenyl-d14	35		18-120

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-16
 Client ID: SB8 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/05/23 13:42
 Analyst: JJW
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 12/27/22 04:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.011	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	43		30-120
4-Terphenyl-d14	38		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/30/22 22:57
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s):	01-16		Batch:	WG1727513-1	
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.14	0.024
Isophorone	ND		mg/kg	0.14	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.053
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016
2,4-Dichlorophenol	ND		mg/kg	0.14	0.026
Naphthalene	ND		mg/kg	0.032	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.029
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/30/22 22:57
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s):	01-16		Batch:	WG1727513-1	
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.030
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.076
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.019
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/30/22 22:57
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-16 Batch: WG1727513-1					
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.022
Dibenz(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Acceptance Criteria	
		Qualifier	Criteria
2-Fluorophenol	84		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	96		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 01/03/23 11:26
Analyst: DV

Extraction Method: EPA 3546
Extraction Date: 12/27/22 02:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s):	01-16		Batch:	WG1727514-1	
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.0090
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.0085

Surrogate	%Recovery	Acceptance Criteria	
		Qualifier	Criteria
2-Fluorophenol	63		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	79		18-120

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/04/23 22:58
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/04/23 17:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15				Batch:	WG1730021-1
Benzaldehyde	ND		mg/kg	0.22	0.045
Phenol	ND		mg/kg	0.16	0.025
2-Chlorophenol	ND		mg/kg	0.16	0.020
2-Methylphenol	ND		mg/kg	0.16	0.026
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.025	0.0075
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.24	0.026
Hexachloroethane	ND		mg/kg	0.13	0.027
Nitrobenzene	ND		mg/kg	0.15	0.024
Isophorone	ND		mg/kg	0.15	0.021
2-Nitrophenol	ND		mg/kg	0.36	0.062
2,4-Dimethylphenol	ND		mg/kg	0.16	0.055
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016
2,4-Dichlorophenol	ND		mg/kg	0.15	0.027
Naphthalene	ND		mg/kg	0.033	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.030
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.050
p-Chloro-m-cresol	ND		mg/kg	0.16	0.025
2-Methylnaphthalene	ND		mg/kg	0.20	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.47	0.15
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.099	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.032
Biphenyl	ND		mg/kg	0.38	0.022
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.032
Dimethyl phthalate	ND		mg/kg	0.16	0.035

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/04/23 22:58
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/04/23 17:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15				Batch:	WG1730021-1
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.026
3-Nitroaniline	ND		mg/kg	0.16	0.031
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.79	0.077
4-Nitrophenol	ND		mg/kg	0.23	0.068
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.033
Dibenzofuran	ND		mg/kg	0.16	0.016
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.018
4-Nitroaniline	ND		mg/kg	0.16	0.068
4,6-Dinitro-o-cresol	ND		mg/kg	0.43	0.079
NDPA/DPA	ND		mg/kg	0.13	0.019
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.099	0.018
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.058
Phenanthrene	ND		mg/kg	0.099	0.020
Anthracene	ND		mg/kg	0.099	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.099	0.019
Pyrene	ND		mg/kg	0.099	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.042
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.044
Benzo(a)anthracene	ND		mg/kg	0.099	0.019
Chrysene	ND		mg/kg	0.099	0.017

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/04/23 22:58
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/04/23 17:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15				Batch:	WG1730021-1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.057
Di-n-octylphthalate	ND		mg/kg	0.16	0.056
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.028
Benzo(k)fluoranthene	ND		mg/kg	0.099	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023
Dibenz(a,h)anthracene	ND		mg/kg	0.099	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	90		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG1727513-2 WG1727513-3								
Benzaldehyde	78		82		40-140	5		50
Phenol	69		78		26-90	12		50
2-Chlorophenol	76		86		25-102	12		50
2-Methylphenol	73		84		30-130	14		50
Bis(2-chloroisopropyl)ether	49		55		40-140	12		50
Acetophenone	65		73		14-144	12		50
1,4-Dioxane	60		61		30-130	2		50
3-Methylphenol/4-Methylphenol	70		81		30-130	15		50
Hexachloroethane	70		77		40-140	10		50
Nitrobenzene	73		83		40-140	13		50
Isophorone	63		72		40-140	13		50
2-Nitrophenol	92		109		30-130	17		50
2,4-Dimethylphenol	63		74		30-130	16		50
Bis(2-chloroethoxy)methane	65		74		40-117	13		50
2,4-Dichlorophenol	72		83		30-130	14		50
Naphthalene	68		77		40-140	12		50
4-Chloroaniline	34	Q	33	Q	40-140	3		50
Hexachlorobutadiene	65		73		40-140	12		50
Caprolactam	67		72		15-130	7		50
p-Chloro-m-cresol	75		83		26-103	10		50
2-Methylnaphthalene	68		77		40-140	12		50
Hexachlorocyclopentadiene	58		69		40-140	17		50
1,2,4,5-Tetrachlorobenzene	68		75		40-117	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN

Project Number: 1069022

Lab Number: L2271474

Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG1727513-2 WG1727513-3								
2,4,6-Trichlorophenol	75		83		30-130	10		50
2,4,5-Trichlorophenol	78		85		30-130	9		50
Biphenyl	64		72		37-127	12		50
2-Chloronaphthalene	68		75		40-140	10		50
2-Nitroaniline	89		103		47-134	15		50
Dimethyl phthalate	66		75		40-140	13		50
2,6-Dinitrotoluene	79		84		40-140	6		50
Acenaphthylene	74		82		40-140	10		50
3-Nitroaniline	64		62		26-129	3		50
Acenaphthene	68		72		31-137	6		50
2,4-Dinitrophenol	121		133	Q	4-130	9		50
4-Nitrophenol	95		106		11-114	11		50
2,4-Dinitrotoluene	88		95		40-132	8		50
Dibenzofuran	68		75		40-140	10		50
2,3,4,6-Tetrachlorophenol	79		88		58-132	11		50
Diethyl phthalate	72		78		40-140	8		50
Fluorene	72		77		40-140	7		50
4-Chlorophenyl phenyl ether	70		76		40-140	8		50
4-Nitroaniline	81		85		41-125	5		50
4,6-Dinitro-o-cresol	132	Q	141	Q	10-130	7		50
NDPA/DPA	72		77		36-157	7		50
4-Bromophenyl phenyl ether	73		79		40-140	8		50
Hexachlorobenzene	71		78		40-140	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG1727513-2 WG1727513-3								
Pentachlorophenol	70		82		17-109	16		50
Atrazine	68		73		40-140	7		50
Phenanthrene	69		74		40-140	7		50
Anthracene	70		76		40-140	8		50
Carbazole	70		76		54-128	8		50
Di-n-butylphthalate	77		83		40-140	8		50
Fluoranthene	72		78		40-140	8		50
Pyrene	72		79		35-142	9		50
Butyl benzyl phthalate	81		89		40-140	9		50
3,3'-Dichlorobenzidine	52		51		40-140	2		50
Benzo(a)anthracene	71		77		40-140	8		50
Chrysene	68		74		40-140	8		50
Bis(2-ethylhexyl)phthalate	78		87		40-140	11		50
Di-n-octylphthalate	80		89		40-140	11		50
Benzo(b)fluoranthene	74		78		40-140	5		50
Benzo(k)fluoranthene	64		70		40-140	9		50
Benzo(a)pyrene	69		75		40-140	8		50
Indeno(1,2,3-cd)pyrene	80		88		40-140	10		50
Dibenzo(a,h)anthracene	71		77		40-140	8		50
Benzo(ghi)perylene	71		76		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG1727513-2 WG1727513-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		91		25-120
Phenol-d6	78		89		10-120
Nitrobenzene-d5	82		94		23-120
2-Fluorobiphenyl	71		79		30-120
2,4,6-Tribromophenol	88		95		10-136
4-Terphenyl-d14	80		85		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-16 Batch: WG1727514-2 WG1727514-3								
Bis(2-chloroethyl)ether	66		73		40-140	10		50
n-Nitrosodi-n-propylamine	75		81		40-140	8		50

Surrogate	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	Acceptance Criteria
2-Fluorophenol	65		70		25-120
Phenol-d6	69		73		10-120
Nitrobenzene-d5	73		79		23-120
2-Fluorobiphenyl	72		75		30-120
2,4,6-Tribromophenol	73		73		10-136
4-Terphenyl-d14	78		78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1730021-2 WG1730021-3								
Benzaldehyde	74		76		40-140	3		50
Phenol	70		70		26-90	0		50
2-Chlorophenol	66		66		25-102	0		50
2-Methylphenol	64		66		30-130	3		50
Bis(2-chloroisopropyl)ether	61		62		40-140	2		50
Acetophenone	59		59		14-144	0		50
1,4-Dioxane	46		46		30-130	0		50
3-Methylphenol/4-Methylphenol	65		65		30-130	0		50
Hexachloroethane	57		58		40-140	2		50
Nitrobenzene	58		58		40-140	0		50
Isophorone	55		54		40-140	2		50
2-Nitrophenol	65		65		30-130	0		50
2,4-Dimethylphenol	59		60		30-130	2		50
Bis(2-chloroethoxy)methane	60		59		40-117	2		50
2,4-Dichlorophenol	69		70		30-130	1		50
Naphthalene	66		66		40-140	0		50
4-Chloroaniline	55		58		40-140	5		50
Hexachlorobutadiene	69		70		40-140	1		50
Caprolactam	66		64		15-130	3		50
p-Chloro-m-cresol	65		64		26-103	2		50
2-Methylnaphthalene	66		66		40-140	0		50
Hexachlorocyclopentadiene	76		74		40-140	3		50
1,2,4,5-Tetrachlorobenzene	71		71		40-117	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1730021-2 WG1730021-3								
2,4,6-Trichlorophenol	75		75		30-130	0		50
2,4,5-Trichlorophenol	76		73		30-130	4		50
Biphenyl	66		66		37-127	0		50
2-Chloronaphthalene	69		69		40-140	0		50
2-Nitroaniline	66		64		47-134	3		50
Dimethyl phthalate	67		66		40-140	2		50
2,6-Dinitrotoluene	70		69		40-140	1		50
Acenaphthylene	70		70		40-140	0		50
3-Nitroaniline	62		62		26-129	0		50
Acenaphthene	67		66		31-137	2		50
2,4-Dinitrophenol	79		73		4-130	8		50
4-Nitrophenol	62		61		11-114	2		50
2,4-Dinitrotoluene	70		70		40-132	0		50
Dibenzofuran	70		70		40-140	0		50
2,3,4,6-Tetrachlorophenol	83		84		58-132	1		50
Diethyl phthalate	64		64		40-140	0		50
Fluorene	67		67		40-140	0		50
4-Chlorophenyl phenyl ether	71		70		40-140	1		50
4-Nitroaniline	71		70		41-125	1		50
4,6-Dinitro-o-cresol	76		75		10-130	1		50
NDPA/DPA	70		69		36-157	1		50
4-Bromophenyl phenyl ether	74		73		40-140	1		50
Hexachlorobenzene	73		72		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1730021-2 WG1730021-3								
Pentachlorophenol	85		82		17-109	4		50
Atrazine	64		62		40-140	3		50
Phenanthrene	68		68		40-140	0		50
Anthracene	71		71		40-140	0		50
Carbazole	68		68		54-128	0		50
Di-n-butylphthalate	64		65		40-140	2		50
Fluoranthene	72		73		40-140	1		50
Pyrene	72		72		35-142	0		50
Butyl benzyl phthalate	64		66		40-140	3		50
3,3'-Dichlorobenzidine	60		59		40-140	2		50
Benzo(a)anthracene	70		70		40-140	0		50
Chrysene	70		71		40-140	1		50
Bis(2-ethylhexyl)phthalate	61		61		40-140	0		50
Di-n-octylphthalate	60		61		40-140	2		50
Benzo(b)fluoranthene	77		77		40-140	0		50
Benzo(k)fluoranthene	71		75		40-140	5		50
Benzo(a)pyrene	77		78		40-140	1		50
Indeno(1,2,3-cd)pyrene	80		79		40-140	1		50
Dibenzo(a,h)anthracene	73		72		40-140	1		50
Benzo(ghi)perylene	73		71		40-140	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	<i>LCS</i> %Recovery	Qual	<i>LCSD</i> %Recovery	Qual	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	Qual	<i>RPD</i> <i>Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1730021-2 WG1730021-3								
Surrogate			<i>LCS</i> %Recovery	Qual	<i>LCSD</i> %Recovery	Qual		<i>Acceptance</i> <i>Criteria</i>
2-Fluorophenol			67		67			25-120
Phenol-d6			66		65			10-120
Nitrobenzene-d5			58		58			23-120
2-Fluorobiphenyl			70		68			30-120
2,4,6-Tribromophenol			70		68			10-136
4-Terphenyl-d14			76		76			18-120

PCBS



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	12/26/22 23:01
Analytical Date:	12/28/22 08:26	Cleanup Method:	EPA 3665A
Analyst:	JM	Cleanup Date:	12/28/22
Percent Solids:	81%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0408	0.00362	1	A
Aroclor 1221	ND		mg/kg	0.0408	0.00408	1	A
Aroclor 1232	ND		mg/kg	0.0408	0.00864	1	A
Aroclor 1242	ND		mg/kg	0.0408	0.00549	1	A
Aroclor 1248	ND		mg/kg	0.0408	0.00611	1	A
Aroclor 1254	0.141		mg/kg	0.0408	0.00446	1	A
Aroclor 1260	ND		mg/kg	0.0408	0.00753	1	A
Aroclor 1262	ND		mg/kg	0.0408	0.00518	1	A
Aroclor 1268	0.0224	J	mg/kg	0.0408	0.00422	1	B
PCBs, Total	0.163	J	mg/kg	0.0408	0.00362	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	143		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	179	Q	30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-02
Client ID: SB1 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:05
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/28/22 09:06
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 12/26/22 23:01
Cleanup Method: EPA 3665A
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0369	0.00327	1	A
Aroclor 1221	ND		mg/kg	0.0369	0.00369	1	A
Aroclor 1232	ND		mg/kg	0.0369	0.00782	1	A
Aroclor 1242	ND		mg/kg	0.0369	0.00497	1	A
Aroclor 1248	ND		mg/kg	0.0369	0.00553	1	A
Aroclor 1254	ND		mg/kg	0.0369	0.00403	1	A
Aroclor 1260	ND		mg/kg	0.0369	0.00681	1	A
Aroclor 1262	ND		mg/kg	0.0369	0.00468	1	A
Aroclor 1268	ND		mg/kg	0.0369	0.00382	1	A
PCBs, Total	ND		mg/kg	0.0369	0.00327	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-03
Client ID: SB2 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:10
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/28/22 08:34
Analyst: JM
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 12/26/22 23:01
Cleanup Method: EPA 3665A
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0436	0.00388	1	A
Aroclor 1221	ND		mg/kg	0.0436	0.00437	1	A
Aroclor 1232	ND		mg/kg	0.0436	0.00926	1	A
Aroclor 1242	ND		mg/kg	0.0436	0.00588	1	A
Aroclor 1248	ND		mg/kg	0.0436	0.00655	1	A
Aroclor 1254	ND		mg/kg	0.0436	0.00478	1	A
Aroclor 1260	ND		mg/kg	0.0436	0.00807	1	A
Aroclor 1262	ND		mg/kg	0.0436	0.00554	1	A
Aroclor 1268	0.0131	J	mg/kg	0.0436	0.00452	1	A
PCBs, Total	0.0131	J	mg/kg	0.0436	0.00388	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	160	Q	30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-04
Client ID: SB2 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:20
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/28/22 09:14
Analyst: JM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/26/22 23:01
Cleanup Method: EPA 3665A
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0395	0.00351	1	A
Aroclor 1221	ND		mg/kg	0.0395	0.00396	1	A
Aroclor 1232	ND		mg/kg	0.0395	0.00838	1	A
Aroclor 1242	ND		mg/kg	0.0395	0.00533	1	A
Aroclor 1248	ND		mg/kg	0.0395	0.00593	1	A
Aroclor 1254	ND		mg/kg	0.0395	0.00432	1	A
Aroclor 1260	ND		mg/kg	0.0395	0.00731	1	A
Aroclor 1262	ND		mg/kg	0.0395	0.00502	1	A
Aroclor 1268	ND		mg/kg	0.0395	0.00410	1	A
PCBs, Total	ND		mg/kg	0.0395	0.00351	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	12/26/22 23:01
Analytical Date:	12/28/22 08:42	Cleanup Method:	EPA 3665A
Analyst:	JM	Cleanup Date:	12/28/22
Percent Solids:	84%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0383	0.00340	1	A
Aroclor 1221	ND		mg/kg	0.0383	0.00384	1	A
Aroclor 1232	ND		mg/kg	0.0383	0.00813	1	A
Aroclor 1242	ND		mg/kg	0.0383	0.00517	1	A
Aroclor 1248	ND		mg/kg	0.0383	0.00575	1	A
Aroclor 1254	ND		mg/kg	0.0383	0.00419	1	A
Aroclor 1260	0.0263	J	mg/kg	0.0383	0.00708	1	B
Aroclor 1262	ND		mg/kg	0.0383	0.00487	1	A
Aroclor 1268	ND		mg/kg	0.0383	0.00397	1	A
PCBs, Total	0.0263	J	mg/kg	0.0383	0.00340	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-06
Client ID: SB3 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:45
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/28/22 09:22
Analyst: JM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 12/26/22 23:01
Cleanup Method: EPA 3665A
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0356	0.00316	1	A
Aroclor 1221	ND		mg/kg	0.0356	0.00356	1	A
Aroclor 1232	ND		mg/kg	0.0356	0.00754	1	A
Aroclor 1242	ND		mg/kg	0.0356	0.00480	1	A
Aroclor 1248	ND		mg/kg	0.0356	0.00534	1	A
Aroclor 1254	ND		mg/kg	0.0356	0.00389	1	A
Aroclor 1260	ND		mg/kg	0.0356	0.00658	1	A
Aroclor 1262	ND		mg/kg	0.0356	0.00452	1	A
Aroclor 1268	ND		mg/kg	0.0356	0.00369	1	A
PCBs, Total	ND		mg/kg	0.0356	0.00316	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	12/26/22 23:01
Analytical Date:	12/28/22 09:30	Cleanup Method:	EPA 3665A
Analyst:	JM	Cleanup Date:	12/28/22
Percent Solids:	88%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0372	0.00330	1	A
Aroclor 1221	ND		mg/kg	0.0372	0.00373	1	A
Aroclor 1232	ND		mg/kg	0.0372	0.00789	1	A
Aroclor 1242	ND		mg/kg	0.0372	0.00502	1	A
Aroclor 1248	ND		mg/kg	0.0372	0.00558	1	A
Aroclor 1254	ND		mg/kg	0.0372	0.00407	1	A
Aroclor 1260	ND		mg/kg	0.0372	0.00688	1	A
Aroclor 1262	ND		mg/kg	0.0372	0.00473	1	A
Aroclor 1268	ND		mg/kg	0.0372	0.00386	1	A
PCBs, Total	ND		mg/kg	0.0372	0.00330	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-08
 Client ID: SB4 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/28/22 09:38
 Analyst: JM
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 12/26/22 23:01
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/28/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0373	0.00331	1	A
Aroclor 1221	ND		mg/kg	0.0373	0.00374	1	A
Aroclor 1232	ND		mg/kg	0.0373	0.00791	1	A
Aroclor 1242	ND		mg/kg	0.0373	0.00503	1	A
Aroclor 1248	ND		mg/kg	0.0373	0.00560	1	A
Aroclor 1254	ND		mg/kg	0.0373	0.00408	1	A
Aroclor 1260	ND		mg/kg	0.0373	0.00690	1	A
Aroclor 1262	ND		mg/kg	0.0373	0.00474	1	A
Aroclor 1268	ND		mg/kg	0.0373	0.00387	1	A
PCBs, Total	ND		mg/kg	0.0373	0.00331	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-09
 Client ID: SB5 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:05
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/28/22 09:46
 Analyst: JM
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 12/26/22 23:01
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/28/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0383	0.00340	1	A
Aroclor 1221	ND		mg/kg	0.0383	0.00384	1	A
Aroclor 1232	ND		mg/kg	0.0383	0.00812	1	A
Aroclor 1242	ND		mg/kg	0.0383	0.00517	1	A
Aroclor 1248	ND		mg/kg	0.0383	0.00575	1	A
Aroclor 1254	ND		mg/kg	0.0383	0.00419	1	A
Aroclor 1260	ND		mg/kg	0.0383	0.00708	1	A
Aroclor 1262	ND		mg/kg	0.0383	0.00487	1	A
Aroclor 1268	ND		mg/kg	0.0383	0.00397	1	A
PCBs, Total	ND		mg/kg	0.0383	0.00340	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-10
 Client ID: SB5 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:10
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/28/22 09:54
 Analyst: JM
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 12/26/22 23:01
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/28/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0392	0.00348	1	A
Aroclor 1221	ND		mg/kg	0.0392	0.00392	1	A
Aroclor 1232	ND		mg/kg	0.0392	0.00830	1	A
Aroclor 1242	ND		mg/kg	0.0392	0.00528	1	A
Aroclor 1248	ND		mg/kg	0.0392	0.00587	1	A
Aroclor 1254	ND		mg/kg	0.0392	0.00428	1	A
Aroclor 1260	ND		mg/kg	0.0392	0.00724	1	A
Aroclor 1262	ND		mg/kg	0.0392	0.00497	1	A
Aroclor 1268	ND		mg/kg	0.0392	0.00406	1	A
PCBs, Total	ND		mg/kg	0.0392	0.00348	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	12/26/22 23:01
Analytical Date:	12/28/22 08:50	Cleanup Method:	EPA 3665A
Analyst:	JM	Cleanup Date:	12/28/22
Percent Solids:	94%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0337	0.00299	1	A
Aroclor 1221	ND		mg/kg	0.0337	0.00338	1	A
Aroclor 1232	ND		mg/kg	0.0337	0.00714	1	A
Aroclor 1242	ND		mg/kg	0.0337	0.00454	1	A
Aroclor 1248	ND		mg/kg	0.0337	0.00505	1	A
Aroclor 1254	ND		mg/kg	0.0337	0.00368	1	A
Aroclor 1260	ND		mg/kg	0.0337	0.00622	1	A
Aroclor 1262	ND		mg/kg	0.0337	0.00428	1	A
Aroclor 1268	0.00359	J	mg/kg	0.0337	0.00349	1	A
PCBs, Total	0.00359	J	mg/kg	0.0337	0.00299	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-12
Client ID: SB6 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:20
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/28/22 10:02
Analyst: JM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/26/22 23:01
Cleanup Method: EPA 3665A
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0350	0.00310	1	A
Aroclor 1221	ND		mg/kg	0.0350	0.00350	1	A
Aroclor 1232	ND		mg/kg	0.0350	0.00741	1	A
Aroclor 1242	ND		mg/kg	0.0350	0.00471	1	A
Aroclor 1248	ND		mg/kg	0.0350	0.00525	1	A
Aroclor 1254	ND		mg/kg	0.0350	0.00383	1	A
Aroclor 1260	ND		mg/kg	0.0350	0.00646	1	A
Aroclor 1262	ND		mg/kg	0.0350	0.00444	1	A
Aroclor 1268	ND		mg/kg	0.0350	0.00362	1	A
PCBs, Total	ND		mg/kg	0.0350	0.00310	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	37		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-13
Client ID: SB7 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:30
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/28/22 08:58
Analyst: JM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 12/26/22 23:31
Cleanup Method: EPA 3665A
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0368	0.00327	1	A
Aroclor 1221	ND		mg/kg	0.0368	0.00369	1	A
Aroclor 1232	ND		mg/kg	0.0368	0.00780	1	A
Aroclor 1242	ND		mg/kg	0.0368	0.00496	1	A
Aroclor 1248	ND		mg/kg	0.0368	0.00552	1	A
Aroclor 1254	ND		mg/kg	0.0368	0.00402	1	A
Aroclor 1260	0.00902	J	mg/kg	0.0368	0.00680	1	A
Aroclor 1262	ND		mg/kg	0.0368	0.00467	1	A
Aroclor 1268	ND		mg/kg	0.0368	0.00381	1	A
PCBs, Total	0.00902	J	mg/kg	0.0368	0.00327	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-14
 Client ID: SB7 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:35
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/28/22 10:10
 Analyst: JM
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 12/26/22 23:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/28/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0352	0.00312	1	A
Aroclor 1221	ND		mg/kg	0.0352	0.00352	1	A
Aroclor 1232	ND		mg/kg	0.0352	0.00746	1	A
Aroclor 1242	ND		mg/kg	0.0352	0.00474	1	A
Aroclor 1248	ND		mg/kg	0.0352	0.00528	1	A
Aroclor 1254	ND		mg/kg	0.0352	0.00385	1	A
Aroclor 1260	ND		mg/kg	0.0352	0.00650	1	A
Aroclor 1262	ND		mg/kg	0.0352	0.00447	1	A
Aroclor 1268	ND		mg/kg	0.0352	0.00364	1	A
PCBs, Total	ND		mg/kg	0.0352	0.00312	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-15
 Client ID: SB8 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:45
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/28/22 10:18
 Analyst: JM
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 12/26/22 23:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/28/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0350	0.00310	1	A
Aroclor 1221	ND		mg/kg	0.0350	0.00350	1	A
Aroclor 1232	ND		mg/kg	0.0350	0.00741	1	A
Aroclor 1242	ND		mg/kg	0.0350	0.00471	1	A
Aroclor 1248	ND		mg/kg	0.0350	0.00524	1	A
Aroclor 1254	ND		mg/kg	0.0350	0.00382	1	A
Aroclor 1260	ND		mg/kg	0.0350	0.00646	1	A
Aroclor 1262	ND		mg/kg	0.0350	0.00444	1	A
Aroclor 1268	ND		mg/kg	0.0350	0.00362	1	A
PCBs, Total	ND		mg/kg	0.0350	0.00310	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-16
 Client ID: SB8 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/28/22 10:26
 Analyst: JM
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 12/26/22 23:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/28/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0403	0.00358	1	A
Aroclor 1221	ND		mg/kg	0.0403	0.00403	1	A
Aroclor 1232	ND		mg/kg	0.0403	0.00854	1	A
Aroclor 1242	ND		mg/kg	0.0403	0.00543	1	A
Aroclor 1248	ND		mg/kg	0.0403	0.00604	1	A
Aroclor 1254	ND		mg/kg	0.0403	0.00440	1	A
Aroclor 1260	ND		mg/kg	0.0403	0.00744	1	A
Aroclor 1262	ND		mg/kg	0.0403	0.00511	1	A
Aroclor 1268	ND		mg/kg	0.0403	0.00417	1	A
PCBs, Total	ND		mg/kg	0.0403	0.00358	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/28/22 10:34
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 12/26/22 23:01
Cleanup Method: EPA 3665A
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s):	01-16		Batch:	WG1727505-1		
Aroclor 1016	ND		mg/kg	0.0320	0.00284	A
Aroclor 1221	ND		mg/kg	0.0320	0.00320	A
Aroclor 1232	ND		mg/kg	0.0320	0.00678	A
Aroclor 1242	ND		mg/kg	0.0320	0.00431	A
Aroclor 1248	ND		mg/kg	0.0320	0.00480	A
Aroclor 1254	ND		mg/kg	0.0320	0.00350	A
Aroclor 1260	ND		mg/kg	0.0320	0.00591	A
Aroclor 1262	ND		mg/kg	0.0320	0.00406	A
Aroclor 1268	ND		mg/kg	0.0320	0.00331	A
PCBs, Total	ND		mg/kg	0.0320	0.00284	A

Surrogate	%Recovery	Acceptance		
		Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	48		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-16 Batch: WG1727505-2 WG1727505-3									
Aroclor 1016	84		94		40-140	11		50	A
Aroclor 1260	68		75		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		77		30-150	A
Decachlorobiphenyl	53		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		74		30-150	B
Decachlorobiphenyl	51		57		30-150	B

PESTICIDES

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-01
Client ID: SB1 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:00
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 10:12
Analyst: AAR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00078	0.00017	1	A
Lindane	ND		mg/kg	0.00078	0.00034	1	A
Beta-BHC	ND		mg/kg	0.00188	0.00071	1	A
Delta-BHC	ND		mg/kg	0.00188	0.00037	1	A
Heptachlor	ND		mg/kg	0.00093	0.00042	1	A
Aldrin	ND		mg/kg	0.00188	0.00066	1	A
Heptachlor epoxide	ND		mg/kg	0.00352	0.00105	1	A
Endosulfan I	ND		mg/kg	0.00188	0.00044	1	A
trans-Chlordane	0.0164		mg/kg	0.00234	0.00061	1	B
cis-Chlordane	0.0163		mg/kg	0.00234	0.00065	1	B
4,4'-DDE	0.0419	IP	mg/kg	0.00188	0.00043	1	A
Dieldrin	ND		mg/kg	0.00117	0.00058	1	A
Endrin	ND		mg/kg	0.00078	0.00032	1	A
4,4'-DDD	0.00346	IP	mg/kg	0.00188	0.00066	1	B
Endosulfan II	ND		mg/kg	0.00188	0.00062	1	A
4,4'-DDT	0.155		mg/kg	0.00352	0.00151	1	A
Endrin aldehyde	ND		mg/kg	0.00234	0.00082	1	A
Methoxychlor	ND		mg/kg	0.00352	0.00109	1	A
Endosulfan sulfate	ND		mg/kg	0.00078	0.00035	1	A
Endrin ketone	ND		mg/kg	0.00188	0.00048	1	A
Toxaphene	ND		mg/kg	0.0352	0.00984	1	A
Chlordane	0.135	P	mg/kg	0.0156	0.00621	1	B



Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-01
 Client ID: SB1 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:00
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	218	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	680	Q	30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-02
Client ID: SB1 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:05
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 11:28
Analyst: MMG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00073	0.00016	1	A
Lindane	ND		mg/kg	0.00073	0.00032	1	A
Beta-BHC	ND		mg/kg	0.00175	0.00066	1	A
Delta-BHC	ND		mg/kg	0.00175	0.00034	1	A
Heptachlor	ND		mg/kg	0.00087	0.00039	1	A
Aldrin	ND		mg/kg	0.00175	0.00061	1	A
Heptachlor epoxide	ND		mg/kg	0.00329	0.00098	1	A
Endosulfan I	ND		mg/kg	0.00175	0.00041	1	A
trans-Chlordane	ND		mg/kg	0.00219	0.00057	1	A
cis-Chlordane	ND		mg/kg	0.00219	0.00061	1	A
4,4'-DDE	ND		mg/kg	0.00175	0.00040	1	A
Dieldrin	ND		mg/kg	0.00110	0.00054	1	A
Endrin	ND		mg/kg	0.00073	0.00029	1	A
4,4'-DDD	ND		mg/kg	0.00175	0.00062	1	A
Endosulfan II	ND		mg/kg	0.00175	0.00058	1	A
4,4'-DDT	ND		mg/kg	0.00329	0.00141	1	A
Endrin aldehyde	ND		mg/kg	0.00219	0.00076	1	A
Methoxychlor	ND		mg/kg	0.00329	0.00102	1	A
Endosulfan sulfate	ND		mg/kg	0.00073	0.00033	1	A
Endrin ketone	ND		mg/kg	0.00175	0.00045	1	A
Toxaphene	ND		mg/kg	0.0329	0.00920	1	A
Chlordane	ND		mg/kg	0.0146	0.00581	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-02
 Client ID: SB1 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:05
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-03
Client ID: SB2 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:10
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 10:22
Analyst: AAR
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00084	0.00019	1	A
Lindane	ND		mg/kg	0.00084	0.00037	1	A
Beta-BHC	ND		mg/kg	0.00202	0.00076	1	A
Delta-BHC	ND		mg/kg	0.00202	0.00040	1	A
Heptachlor	ND		mg/kg	0.00101	0.00045	1	A
Aldrin	ND		mg/kg	0.00202	0.00071	1	A
Heptachlor epoxide	ND		mg/kg	0.00379	0.00114	1	A
Endosulfan I	ND		mg/kg	0.00202	0.00047	1	A
trans-Chlordane	ND		mg/kg	0.00253	0.00066	1	A
cis-Chlordane	0.00682	IP	mg/kg	0.00253	0.00070	1	A
4,4'-DDE	0.0362	IP	mg/kg	0.00202	0.00046	1	A
Dieldrin	ND		mg/kg	0.00126	0.00063	1	A
Endrin	ND		mg/kg	0.00084	0.00034	1	A
4,4'-DDD	0.00425	IP	mg/kg	0.00202	0.00072	1	B
Endosulfan II	ND		mg/kg	0.00202	0.00067	1	A
4,4'-DDT	0.251	E	mg/kg	0.00379	0.00163	1	B
Endrin aldehyde	ND		mg/kg	0.00253	0.00088	1	A
Methoxychlor	ND		mg/kg	0.00379	0.00118	1	A
Endosulfan sulfate	ND		mg/kg	0.00084	0.00038	1	A
Endrin ketone	ND		mg/kg	0.00202	0.00052	1	A
Toxaphene	ND		mg/kg	0.0379	0.0106	1	A
Chlordane	ND		mg/kg	0.0169	0.00670	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-03
 Client ID: SB2 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:10
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	690	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	5980	Q	30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-03 D
Client ID: SB2 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:10
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/28/22 01:15
Analyst: MMG
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
4,4'-DDT	0.244		mg/kg	0.0190	0.00814	5	A

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-04
Client ID: SB2 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:20
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 11:39
Analyst: MMG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00080	0.00018	1	A
Lindane	ND		mg/kg	0.00080	0.00035	1	A
Beta-BHC	ND		mg/kg	0.00193	0.00073	1	A
Delta-BHC	ND		mg/kg	0.00193	0.00038	1	A
Heptachlor	ND		mg/kg	0.00096	0.00043	1	A
Aldrin	ND		mg/kg	0.00193	0.00068	1	A
Heptachlor epoxide	ND		mg/kg	0.00362	0.00108	1	A
Endosulfan I	ND		mg/kg	0.00193	0.00045	1	A
trans-Chlordane	ND		mg/kg	0.00241	0.00063	1	A
cis-Chlordane	ND		mg/kg	0.00241	0.00067	1	A
4,4'-DDE	0.00068	JIP	mg/kg	0.00193	0.00044	1	A
Dieldrin	ND		mg/kg	0.00121	0.00060	1	A
Endrin	ND		mg/kg	0.00080	0.00033	1	A
4,4'-DDD	ND		mg/kg	0.00193	0.00068	1	A
Endosulfan II	ND		mg/kg	0.00193	0.00064	1	A
4,4'-DDT	0.00205	J	mg/kg	0.00362	0.00155	1	B
Endrin aldehyde	ND		mg/kg	0.00241	0.00084	1	A
Methoxychlor	ND		mg/kg	0.00362	0.00112	1	A
Endosulfan sulfate	ND		mg/kg	0.00080	0.00036	1	A
Endrin ketone	ND		mg/kg	0.00193	0.00049	1	A
Toxaphene	ND		mg/kg	0.0362	0.0101	1	A
Chlordane	ND		mg/kg	0.0161	0.00639	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-04
 Client ID: SB2 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:20
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-05
Client ID: SB3 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:30
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 10:34
Analyst: AAR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00075	0.00017	1	A
Lindane	ND		mg/kg	0.00075	0.00033	1	A
Beta-BHC	ND		mg/kg	0.00181	0.00068	1	A
Delta-BHC	ND		mg/kg	0.00181	0.00035	1	A
Heptachlor	ND		mg/kg	0.00090	0.00040	1	A
Aldrin	ND		mg/kg	0.00181	0.00063	1	A
Heptachlor epoxide	ND		mg/kg	0.00339	0.00102	1	A
Endosulfan I	ND		mg/kg	0.00181	0.00042	1	A
trans-Chlordane	0.00187	J	mg/kg	0.00226	0.00059	1	B
cis-Chlordane	0.00184	JIP	mg/kg	0.00226	0.00063	1	B
4,4'-DDE	0.0336		mg/kg	0.00181	0.00041	1	B
Dieldrin	ND		mg/kg	0.00113	0.00056	1	A
Endrin	ND		mg/kg	0.00075	0.00030	1	A
4,4'-DDD	0.00230		mg/kg	0.00181	0.00064	1	A
Endosulfan II	ND		mg/kg	0.00181	0.00060	1	A
4,4'-DDT	0.0308		mg/kg	0.00339	0.00145	1	A
Endrin aldehyde	ND		mg/kg	0.00226	0.00079	1	A
Methoxychlor	ND		mg/kg	0.00339	0.00105	1	A
Endosulfan sulfate	ND		mg/kg	0.00075	0.00034	1	A
Endrin ketone	ND		mg/kg	0.00181	0.00046	1	A
Toxaphene	ND		mg/kg	0.0339	0.00949	1	A
Chlordane	ND		mg/kg	0.0151	0.00599	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-05
 Client ID: SB3 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:30
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	186	Q	30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-06
Client ID: SB3 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:45
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 10:45
Analyst: AAR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00072	0.00016	1	A
Lindane	ND		mg/kg	0.00072	0.00032	1	A
Beta-BHC	ND		mg/kg	0.00173	0.00065	1	A
Delta-BHC	ND		mg/kg	0.00173	0.00034	1	A
Heptachlor	ND		mg/kg	0.00086	0.00038	1	A
Aldrin	ND		mg/kg	0.00173	0.00061	1	A
Heptachlor epoxide	ND		mg/kg	0.00325	0.00097	1	A
Endosulfan I	ND		mg/kg	0.00173	0.00040	1	A
trans-Chlordane	0.00208	JP	mg/kg	0.00216	0.00057	1	A
cis-Chlordane	0.00300		mg/kg	0.00216	0.00060	1	B
4,4'-DDE	0.00611	IP	mg/kg	0.00173	0.00040	1	A
Dieldrin	ND		mg/kg	0.00108	0.00054	1	A
Endrin	ND		mg/kg	0.00072	0.00029	1	A
4,4'-DDD	0.00218	IP	mg/kg	0.00173	0.00061	1	B
Endosulfan II	ND		mg/kg	0.00173	0.00057	1	A
4,4'-DDT	0.0104	IP	mg/kg	0.00325	0.00139	1	B
Endrin aldehyde	ND		mg/kg	0.00216	0.00075	1	A
Methoxychlor	ND		mg/kg	0.00325	0.00101	1	A
Endosulfan sulfate	ND		mg/kg	0.00072	0.00033	1	A
Endrin ketone	ND		mg/kg	0.00173	0.00044	1	A
Toxaphene	ND		mg/kg	0.0325	0.00909	1	A
Chlordane	ND		mg/kg	0.0144	0.00574	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-06
 Client ID: SB3 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:45
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	186	Q	30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-07
Client ID: SB4 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:50
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 10:56
Analyst: MMG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00073	0.00016	1	A
Lindane	ND		mg/kg	0.00073	0.00032	1	A
Beta-BHC	ND		mg/kg	0.00176	0.00066	1	A
Delta-BHC	ND		mg/kg	0.00176	0.00034	1	A
Heptachlor	ND		mg/kg	0.00088	0.00039	1	A
Aldrin	ND		mg/kg	0.00176	0.00062	1	A
Heptachlor epoxide	ND		mg/kg	0.00330	0.00099	1	A
Endosulfan I	ND		mg/kg	0.00176	0.00041	1	A
trans-Chlordane	ND		mg/kg	0.00220	0.00058	1	A
cis-Chlordane	ND		mg/kg	0.00220	0.00061	1	A
4,4'-DDE	ND		mg/kg	0.00176	0.00040	1	A
Dieldrin	ND		mg/kg	0.00110	0.00055	1	A
Endrin	ND		mg/kg	0.00073	0.00030	1	A
4,4'-DDD	ND		mg/kg	0.00176	0.00062	1	A
Endosulfan II	ND		mg/kg	0.00176	0.00058	1	A
4,4'-DDT	ND		mg/kg	0.00330	0.00142	1	A
Endrin aldehyde	ND		mg/kg	0.00220	0.00077	1	A
Methoxychlor	ND		mg/kg	0.00330	0.00103	1	A
Endosulfan sulfate	ND		mg/kg	0.00073	0.00033	1	A
Endrin ketone	ND		mg/kg	0.00176	0.00045	1	A
Toxaphene	ND		mg/kg	0.0330	0.00925	1	A
Chlordane	ND		mg/kg	0.0147	0.00584	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-07
 Client ID: SB4 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:50
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-08
Client ID: SB4 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:55
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 11:50
Analyst: MMG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00077	0.00017	1	A
Lindane	ND		mg/kg	0.00077	0.00034	1	A
Beta-BHC	ND		mg/kg	0.00186	0.00070	1	A
Delta-BHC	ND		mg/kg	0.00186	0.00036	1	A
Heptachlor	ND		mg/kg	0.00093	0.00041	1	A
Aldrin	ND		mg/kg	0.00186	0.00065	1	A
Heptachlor epoxide	ND		mg/kg	0.00349	0.00105	1	A
Endosulfan I	ND		mg/kg	0.00186	0.00044	1	A
trans-Chlordane	ND		mg/kg	0.00232	0.00061	1	A
cis-Chlordane	ND		mg/kg	0.00232	0.00064	1	A
4,4'-DDE	ND		mg/kg	0.00186	0.00043	1	A
Dieldrin	ND		mg/kg	0.00116	0.00058	1	A
Endrin	ND		mg/kg	0.00077	0.00031	1	A
4,4'-DDD	ND		mg/kg	0.00186	0.00066	1	A
Endosulfan II	ND		mg/kg	0.00186	0.00062	1	A
4,4'-DDT	ND		mg/kg	0.00349	0.00150	1	A
Endrin aldehyde	ND		mg/kg	0.00232	0.00081	1	A
Methoxychlor	ND		mg/kg	0.00349	0.00108	1	A
Endosulfan sulfate	ND		mg/kg	0.00077	0.00035	1	A
Endrin ketone	ND		mg/kg	0.00186	0.00047	1	A
Toxaphene	ND		mg/kg	0.0349	0.00977	1	A
Chlordane	ND		mg/kg	0.0155	0.00616	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-08
 Client ID: SB4 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-09
Client ID: SB5 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:05
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 11:06
Analyst: MMG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00077	0.00017	1	A
Lindane	ND		mg/kg	0.00077	0.00034	1	A
Beta-BHC	ND		mg/kg	0.00185	0.00070	1	A
Delta-BHC	ND		mg/kg	0.00185	0.00036	1	A
Heptachlor	ND		mg/kg	0.00092	0.00041	1	A
Aldrin	ND		mg/kg	0.00185	0.00065	1	A
Heptachlor epoxide	ND		mg/kg	0.00347	0.00104	1	A
Endosulfan I	ND		mg/kg	0.00185	0.00043	1	A
trans-Chlordane	0.00137	JIP	mg/kg	0.00231	0.00061	1	B
cis-Chlordane	0.00204	JIP	mg/kg	0.00231	0.00064	1	A
4,4'-DDE	0.00445	IP	mg/kg	0.00185	0.00042	1	A
Dieldrin	ND		mg/kg	0.00116	0.00057	1	A
Endrin	ND		mg/kg	0.00077	0.00031	1	A
4,4'-DDD	0.00067	JIP	mg/kg	0.00185	0.00066	1	B
Endosulfan II	ND		mg/kg	0.00185	0.00061	1	A
4,4'-DDT	0.0402		mg/kg	0.00347	0.00149	1	B
Endrin aldehyde	ND		mg/kg	0.00231	0.00080	1	A
Methoxychlor	ND		mg/kg	0.00347	0.00108	1	A
Endosulfan sulfate	ND		mg/kg	0.00077	0.00035	1	A
Endrin ketone	ND		mg/kg	0.00185	0.00047	1	A
Toxaphene	ND		mg/kg	0.0347	0.00971	1	A
Chlordane	0.0547		mg/kg	0.0154	0.00612	1	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-09
 Client ID: SB5 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:05
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	289	Q	30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-10
Client ID: SB5 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:10
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 12:01
Analyst: MMG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00079	0.00018	1	A
Lindane	ND		mg/kg	0.00079	0.00035	1	A
Beta-BHC	ND		mg/kg	0.00192	0.00072	1	A
Delta-BHC	ND		mg/kg	0.00192	0.00037	1	A
Heptachlor	ND		mg/kg	0.00095	0.00043	1	A
Aldrin	ND		mg/kg	0.00192	0.00067	1	A
Heptachlor epoxide	ND		mg/kg	0.00359	0.00108	1	A
Endosulfan I	ND		mg/kg	0.00192	0.00045	1	A
trans-Chlordane	ND		mg/kg	0.00240	0.00063	1	A
cis-Chlordane	ND		mg/kg	0.00240	0.00066	1	A
4,4'-DDE	ND		mg/kg	0.00192	0.00044	1	A
Dieldrin	ND		mg/kg	0.00120	0.00059	1	A
Endrin	ND		mg/kg	0.00079	0.00032	1	A
4,4'-DDD	ND		mg/kg	0.00192	0.00068	1	A
Endosulfan II	ND		mg/kg	0.00192	0.00064	1	A
4,4'-DDT	ND		mg/kg	0.00359	0.00154	1	A
Endrin aldehyde	ND		mg/kg	0.00240	0.00083	1	A
Methoxychlor	ND		mg/kg	0.00359	0.00112	1	A
Endosulfan sulfate	ND		mg/kg	0.00079	0.00036	1	A
Endrin ketone	ND		mg/kg	0.00192	0.00049	1	A
Toxaphene	ND		mg/kg	0.0359	0.0101	1	A
Chlordane	ND		mg/kg	0.0160	0.00635	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-10
 Client ID: SB5 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:10
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-11
Client ID: SB6 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:15
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/27/22 11:17
Analyst: AAR
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00067	0.00015	1	A
Lindane	ND		mg/kg	0.00067	0.00030	1	A
Beta-BHC	ND		mg/kg	0.00163	0.00061	1	A
Delta-BHC	ND		mg/kg	0.00163	0.00032	1	A
Heptachlor	ND		mg/kg	0.00081	0.00036	1	A
Aldrin	0.00057	J	mg/kg	0.00163	0.00057	1	B
Heptachlor epoxide	ND		mg/kg	0.00305	0.00091	1	A
Endosulfan I	ND		mg/kg	0.00163	0.00038	1	A
trans-Chlordane	0.00158	JP	mg/kg	0.00204	0.00053	1	A
cis-Chlordane	0.00243	IP	mg/kg	0.00204	0.00056	1	B
4,4'-DDE	0.00267	IP	mg/kg	0.00163	0.00037	1	A
Dieldrin	0.00269		mg/kg	0.00102	0.00050	1	B
Endrin	ND		mg/kg	0.00067	0.00027	1	A
4,4'-DDD	ND	IP	mg/kg	0.00163	0.00058	1	B
Endosulfan II	ND		mg/kg	0.00163	0.00054	1	A
4,4'-DDT	0.00444	IP	mg/kg	0.00305	0.00131	1	A
Endrin aldehyde	ND		mg/kg	0.00204	0.00071	1	A
Methoxychlor	ND		mg/kg	0.00305	0.00095	1	A
Endosulfan sulfate	ND		mg/kg	0.00067	0.00031	1	A
Endrin ketone	ND		mg/kg	0.00163	0.00041	1	A
Toxaphene	ND		mg/kg	0.0305	0.00855	1	A
Chlordane	0.0225		mg/kg	0.0136	0.00539	1	B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-11
 Client ID: SB6 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:15
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	150		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-12	Date Collected:	12/19/22 11:20
Client ID:	SB6 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	12/25/22 04:26
Analytical Date:	12/27/22 12:12	Cleanup Method:	EPA 3620B
Analyst:	MMG	Cleanup Date:	12/27/22
Percent Solids:	91%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00071	0.00016	1	A
Lindane	ND		mg/kg	0.00071	0.00032	1	A
Beta-BHC	ND		mg/kg	0.00172	0.00065	1	A
Delta-BHC	ND		mg/kg	0.00172	0.00033	1	A
Heptachlor	ND		mg/kg	0.00085	0.00038	1	A
Aldrin	ND		mg/kg	0.00172	0.00060	1	A
Heptachlor epoxide	ND		mg/kg	0.00322	0.00096	1	A
Endosulfan I	ND		mg/kg	0.00172	0.00040	1	A
trans-Chlordane	ND		mg/kg	0.00214	0.00056	1	A
cis-Chlordane	ND		mg/kg	0.00214	0.00059	1	A
4,4'-DDE	ND		mg/kg	0.00172	0.00039	1	A
Dieldrin	ND		mg/kg	0.00107	0.00053	1	A
Endrin	ND		mg/kg	0.00071	0.00029	1	A
4,4'-DDD	ND		mg/kg	0.00172	0.00061	1	A
Endosulfan II	ND		mg/kg	0.00172	0.00057	1	A
4,4'-DDT	ND		mg/kg	0.00322	0.00138	1	A
Endrin aldehyde	ND		mg/kg	0.00214	0.00075	1	A
Methoxychlor	ND		mg/kg	0.00322	0.00100	1	A
Endosulfan sulfate	ND		mg/kg	0.00071	0.00032	1	A
Endrin ketone	ND		mg/kg	0.00172	0.00044	1	A
Toxaphene	ND		mg/kg	0.0322	0.00901	1	A
Chlordane	ND		mg/kg	0.0143	0.00568	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-12
 Client ID: SB6 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:20
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	12/27/22 08:36
Analytical Date:	12/28/22 13:41	Cleanup Method:	EPA 3620B
Analyst:	MMG	Cleanup Date:	12/28/22
Percent Solids:	89%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00073	0.00016	1	A
Lindane	ND		mg/kg	0.00073	0.00032	1	A
Beta-BHC	ND		mg/kg	0.00175	0.00066	1	A
Delta-BHC	ND		mg/kg	0.00175	0.00034	1	A
Heptachlor	ND		mg/kg	0.00087	0.00039	1	A
Aldrin	ND		mg/kg	0.00175	0.00061	1	A
Heptachlor epoxide	ND		mg/kg	0.00329	0.00098	1	A
Endosulfan I	ND		mg/kg	0.00175	0.00041	1	A
trans-Chlordane	ND		mg/kg	0.00219	0.00057	1	A
cis-Chlordane	ND		mg/kg	0.00219	0.00061	1	A
4,4'-DDE	0.195	E	mg/kg	0.00175	0.00040	1	B
Dieldrin	ND		mg/kg	0.00110	0.00054	1	A
Endrin	ND		mg/kg	0.00073	0.00030	1	A
4,4'-DDD	0.0322		mg/kg	0.00175	0.00062	1	B
Endosulfan II	ND		mg/kg	0.00175	0.00058	1	A
4,4'-DDT	0.216	E	mg/kg	0.00329	0.00141	1	A
Endrin aldehyde	ND		mg/kg	0.00219	0.00076	1	A
Methoxychlor	ND		mg/kg	0.00329	0.00102	1	A
Endosulfan sulfate	ND		mg/kg	0.00073	0.00033	1	A
Endrin ketone	ND		mg/kg	0.00175	0.00045	1	A
Toxaphene	ND		mg/kg	0.0329	0.00921	1	A
Chlordane	ND		mg/kg	0.0146	0.00581	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-13
 Client ID: SB7 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:30
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Surrogate			% Recovery	Qualifier	Acceptance Criteria		Column
2,4,5,6-Tetrachloro-m-xylene			106		30-150		A
Decachlorobiphenyl	176	Q			30-150		A
2,4,5,6-Tetrachloro-m-xylene	108				30-150		B
Decachlorobiphenyl	970	Q			30-150		B

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	D	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)		Date Received:	12/20/22
Sample Location:	PHILLY, PA		Field Prep:	Not Specified

Sample Depth:

Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	12/27/22 08:36
Analytical Date:	12/29/22 11:47	Cleanup Method:	EPA 3620B
Analyst:	AKM	Cleanup Date:	12/28/22
Percent Solids:	89%	Cleanup Method:	EPA 3660B
		Cleanup Date:	12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
4,4'-DDE	0.345	P	mg/kg	0.00877	0.00203	5	B
4,4'-DDT	0.257		mg/kg	0.0164	0.00705	5	A

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-14
Client ID: SB7 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:35
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/28/22 13:53
Analyst: MMG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 12/27/22 08:36
Cleanup Method: EPA 3620B
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00071	0.00016	1	A
Lindane	ND		mg/kg	0.00071	0.00031	1	A
Beta-BHC	ND		mg/kg	0.00171	0.00064	1	A
Delta-BHC	ND		mg/kg	0.00171	0.00033	1	A
Heptachlor	ND		mg/kg	0.00085	0.00038	1	A
Aldrin	ND		mg/kg	0.00171	0.00060	1	A
Heptachlor epoxide	ND		mg/kg	0.00320	0.00096	1	A
Endosulfan I	ND		mg/kg	0.00171	0.00040	1	A
trans-Chlordane	ND		mg/kg	0.00214	0.00056	1	A
cis-Chlordane	ND		mg/kg	0.00214	0.00059	1	A
4,4'-DDE	ND		mg/kg	0.00171	0.00039	1	A
Dieldrin	ND		mg/kg	0.00107	0.00053	1	A
Endrin	ND		mg/kg	0.00071	0.00029	1	A
4,4'-DDD	ND		mg/kg	0.00171	0.00060	1	A
Endosulfan II	ND		mg/kg	0.00171	0.00057	1	A
4,4'-DDT	ND		mg/kg	0.00320	0.00137	1	A
Endrin aldehyde	ND		mg/kg	0.00214	0.00074	1	A
Methoxychlor	ND		mg/kg	0.00320	0.00099	1	A
Endosulfan sulfate	ND		mg/kg	0.00071	0.00032	1	A
Endrin ketone	ND		mg/kg	0.00171	0.00044	1	A
Toxaphene	ND		mg/kg	0.0320	0.00897	1	A
Chlordane	ND		mg/kg	0.0142	0.00566	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-14
 Client ID: SB7 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:35
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	186	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-15
Client ID: SB8 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:45
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/28/22 14:06
Analyst: MMG
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/27/22 08:36
Cleanup Method: EPA 3620B
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00070	0.00016	1	A
Lindane	ND		mg/kg	0.00070	0.00031	1	A
Beta-BHC	ND		mg/kg	0.00169	0.00064	1	A
Delta-BHC	ND		mg/kg	0.00169	0.00033	1	A
Heptachlor	ND		mg/kg	0.00084	0.00038	1	A
Aldrin	ND		mg/kg	0.00169	0.00059	1	A
Heptachlor epoxide	ND		mg/kg	0.00318	0.00095	1	A
Endosulfan I	ND		mg/kg	0.00169	0.00040	1	A
trans-Chlordane	ND		mg/kg	0.00212	0.00055	1	A
cis-Chlordane	ND		mg/kg	0.00212	0.00059	1	A
4,4'-DDE	0.00508		mg/kg	0.00169	0.00039	1	A
Dieldrin	ND		mg/kg	0.00106	0.00052	1	A
Endrin	ND		mg/kg	0.00070	0.00028	1	A
4,4'-DDD	ND		mg/kg	0.00169	0.00060	1	A
Endosulfan II	ND		mg/kg	0.00169	0.00056	1	A
4,4'-DDT	0.00210	J	mg/kg	0.00318	0.00136	1	B
Endrin aldehyde	ND		mg/kg	0.00212	0.00074	1	A
Methoxychlor	ND		mg/kg	0.00318	0.00098	1	A
Endosulfan sulfate	ND		mg/kg	0.00070	0.00032	1	A
Endrin ketone	ND		mg/kg	0.00169	0.00043	1	A
Toxaphene	ND		mg/kg	0.0318	0.00889	1	A
Chlordane	ND		mg/kg	0.0141	0.00561	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-15
 Client ID: SB8 (0-2)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:45
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-16
Client ID: SB8 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:55
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/28/22 14:18
Analyst: MMG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 12/27/22 08:36
Cleanup Method: EPA 3620B
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							
Alpha-BHC	ND		mg/kg	0.00082	0.00018	1	A
Lindane	ND		mg/kg	0.00082	0.00036	1	A
Beta-BHC	ND		mg/kg	0.00197	0.00074	1	A
Delta-BHC	ND		mg/kg	0.00197	0.00038	1	A
Heptachlor	ND		mg/kg	0.00098	0.00044	1	A
Aldrin	ND		mg/kg	0.00197	0.00069	1	A
Heptachlor epoxide	ND		mg/kg	0.00369	0.00111	1	A
Endosulfan I	ND		mg/kg	0.00197	0.00046	1	A
trans-Chlordane	ND		mg/kg	0.00246	0.00064	1	A
cis-Chlordane	0.00096	J	mg/kg	0.00246	0.00068	1	A
4,4'-DDE	0.00537		mg/kg	0.00197	0.00045	1	A
Dieldrin	ND		mg/kg	0.00123	0.00061	1	A
Endrin	ND		mg/kg	0.00082	0.00033	1	A
4,4'-DDD	ND		mg/kg	0.00197	0.00070	1	B
Endosulfan II	ND		mg/kg	0.00197	0.00065	1	A
4,4'-DDT	0.00631		mg/kg	0.00369	0.00158	1	A
Endrin aldehyde	ND		mg/kg	0.00246	0.00086	1	A
Methoxychlor	ND		mg/kg	0.00369	0.00115	1	A
Endosulfan sulfate	ND		mg/kg	0.00082	0.00037	1	A
Endrin ketone	ND		mg/kg	0.00197	0.00050	1	A
Toxaphene	ND		mg/kg	0.0369	0.0103	1	A
Chlordane	ND		mg/kg	0.0164	0.00652	1	A

Project Name: 38TH & BROWN

Lab Number: L2271474

Project Number: 1069022

Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-16
 Client ID: SB8 (2-15)
 Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:55
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/27/22 09:39
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-12 Batch: WG1727412-1						
Alpha-BHC	ND		mg/kg	0.00064	0.00014	A
Lindane	ND		mg/kg	0.00064	0.00028	A
Beta-BHC	ND		mg/kg	0.00155	0.00058	A
Delta-BHC	ND		mg/kg	0.00155	0.00030	A
Heptachlor	ND		mg/kg	0.00077	0.00034	A
Aldrin	ND		mg/kg	0.00155	0.00054	A
Heptachlor epoxide	ND		mg/kg	0.00291	0.00087	A
Endosulfan I	ND		mg/kg	0.00155	0.00036	A
trans-Chlordane	ND		mg/kg	0.00194	0.00051	A
cis-Chlordane	ND		mg/kg	0.00194	0.00054	A
4,4'-DDE	ND		mg/kg	0.00155	0.00035	A
Dieldrin	ND		mg/kg	0.00096	0.00048	A
Endrin	ND		mg/kg	0.00064	0.00026	A
4,4'-DDD	ND		mg/kg	0.00155	0.00055	A
Endosulfan II	ND		mg/kg	0.00155	0.00051	A
4,4'-DDT	ND		mg/kg	0.00291	0.00125	A
Endrin aldehyde	ND		mg/kg	0.00194	0.00067	A
Methoxychlor	ND		mg/kg	0.00291	0.00090	A
Endosulfan sulfate	ND		mg/kg	0.00064	0.00029	A
Endrin ketone	ND		mg/kg	0.00155	0.00039	A
Toxaphene	ND		mg/kg	0.0291	0.00814	A
Chlordane	ND		mg/kg	0.0129	0.00514	A



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis

Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/27/22 09:39
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 12/25/22 04:26
Cleanup Method: EPA 3620B
Cleanup Date: 12/27/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/27/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 01-12 Batch: WG1727412-1						

Surrogate	%Recovery	Acceptance Criteria			Column
		Qualifier	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A	
Decachlorobiphenyl	103		30-150	A	
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B	
Decachlorobiphenyl	81		30-150	B	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/28/22 13:03
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 12/27/22 08:36
Cleanup Method: EPA 3620B
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 13-16 Batch: WG1727615-1						
Alpha-BHC	ND		mg/kg	0.00063	0.00014	A
Lindane	ND		mg/kg	0.00063	0.00028	A
Beta-BHC	ND		mg/kg	0.00152	0.00057	A
Delta-BHC	ND		mg/kg	0.00152	0.00030	A
Heptachlor	ND		mg/kg	0.00076	0.00034	A
Aldrin	ND		mg/kg	0.00152	0.00053	A
Heptachlor epoxide	ND		mg/kg	0.00286	0.00085	A
Endosulfan I	ND		mg/kg	0.00152	0.00036	A
trans-Chlordane	ND		mg/kg	0.00190	0.00050	A
cis-Chlordane	ND		mg/kg	0.00190	0.00053	A
4,4'-DDE	ND		mg/kg	0.00152	0.00035	A
Dieldrin	ND		mg/kg	0.00095	0.00047	A
Endrin	ND		mg/kg	0.00063	0.00026	A
4,4'-DDD	ND		mg/kg	0.00152	0.00054	A
Endosulfan II	ND		mg/kg	0.00152	0.00050	A
4,4'-DDT	ND		mg/kg	0.00286	0.00122	A
Endrin aldehyde	ND		mg/kg	0.00190	0.00066	A
Methoxychlor	ND		mg/kg	0.00286	0.00088	A
Endosulfan sulfate	ND		mg/kg	0.00063	0.00029	A
Endrin ketone	ND		mg/kg	0.00152	0.00039	A
Toxaphene	ND		mg/kg	0.0286	0.00800	A
Chlordane	ND		mg/kg	0.0127	0.00505	A

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/28/22 13:03
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 12/27/22 08:36
Cleanup Method: EPA 3620B
Cleanup Date: 12/28/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Pesticides by GC - Westborough Lab for sample(s): 13-16			Batch: WG1727615-1			

Surrogate	%Recovery	Acceptance Criteria			Column
		Qualifier	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A	
Decachlorobiphenyl	79		30-150	A	
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B	
Decachlorobiphenyl	81		30-150	B	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN

Project Number: 1069022

Lab Number: L2271474

Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1727412-2 WG1727412-3									
Alpha-BHC	136		125		30-150	8		30	A
Lindane	129		118		30-150	9		30	A
Beta-BHC	126		105		30-150	18		30	A
Delta-BHC	140		133		30-150	5		30	A
Heptachlor	134		125		30-150	7		30	A
Aldrin	125		119		30-150	5		30	A
Heptachlor epoxide	97		89		30-150	9		30	A
Endosulfan I	124		114		30-150	8		30	A
trans-Chlordane	146		137		30-150	6		30	A
cis-Chlordane	131		119		30-150	10		30	A
4,4'-DDE	131		120		30-150	9		30	A
Dieldrin	137		130		30-150	5		30	A
Endrin	134		120		30-150	11		30	A
4,4'-DDD	138		132		30-150	4		30	A
Endosulfan II	126		118		30-150	7		30	A
4,4'-DDT	139		131		30-150	6		30	A
Endrin aldehyde	87		80		30-150	8		30	A
Methoxychlor	132		115		30-150	14		30	A
Endosulfan sulfate	98		96		30-150	2		30	A
Endrin ketone	122		115		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Pesticides by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1727412-2 WG1727412-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		90		30-150	A
Decachlorobiphenyl	109		99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		91		30-150	B
Decachlorobiphenyl	85		76		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN

Project Number: 1069022

Lab Number: L2271474

Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Pesticides by GC - Westborough Lab Associated sample(s): 13-16 Batch: WG1727615-2 WG1727615-3									
Alpha-BHC	98		102		30-150	4		30	A
Lindane	92		96		30-150	4		30	A
Beta-BHC	85		88		30-150	3		30	A
Delta-BHC	78		83		30-150	6		30	A
Heptachlor	96		100		30-150	4		30	A
Aldrin	90		93		30-150	3		30	A
Heptachlor epoxide	80		84		30-150	5		30	A
Endosulfan I	90		94		30-150	4		30	A
trans-Chlordane	103		107		30-150	4		30	A
cis-Chlordane	78		82		30-150	5		30	A
4,4'-DDE	93		98		30-150	5		30	A
Dieldrin	98		103		30-150	5		30	A
Endrin	94		98		30-150	4		30	A
4,4'-DDD	100		105		30-150	5		30	A
Endosulfan II	94		100		30-150	6		30	A
4,4'-DDT	96		101		30-150	5		30	A
Endrin aldehyde	66		72		30-150	9		30	A
Methoxychlor	88		92		30-150	4		30	A
Endosulfan sulfate	66		72		30-150	9		30	A
Endrin ketone	95		98		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Pesticides by GC - Westborough Lab Associated sample(s): 13-16 Batch: WG1727615-2 WG1727615-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		94		30-150	A
Decachlorobiphenyl	86		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		92		30-150	B
Decachlorobiphenyl	87		96		30-150	B

METALS



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1460		mg/kg	9.56	2.58	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.78	0.363	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Arsenic, Total	2.23		mg/kg	0.956	0.199	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Barium, Total	71.5		mg/kg	0.956	0.166	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.478	0.032	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.510	J	mg/kg	0.956	0.094	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Calcium, Total	31500		mg/kg	9.56	3.34	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Chromium, Total	8.43		mg/kg	0.956	0.092	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Cobalt, Total	1.11	J	mg/kg	1.91	0.159	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Copper, Total	4.34		mg/kg	0.956	0.247	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Iron, Total	4290		mg/kg	4.78	0.863	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Lead, Total	78.2		mg/kg	4.78	0.256	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Magnesium, Total	3080		mg/kg	9.56	1.47	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Manganese, Total	229		mg/kg	0.956	0.152	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Mercury, Total	0.356		mg/kg	0.083	0.054	1	12/21/22 22:47	12/22/22 16:54	EPA 7471B	1,7471B	DMB
Nickel, Total	1.78	J	mg/kg	2.39	0.231	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Potassium, Total	203	J	mg/kg	239	13.8	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.91	0.247	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.478	0.270	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Sodium, Total	136	J	mg/kg	191	3.01	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Thallium, Total	ND		mg/kg	1.91	0.301	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Vanadium, Total	14.5		mg/kg	0.956	0.194	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL
Zinc, Total	83.9		mg/kg	4.78	0.280	2	12/21/22 22:00	12/28/22 18:01	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-02	Date Collected:	12/19/22 10:05
Client ID:	SB1 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5400		mg/kg	8.82	2.38	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.41	0.335	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Arsenic, Total	7.16		mg/kg	0.882	0.183	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Barium, Total	94.6		mg/kg	0.882	0.153	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.309	J	mg/kg	0.441	0.029	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.097	J	mg/kg	0.882	0.086	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Calcium, Total	2730		mg/kg	8.82	3.09	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Chromium, Total	16.7		mg/kg	0.882	0.085	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Cobalt, Total	9.33		mg/kg	1.76	0.146	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Copper, Total	88.8		mg/kg	0.882	0.228	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Iron, Total	20300		mg/kg	4.41	0.796	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Lead, Total	245		mg/kg	4.41	0.236	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Magnesium, Total	1820		mg/kg	8.82	1.36	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Manganese, Total	436		mg/kg	0.882	0.140	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Mercury, Total	1.38		mg/kg	0.079	0.052	1	12/21/22 22:47	12/22/22 16:57	EPA 7471B	1,7471B	DMB
Nickel, Total	8.96		mg/kg	2.20	0.213	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Potassium, Total	612		mg/kg	220	12.7	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.76	0.228	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.441	0.250	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Sodium, Total	56.7	J	mg/kg	176	2.78	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Thallium, Total	0.557	J	mg/kg	1.76	0.278	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Vanadium, Total	19.3		mg/kg	0.882	0.179	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL
Zinc, Total	141		mg/kg	4.41	0.258	2	12/21/22 22:00	12/28/22 18:06	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-03	Date Collected:	12/19/22 10:10
Client ID:	SB2 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10300		mg/kg	10.4	2.82	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	5.23	0.397	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.94		mg/kg	1.04	0.218	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Barium, Total	159		mg/kg	1.04	0.182	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.471	J	mg/kg	0.523	0.035	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.446	J	mg/kg	1.04	0.102	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Calcium, Total	7430		mg/kg	10.4	3.66	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Chromium, Total	22.1		mg/kg	1.04	0.100	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Cobalt, Total	7.45		mg/kg	2.09	0.174	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Copper, Total	36.3		mg/kg	1.04	0.270	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Iron, Total	19600		mg/kg	5.23	0.944	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Lead, Total	308		mg/kg	5.23	0.280	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Magnesium, Total	3850		mg/kg	10.4	1.61	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Manganese, Total	330		mg/kg	1.04	0.166	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Mercury, Total	1.06		mg/kg	0.083	0.054	1	12/21/22 22:47	12/22/22 17:01	EPA 7471B	1,7471B	DMB
Nickel, Total	13.3		mg/kg	2.61	0.253	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Potassium, Total	1930		mg/kg	261	15.1	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Selenium, Total	0.294	J	mg/kg	2.09	0.270	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.523	0.296	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Sodium, Total	69.5	J	mg/kg	209	3.29	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Thallium, Total	0.482	J	mg/kg	2.09	0.329	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Vanadium, Total	31.5		mg/kg	1.04	0.212	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL
Zinc, Total	210		mg/kg	5.23	0.306	2	12/21/22 22:00	12/28/22 18:10	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-04	Date Collected:	12/19/22 10:20
Client ID:	SB2 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	25300		mg/kg	9.45	2.55	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.73	0.359	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Arsenic, Total	0.370	J	mg/kg	0.945	0.197	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Barium, Total	145		mg/kg	0.945	0.164	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Beryllium, Total	1.34		mg/kg	0.473	0.031	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.945	0.093	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Calcium, Total	646		mg/kg	9.45	3.31	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Chromium, Total	39.9		mg/kg	0.945	0.091	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Cobalt, Total	18.2		mg/kg	1.89	0.157	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Copper, Total	25.9		mg/kg	0.945	0.244	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Iron, Total	38400		mg/kg	4.73	0.854	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Lead, Total	13.3		mg/kg	4.73	0.253	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Magnesium, Total	13000		mg/kg	9.45	1.46	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Manganese, Total	1060		mg/kg	0.945	0.150	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.078	0.051	1	12/21/22 22:47	12/22/22 17:04	EPA 7471B	1,7471B	DMB
Nickel, Total	38.3		mg/kg	2.36	0.229	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Potassium, Total	12500		mg/kg	236	13.6	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.89	0.244	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.473	0.268	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Sodium, Total	233		mg/kg	189	2.98	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Thallium, Total	2.59		mg/kg	1.89	0.298	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Vanadium, Total	53.5		mg/kg	0.945	0.192	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL
Zinc, Total	114		mg/kg	4.73	0.277	2	12/21/22 22:00	12/28/22 18:15	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-05	Date Collected:	12/19/22 10:30
Client ID:	SB3 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Aluminum, Total	9950		mg/kg	9.31	2.51	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.65	0.354	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Arsenic, Total	12.0		mg/kg	0.931	0.194	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Barium, Total	143		mg/kg	0.931	0.162	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.292	J	mg/kg	0.465	0.031	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.929	J	mg/kg	0.931	0.091	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Calcium, Total	31800		mg/kg	9.31	3.26	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Chromium, Total	27.0		mg/kg	0.931	0.089	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Cobalt, Total	6.58		mg/kg	1.86	0.154	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Copper, Total	35.3		mg/kg	0.931	0.240	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Iron, Total	25700		mg/kg	4.65	0.840	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Lead, Total	381		mg/kg	4.65	0.249	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Magnesium, Total	6080		mg/kg	9.31	1.43	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Manganese, Total	251		mg/kg	0.931	0.148	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Mercury, Total	1.13		mg/kg	0.083	0.054	1	12/21/22 22:47	12/22/22 17:07	EPA 7471B	1,7471B	DMB
Nickel, Total	14.0		mg/kg	2.33	0.225	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Potassium, Total	1840		mg/kg	233	13.4	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Selenium, Total	0.674	J	mg/kg	1.86	0.240	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.465	0.263	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Sodium, Total	136	J	mg/kg	186	2.93	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Thallium, Total	0.612	J	mg/kg	1.86	0.293	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Vanadium, Total	33.7		mg/kg	0.931	0.189	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL
Zinc, Total	355		mg/kg	4.65	0.273	2	12/21/22 22:00	12/28/22 18:20	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-06	Date Collected:	12/19/22 10:45
Client ID:	SB3 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3130		mg/kg	8.72	2.35	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.36	0.331	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Arsenic, Total	17.2		mg/kg	0.872	0.181	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Barium, Total	51.3		mg/kg	0.872	0.152	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.243	J	mg/kg	0.436	0.029	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.126	J	mg/kg	0.872	0.085	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Calcium, Total	21400		mg/kg	8.72	3.05	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Chromium, Total	12.2		mg/kg	0.872	0.084	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Cobalt, Total	24.9		mg/kg	1.74	0.145	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Copper, Total	299		mg/kg	0.872	0.225	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Iron, Total	47100		mg/kg	4.36	0.787	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Lead, Total	83.2		mg/kg	4.36	0.234	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Magnesium, Total	1150		mg/kg	8.72	1.34	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Manganese, Total	366		mg/kg	0.872	0.139	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Mercury, Total	0.240		mg/kg	0.073	0.047	1	12/21/22 22:47	12/22/22 17:11	EPA 7471B	1,7471B	DMB
Nickel, Total	29.0		mg/kg	2.18	0.211	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Potassium, Total	381		mg/kg	218	12.6	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Selenium, Total	1.17	J	mg/kg	1.74	0.225	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.436	0.247	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Sodium, Total	203		mg/kg	174	2.75	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Thallium, Total	0.819	J	mg/kg	1.74	0.275	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Vanadium, Total	25.4		mg/kg	0.872	0.177	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL
Zinc, Total	69.3		mg/kg	4.36	0.255	2	12/21/22 22:00	12/28/22 18:25	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-07	Date Collected:	12/19/22 10:50
Client ID:	SB4 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8430		mg/kg	8.89	2.40	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.44	0.338	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.25		mg/kg	0.889	0.185	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Barium, Total	64.7		mg/kg	0.889	0.155	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.467		mg/kg	0.444	0.029	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.121	J	mg/kg	0.889	0.087	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Calcium, Total	1300		mg/kg	8.89	3.11	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Chromium, Total	22.2		mg/kg	0.889	0.085	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Cobalt, Total	10.5		mg/kg	1.78	0.148	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Copper, Total	21.7		mg/kg	0.889	0.229	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Iron, Total	18600		mg/kg	4.44	0.803	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Lead, Total	90.4		mg/kg	4.44	0.238	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Magnesium, Total	1920		mg/kg	8.89	1.37	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Manganese, Total	375		mg/kg	0.889	0.141	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Mercury, Total	0.158		mg/kg	0.079	0.052	1	12/21/22 22:47	12/22/22 17:14	EPA 7471B	1,7471B	DMB
Nickel, Total	10.0		mg/kg	2.22	0.215	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Potassium, Total	1610		mg/kg	222	12.8	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Selenium, Total	0.251	J	mg/kg	1.78	0.229	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.444	0.252	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Sodium, Total	43.3	J	mg/kg	178	2.80	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Thallium, Total	0.580	J	mg/kg	1.78	0.280	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Vanadium, Total	28.5		mg/kg	0.889	0.180	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL
Zinc, Total	97.7		mg/kg	4.44	0.260	2	12/21/22 22:00	12/28/22 18:30	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-08	Date Collected:	12/19/22 10:55
Client ID:	SB4 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5870		mg/kg	9.36	2.52	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.68	0.355	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Arsenic, Total	5.20		mg/kg	0.936	0.194	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Barium, Total	70.0		mg/kg	0.936	0.163	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.290	J	mg/kg	0.468	0.031	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.918	J	mg/kg	0.936	0.092	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Calcium, Total	1130		mg/kg	9.36	3.27	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Chromium, Total	12.0		mg/kg	0.936	0.090	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Cobalt, Total	8.64		mg/kg	1.87	0.155	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Copper, Total	18.0		mg/kg	0.936	0.241	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Iron, Total	16600		mg/kg	4.68	0.845	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Lead, Total	255		mg/kg	4.68	0.251	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Magnesium, Total	839		mg/kg	9.36	1.44	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Manganese, Total	445		mg/kg	0.936	0.149	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Mercury, Total	2.71		mg/kg	0.081	0.053	1	12/21/22 22:47	12/22/22 17:24	EPA 7471B	1,7471B	DMB
Nickel, Total	5.88		mg/kg	2.34	0.226	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Potassium, Total	582		mg/kg	234	13.5	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.87	0.241	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.468	0.265	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Sodium, Total	40.3	J	mg/kg	187	2.95	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Thallium, Total	0.540	J	mg/kg	1.87	0.295	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Vanadium, Total	18.4		mg/kg	0.936	0.190	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL
Zinc, Total	901		mg/kg	4.68	0.274	2	12/21/22 22:00	12/28/22 18:35	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-09	Date Collected:	12/19/22 11:05
Client ID:	SB5 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9390		mg/kg	9.18	2.48	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.59	0.349	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Arsenic, Total	7.71		mg/kg	0.918	0.191	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Barium, Total	56.5		mg/kg	0.918	0.160	2	12/21/22 22:00	12/28/22 21:07	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.653		mg/kg	0.459	0.030	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.109	J	mg/kg	0.918	0.090	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Calcium, Total	1790		mg/kg	9.18	3.21	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Chromium, Total	23.4		mg/kg	0.918	0.088	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Cobalt, Total	5.58		mg/kg	1.84	0.152	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Copper, Total	16.5		mg/kg	0.918	0.237	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Iron, Total	21600		mg/kg	4.59	0.829	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Lead, Total	37.0		mg/kg	4.59	0.246	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Magnesium, Total	2590		mg/kg	9.18	1.41	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Manganese, Total	227		mg/kg	0.918	0.146	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Mercury, Total	0.062	J	mg/kg	0.078	0.051	1	12/21/22 22:47	12/22/22 17:27	EPA 7471B	1,7471B	DMB
Nickel, Total	10.2		mg/kg	2.30	0.222	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Potassium, Total	913		mg/kg	230	13.2	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.84	0.237	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.459	0.260	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Sodium, Total	45.4	J	mg/kg	184	2.89	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Thallium, Total	0.354	J	mg/kg	1.84	0.289	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Vanadium, Total	29.0		mg/kg	0.918	0.186	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL
Zinc, Total	65.9		mg/kg	4.59	0.269	2	12/21/22 22:00	12/28/22 18:58	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-10	Date Collected:	12/19/22 11:10
Client ID:	SB5 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	24400		mg/kg	9.57	2.58	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.79	0.364	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Arsenic, Total	1.40		mg/kg	0.957	0.199	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Barium, Total	138		mg/kg	0.957	0.166	2	12/21/22 22:00	12/28/22 21:13	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.718		mg/kg	0.479	0.032	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.957	0.094	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Calcium, Total	3450		mg/kg	9.57	3.35	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Chromium, Total	33.5		mg/kg	0.957	0.092	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Cobalt, Total	15.5		mg/kg	1.91	0.159	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Copper, Total	41.8		mg/kg	0.957	0.247	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Iron, Total	31200		mg/kg	4.79	0.864	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Lead, Total	20.8		mg/kg	4.79	0.256	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Magnesium, Total	8770		mg/kg	9.57	1.47	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Manganese, Total	444		mg/kg	0.957	0.152	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.081	0.053	1	12/21/22 22:47	12/22/22 17:30	EPA 7471B	1,7471B	DMB
Nickel, Total	24.6		mg/kg	2.39	0.232	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Potassium, Total	8340		mg/kg	239	13.8	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.91	0.247	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.479	0.271	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Sodium, Total	210		mg/kg	191	3.02	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Thallium, Total	1.56	J	mg/kg	1.91	0.302	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Vanadium, Total	47.7		mg/kg	0.957	0.194	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL
Zinc, Total	107		mg/kg	4.79	0.280	2	12/21/22 22:00	12/28/22 19:02	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-11	Date Collected:	12/19/22 11:15
Client ID:	SB6 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5130		mg/kg	8.36	2.26	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.18	0.318	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Arsenic, Total	1.78		mg/kg	0.836	0.174	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Barium, Total	62.3		mg/kg	0.836	0.146	2	12/21/22 22:00	12/28/22 21:18	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.080	J	mg/kg	0.418	0.028	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.147	J	mg/kg	0.836	0.082	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Calcium, Total	41200		mg/kg	8.36	2.93	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Chromium, Total	11.4		mg/kg	0.836	0.080	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Cobalt, Total	3.96		mg/kg	1.67	0.139	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Copper, Total	15.0		mg/kg	0.836	0.216	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Iron, Total	10300		mg/kg	4.18	0.755	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Lead, Total	16.3		mg/kg	4.18	0.224	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Magnesium, Total	24100		mg/kg	8.36	1.29	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Manganese, Total	124		mg/kg	0.836	0.133	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.072	0.047	1	12/21/22 22:47	12/22/22 17:34	EPA 7471B	1,7471B	DMB
Nickel, Total	6.40		mg/kg	2.09	0.202	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Potassium, Total	1960		mg/kg	209	12.0	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.67	0.216	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.418	0.237	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Sodium, Total	61.6	J	mg/kg	167	2.63	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Thallium, Total	0.338	J	mg/kg	1.67	0.263	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Vanadium, Total	18.1		mg/kg	0.836	0.170	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL
Zinc, Total	76.8		mg/kg	4.18	0.245	2	12/21/22 22:00	12/28/22 19:08	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-12	Date Collected:	12/19/22 11:20
Client ID:	SB6 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5900		mg/kg	8.56	2.31	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.28	0.325	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.22		mg/kg	0.856	0.178	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Barium, Total	39.1		mg/kg	0.856	0.149	2	12/21/22 22:00	12/28/22 21:23	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.324	J	mg/kg	0.428	0.028	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.186	J	mg/kg	0.856	0.084	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Calcium, Total	5290		mg/kg	8.56	3.00	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Chromium, Total	13.8		mg/kg	0.856	0.082	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Cobalt, Total	8.20		mg/kg	1.71	0.142	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Copper, Total	48.0		mg/kg	0.856	0.221	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Iron, Total	18400		mg/kg	4.28	0.773	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Lead, Total	70.2		mg/kg	4.28	0.229	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Magnesium, Total	1370		mg/kg	8.56	1.32	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Manganese, Total	299		mg/kg	0.856	0.136	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Mercury, Total	0.609		mg/kg	0.076	0.050	1	12/21/22 22:47	12/22/22 17:37	EPA 7471B	1,7471B	DMB
Nickel, Total	9.70		mg/kg	2.14	0.207	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Potassium, Total	620		mg/kg	214	12.3	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.71	0.221	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.428	0.242	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Sodium, Total	40.0	J	mg/kg	171	2.70	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Thallium, Total	0.514	J	mg/kg	1.71	0.270	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Vanadium, Total	21.9		mg/kg	0.856	0.174	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL
Zinc, Total	302		mg/kg	4.28	0.251	2	12/21/22 22:00	12/28/22 19:13	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-13	Date Collected:	12/19/22 11:30
Client ID:	SB7 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9440		mg/kg	8.66	2.34	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	43.3	3.29	20	12/21/22 22:00	12/28/22 19:41	EPA 3050B	1,6010D	DHL
Arsenic, Total	17.8		mg/kg	0.866	0.180	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Barium, Total	184		mg/kg	0.866	0.151	2	12/21/22 22:00	12/28/22 21:28	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.314	J	mg/kg	0.433	0.029	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Cadmium, Total	1.87		mg/kg	0.866	0.085	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Calcium, Total	37900		mg/kg	8.66	3.03	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Chromium, Total	21.4		mg/kg	0.866	0.083	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Cobalt, Total	6.39		mg/kg	1.73	0.144	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Copper, Total	36.5		mg/kg	0.866	0.223	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Iron, Total	102000		mg/kg	43.3	7.82	20	12/21/22 22:00	12/28/22 19:41	EPA 3050B	1,6010D	DHL
Lead, Total	208		mg/kg	4.33	0.232	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Magnesium, Total	6460		mg/kg	8.66	1.33	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Manganese, Total	505		mg/kg	0.866	0.138	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Mercury, Total	0.260		mg/kg	0.077	0.050	1	12/21/22 22:47	12/22/22 17:40	EPA 7471B	1,7471B	DMB
Nickel, Total	23.2		mg/kg	2.16	0.209	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Potassium, Total	2080		mg/kg	216	12.5	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Selenium, Total	2.42		mg/kg	1.73	0.223	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.433	0.245	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Sodium, Total	201		mg/kg	173	2.73	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Thallium, Total	1.07	J	mg/kg	1.73	0.273	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Vanadium, Total	28.4		mg/kg	0.866	0.176	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL
Zinc, Total	693		mg/kg	4.33	0.254	2	12/21/22 22:00	12/28/22 19:17	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-14	Date Collected:	12/19/22 11:35
Client ID:	SB7 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12900		mg/kg	8.41	2.27	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.20	0.320	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.13		mg/kg	0.841	0.175	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Barium, Total	61.4		mg/kg	0.841	0.146	2	12/21/22 22:00	12/28/22 21:32	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.520		mg/kg	0.420	0.028	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.841	0.082	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Calcium, Total	747		mg/kg	8.41	2.94	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Chromium, Total	24.4		mg/kg	0.841	0.081	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Cobalt, Total	4.12		mg/kg	1.68	0.140	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Copper, Total	10.7		mg/kg	0.841	0.217	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Iron, Total	22900		mg/kg	4.20	0.759	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Lead, Total	27.8		mg/kg	4.20	0.225	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Magnesium, Total	1760		mg/kg	8.41	1.30	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Manganese, Total	157		mg/kg	0.841	0.134	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Mercury, Total	0.326		mg/kg	0.074	0.048	1	12/21/22 22:47	12/22/22 17:44	EPA 7471B	1,7471B	DMB
Nickel, Total	7.70		mg/kg	2.10	0.204	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Potassium, Total	662		mg/kg	210	12.1	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Selenium, Total	0.599	J	mg/kg	1.68	0.217	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.420	0.238	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Sodium, Total	34.5	J	mg/kg	168	2.65	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Thallium, Total	0.354	J	mg/kg	1.68	0.265	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Vanadium, Total	35.9		mg/kg	0.841	0.171	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL
Zinc, Total	24.1		mg/kg	4.20	0.246	2	12/21/22 22:00	12/28/22 19:22	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-15	Date Collected:	12/19/22 11:45
Client ID:	SB8 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4780		mg/kg	8.19	2.21	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Antimony, Total	4.55		mg/kg	4.10	0.311	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Arsenic, Total	3.62		mg/kg	0.819	0.170	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Barium, Total	48.8		mg/kg	0.819	0.142	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.351	J	mg/kg	0.410	0.027	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.819	0.080	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Calcium, Total	50400		mg/kg	8.19	2.87	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Chromium, Total	14.0		mg/kg	0.819	0.079	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Cobalt, Total	4.45		mg/kg	1.64	0.136	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Copper, Total	40.4		mg/kg	0.819	0.211	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Iron, Total	7570		mg/kg	4.10	0.740	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Lead, Total	31.6		mg/kg	4.10	0.220	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Magnesium, Total	3230		mg/kg	8.19	1.26	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Manganese, Total	101		mg/kg	0.819	0.130	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.072	0.047	1	12/21/22 15:08	12/21/22 19:49	EPA 7471B	1,7471B	DMB
Nickel, Total	7.54		mg/kg	2.05	0.198	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Potassium, Total	311		mg/kg	205	11.8	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.64	0.211	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.410	0.232	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Sodium, Total	82.3	J	mg/kg	164	2.58	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Thallium, Total	ND		mg/kg	1.64	0.258	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Vanadium, Total	8.20		mg/kg	0.819	0.166	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL
Zinc, Total	116		mg/kg	4.10	0.240	2	12/21/22 14:57	12/21/22 21:09	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-16	Date Collected:	12/19/22 11:55
Client ID:	SB8 (2-15)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9380		mg/kg	9.54	2.58	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Antimony, Total	1.62	J	mg/kg	4.77	0.362	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.08		mg/kg	0.954	0.198	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Barium, Total	58.5		mg/kg	0.954	0.166	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.611		mg/kg	0.477	0.032	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.954	0.094	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Calcium, Total	8020		mg/kg	9.54	3.34	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Chromium, Total	22.5		mg/kg	0.954	0.092	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Cobalt, Total	9.12		mg/kg	1.91	0.158	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Copper, Total	15.6		mg/kg	0.954	0.246	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Iron, Total	18400		mg/kg	4.77	0.861	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Lead, Total	69.4		mg/kg	4.77	0.256	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Magnesium, Total	5270		mg/kg	9.54	1.47	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Manganese, Total	398		mg/kg	0.954	0.152	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Mercury, Total	0.241		mg/kg	0.080	0.052	1	12/21/22 15:08	12/21/22 19:53	EPA 7471B	1,7471B	DMB
Nickel, Total	8.03		mg/kg	2.38	0.231	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Potassium, Total	1200		mg/kg	238	13.7	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.91	0.246	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.477	0.270	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Sodium, Total	43.0	J	mg/kg	191	3.00	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Thallium, Total	ND		mg/kg	1.91	0.300	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Vanadium, Total	29.6		mg/kg	0.954	0.194	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL
Zinc, Total	52.1		mg/kg	4.77	0.279	2	12/21/22 14:57	12/21/22 21:13	EPA 3050B	1,6010D	DHL



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-14 Batch: WG1725998-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Antimony, Total	ND	mg/kg	2.00	0.152	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Barium, Total	ND	mg/kg	0.400	0.070	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Calcium, Total	ND	mg/kg	4.00	1.40	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Chromium, Total	ND	mg/kg	0.400	0.038	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Copper, Total	ND	mg/kg	0.400	0.103	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Iron, Total	ND	mg/kg	2.00	0.361	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Lead, Total	ND	mg/kg	2.00	0.107	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Manganese, Total	0.361	J	mg/kg	0.400	0.064	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC
Nickel, Total	ND	mg/kg	1.00	0.097	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Potassium, Total	12.8	J	mg/kg	100	5.76	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC
Selenium, Total	ND	mg/kg	0.800	0.103	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Silver, Total	ND	mg/kg	0.200	0.113	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Sodium, Total	3.25	J	mg/kg	80.0	1.26	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC
Thallium, Total	ND	mg/kg	0.800	0.126	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	
Zinc, Total	ND	mg/kg	2.00	0.117	1	12/21/22 22:00	12/28/22 14:43	1,6010D	MRC	

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-14 Batch: WG1726001-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	12/21/22 22:47	12/22/22 16:18	1,7471B	DMB



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 15-16 Batch: WG1726072-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Antimony, Total	ND	mg/kg	2.00	0.152	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Barium, Total	ND	mg/kg	0.400	0.070	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Calcium, Total	ND	mg/kg	4.00	1.40	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Chromium, Total	ND	mg/kg	0.400	0.038	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Copper, Total	ND	mg/kg	0.400	0.103	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Iron, Total	ND	mg/kg	2.00	0.361	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Lead, Total	ND	mg/kg	2.00	0.107	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Manganese, Total	ND	mg/kg	0.400	0.064	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Nickel, Total	ND	mg/kg	1.00	0.097	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Potassium, Total	ND	mg/kg	100	5.76	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Selenium, Total	ND	mg/kg	0.800	0.103	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Silver, Total	ND	mg/kg	0.200	0.113	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Sodium, Total	1.34	J	mg/kg	80.0	1.26	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL
Thallium, Total	ND	mg/kg	0.800	0.126	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	
Zinc, Total	ND	mg/kg	2.00	0.117	1	12/21/22 14:57	12/21/22 20:05	1,6010D	DHL	

Prep Information

Digestion Method: EPA 3050B



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 15-16 Batch: WG1726075-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	12/21/22 15:08	12/21/22 19:21	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-14 Batch: WG1725998-2 SRM Lot Number: D116-540								
Aluminum, Total	74	-	-	-	45-155	-	-	-
Antimony, Total	132	-	-	-	2-205	-	-	-
Arsenic, Total	112	-	-	-	82-119	-	-	-
Barium, Total	94	-	-	-	82-118	-	-	-
Beryllium, Total	112	-	-	-	82-118	-	-	-
Cadmium, Total	112	-	-	-	82-118	-	-	-
Calcium, Total	96	-	-	-	81-119	-	-	-
Chromium, Total	107	-	-	-	81-118	-	-	-
Cobalt, Total	109	-	-	-	83-117	-	-	-
Copper, Total	102	-	-	-	83-117	-	-	-
Iron, Total	94	-	-	-	58-142	-	-	-
Lead, Total	104	-	-	-	83-117	-	-	-
Magnesium, Total	89	-	-	-	75-125	-	-	-
Manganese, Total	101	-	-	-	82-118	-	-	-
Nickel, Total	112	-	-	-	82-118	-	-	-
Potassium, Total	86	-	-	-	68-131	-	-	-
Selenium, Total	113	-	-	-	78-122	-	-	-
Silver, Total	106	-	-	-	79-121	-	-	-
Sodium, Total	96	-	-	-	71-130	-	-	-
Thallium, Total	110	-	-	-	80-120	-	-	-
Vanadium, Total	104	-	-	-	78-122	-	-	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-14 Batch: WG1725998-2 SRM Lot Number: D116-540					
Zinc, Total	109	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-14 Batch: WG1726001-2 SRM Lot Number: D116-540					
Mercury, Total	96	-	58-142	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 15-16 Batch: WG1726072-2 SRM Lot Number: D116-540					
Aluminum, Total	66	-	45-155	-	
Antimony, Total	187	-	2-205	-	
Arsenic, Total	104	-	82-119	-	
Barium, Total	88	-	82-118	-	
Beryllium, Total	83	-	82-118	-	
Cadmium, Total	95	-	82-118	-	
Calcium, Total	95	-	81-119	-	
Chromium, Total	92	-	81-118	-	
Cobalt, Total	93	-	83-117	-	
Copper, Total	98	-	83-117	-	
Iron, Total	91	-	58-142	-	
Lead, Total	99	-	83-117	-	
Magnesium, Total	86	-	75-125	-	
Manganese, Total	99	-	82-118	-	
Nickel, Total	96	-	82-118	-	
Potassium, Total	73	-	68-131	-	
Selenium, Total	104	-	78-122	-	
Silver, Total	98	-	79-121	-	
Sodium, Total	79	-	71-130	-	
Thallium, Total	99	-	80-120	-	
Vanadium, Total	95	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 15-16 Batch: WG1726072-2 SRM Lot Number: D116-540					
Zinc, Total	99	-	80-120	-	-
Total Metals - Mansfield Lab Associated sample(s): 15-16 Batch: WG1726075-2 SRM Lot Number: D116-540					
Mercury, Total	82	-	58-142	-	-

Matrix Spike Analysis
Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG1725998-3 QC Sample: L2271024-44 Client ID: MS Sample												
Aluminum, Total	16100	186	17900	970	Q	-	-	-	75-125	-	-	20
Antimony, Total	ND	46.4	31.2	67	Q	-	-	-	75-125	-	-	20
Arsenic, Total	11.7	11.1	21.9	92		-	-	-	75-125	-	-	20
Barium, Total	60.4	186	212	82		-	-	-	75-125	-	-	20
Beryllium, Total	0.633	4.64	4.34	80		-	-	-	75-125	-	-	20
Cadmium, Total	ND	4.92	3.65	74	Q	-	-	-	75-125	-	-	20
Calcium, Total	919	928	1660	80		-	-	-	75-125	-	-	20
Chromium, Total	30.8	18.6	45.4	79		-	-	-	75-125	-	-	20
Cobalt, Total	11.7	46.4	44.3	70	Q	-	-	-	75-125	-	-	20
Copper, Total	18.7	23.2	36.7	78		-	-	-	75-125	-	-	20
Iron, Total	21400	92.8	23000	1720	Q	-	-	-	75-125	-	-	20
Lead, Total	10.6	49.2	46.1	72	Q	-	-	-	75-125	-	-	20
Magnesium, Total	6360	928	7120	82		-	-	-	75-125	-	-	20
Manganese, Total	441	46.4	416	0	Q	-	-	-	75-125	-	-	20
Nickel, Total	22.8	46.4	57.9	76		-	-	-	75-125	-	-	20
Potassium, Total	3520	928	4760	134	Q	-	-	-	75-125	-	-	20
Selenium, Total	ND	11.1	9.15	82		-	-	-	75-125	-	-	20
Silver, Total	ND	27.8	22.7	82		-	-	-	75-125	-	-	20
Sodium, Total	157	928	932	84		-	-	-	75-125	-	-	20
Thallium, Total	0.540J	11.1	8.50	76		-	-	-	75-125	-	-	20
Vanadium, Total	38.0	46.4	75.7	81		-	-	-	75-125	-	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG1725998-3 QC Sample: L2271024-44 Client ID: MS Sample									
Zinc, Total	59.1	46.4	100	88	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG1726001-3 QC Sample: L2271331-01 Client ID: MS Sample									
Mercury, Total	0.065J	1.78	1.81	102	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits	
Total Metals - Mansfield Lab Associated sample(s): 15-16 QC Batch ID: WG1726072-3 QC Sample: L2271544-01 Client ID: MS Sample										
Aluminum, Total	10100	207	10500	193	Q	-	-	75-125	-	20
Antimony, Total	1.06J	51.7	51.4	99		-	-	75-125	-	20
Arsenic, Total	13.4	12.4	24.6	90		-	-	75-125	-	20
Barium, Total	76.1	207	274	96		-	-	75-125	-	20
Beryllium, Total	1.15	5.17	6.02	94		-	-	75-125	-	20
Cadmium, Total	ND	5.48	4.92	90		-	-	75-125	-	20
Calcium, Total	4950	1030	54900	4830	Q	-	-	75-125	-	20
Chromium, Total	10.3	20.7	29.1	91		-	-	75-125	-	20
Cobalt, Total	9.65	51.7	54.5	87		-	-	75-125	-	20
Copper, Total	15.3	25.8	38.8	91		-	-	75-125	-	20
Iron, Total	14000	103	14500	484	Q	-	-	75-125	-	20
Lead, Total	12.1	54.8	61.1	89		-	-	75-125	-	20
Magnesium, Total	2850	1030	4480	158	Q	-	-	75-125	-	20
Manganese, Total	142	51.7	421	540	Q	-	-	75-125	-	20
Nickel, Total	25.1	51.7	69.5	86		-	-	75-125	-	20
Potassium, Total	593	1030	1700	107		-	-	75-125	-	20
Selenium, Total	0.580J	12.4	13.3	107		-	-	75-125	-	20
Silver, Total	ND	31	30.5	98		-	-	75-125	-	20
Sodium, Total	444	1030	1480	100		-	-	75-125	-	20
Thallium, Total	ND	12.4	10.2	82		-	-	75-125	-	20
Vanadium, Total	16.6	51.7	63.9	91		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 15-16 QC Batch ID: WG1726072-3 QC Sample: L2271544-01 Client ID: MS Sample									
Zinc, Total	94.6	51.7	135	78	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 15-16 QC Batch ID: WG1726075-3 QC Sample: L2270274-23 Client ID: MS Sample									
Mercury, Total	0.056J	1.66	1.67	101	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG1725998-4 QC Sample: L2271024-44 Client ID: DUP Sample						
Lead, Total	10.6	10.8	mg/kg	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG1726001-4 QC Sample: L2271331-01 Client ID: DUP Sample						
Mercury, Total	0.065J	0.066J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 15-16 QC Batch ID: WG1726072-4 QC Sample: L2271544-01 Client ID: DUP Sample					
Aluminum, Total	10100	11200	mg/kg	10	20
Antimony, Total	1.06J	1.50J	mg/kg	NC	20
Arsenic, Total	13.4	12.7	mg/kg	5	20
Barium, Total	76.1	73.4	mg/kg	4	20
Beryllium, Total	1.15	1.56	mg/kg	30	Q
Cadmium, Total	ND	0.138J	mg/kg	NC	20
Calcium, Total	4950	4700	mg/kg	5	20
Chromium, Total	10.3	12.1	mg/kg	16	20
Cobalt, Total	9.65	10.9	mg/kg	12	20
Copper, Total	15.3	14.6	mg/kg	5	20
Iron, Total	14000	14900	mg/kg	6	20
Lead, Total	12.1	13.1	mg/kg	8	20
Magnesium, Total	2850	3730	mg/kg	27	Q
Manganese, Total	142	134	mg/kg	6	20
Nickel, Total	25.1	27.8	mg/kg	10	20
Potassium, Total	593	723	mg/kg	20	20
Selenium, Total	0.580J	0.721J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	444	431	mg/kg	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 15-16 QC Batch ID: WG1726072-4 QC Sample: L2271544-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	16.6	19.0	mg/kg	13	20
Zinc, Total	94.6	132	mg/kg	33	Q 20
Total Metals - Mansfield Lab Associated sample(s): 15-16 QC Batch ID: WG1726075-4 QC Sample: L2270274-23 Client ID: DUP Sample					
Mercury, Total	0.056J	0.071J	mg/kg	NC	20

INORGANICS & MISCELLANEOUS



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID:	L2271474-01	Date Collected:	12/19/22 10:00
Client ID:	SB1 (0-2)	Date Received:	12/20/22
Sample Location:	PHILLY, PA	Field Prep:	Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-02
Client ID: SB1 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:05
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-03
Client ID: SB2 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:10
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.1	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-04
Client ID: SB2 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:20
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-05
Client ID: SB3 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:30
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-06
Client ID: SB3 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:45
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-07
Client ID: SB4 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:50
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-08
Client ID: SB4 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 10:55
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-09
Client ID: SB5 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:05
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-10
Client ID: SB5 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:10
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-11 Date Collected: 12/19/22 11:15
Client ID: SB6 (0-2) Date Received: 12/20/22
Sample Location: PHILLY, PA Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.3	%	0.100	NA	1	-	12/21/22 11:35	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-12
Client ID: SB6 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:20
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0	%	0.100	NA	1	-	12/21/22 11:47	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-13
Client ID: SB7 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:30
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6	%	0.100	NA	1	-	12/21/22 11:47	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-14
Client ID: SB7 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:35
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4	%	0.100	NA	1	-	12/21/22 11:47	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-15
Client ID: SB8 (0-2)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:45
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9	%	0.100	NA	1	-	12/21/22 11:47	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

SAMPLE RESULTS

Lab ID: L2271474-16
Client ID: SB8 (2-15)
Sample Location: PHILLY, PA

Date Collected: 12/19/22 11:55
Date Received: 12/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3	%	0.100	NA	1	-	12/21/22 11:47	121,2540G	RI	

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2271474
Report Date: 01/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1726009-1 QC Sample: L2271583-21 Client ID: DUP Sample						
Solids, Total	84.2	85.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 12-16 QC Batch ID: WG1726010-1 QC Sample: L2271594-01 Client ID: DUP Sample						
Solids, Total	84.4	85.4	%	1		20

Project Name: 38TH & BROWN
Project Number: 1069022

Serial_No:01052316:38
Lab Number: L2271474
Report Date: 01/05/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271474-01A	Vial MeOH preserved	C	NA		4.3	Y	Absent		PA-8260HLW(14)
L2271474-01B	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-01C	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-01D	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2271474-01E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2271474-01F	Glass 250ml/8oz unpreserved	C	NA		4.3	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-02A	Vial MeOH preserved	C	NA		4.3	Y	Absent		PA-8260HLW(14)
L2271474-02B	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-02C	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-02D	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2271474-02E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2271474-02F	Glass 250ml/8oz unpreserved	C	NA		4.3	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-03A	Vial MeOH preserved	C	NA		4.3	Y	Absent		PA-8260HLW(14)
L2271474-03B	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-03C	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271474-03D	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2271474-03E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2271474-03F	Glass 250ml/8oz unpreserved	C	NA		4.3	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-04A	Vial MeOH preserved	C	NA		4.3	Y	Absent		PA-8260HLW(14)
L2271474-04B	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-04C	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-04D	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2271474-04E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2271474-04F	Glass 250ml/8oz unpreserved	C	NA		4.3	Y	Absent		PA-8082(365),PA-8270SIM(14),PA-8081(14),PA-8270(14)
L2271474-05A	Vial MeOH preserved	C	NA		4.3	Y	Absent		PA-8260HLW(14)
L2271474-05B	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-05C	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-05D	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)
L2271474-05E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2271474-05F	Glass 250ml/8oz unpreserved	C	NA		4.3	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-06A	Vial MeOH preserved	C	NA		4.3	Y	Absent		PA-8260HLW(14)
L2271474-06B	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-06C	Vial water preserved	C	NA		4.3	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-06D	Plastic 2oz unpreserved for TS	C	NA		4.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271474-06E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2271474-06F	Glass 250ml/8oz unpreserved	C	NA		4.3	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-07A	Vial MeOH preserved	B	NA		3.2	Y	Absent		PA-8260HLW(14)
L2271474-07B	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-07C	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-07D	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L2271474-07E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2271474-07F	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-08A	Vial MeOH preserved	B	NA		3.2	Y	Absent		PA-8260HLW(14)
L2271474-08B	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-08C	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-08D	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L2271474-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2271474-08F	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		PA-8082(365),PA-8270SIM(14),PA-8081(14),PA-8270(14)
L2271474-09A	Vial MeOH preserved	B	NA		3.2	Y	Absent		PA-8260HLW(14)
L2271474-09B	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-09C	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-09D	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271474-09E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2271474-09F	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-10A	Vial MeOH preserved	B	NA		3.2	Y	Absent		PA-8260HLW(14)
L2271474-10B	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-10C	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-10D	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L2271474-10E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2271474-10F	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-11A	Vial MeOH preserved	B	NA		3.2	Y	Absent		PA-8260HLW(14)
L2271474-11B	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-11C	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-11D	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L2271474-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2271474-11F	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		PA-8082(365),PA-8270SIM(14),PA-8081(14),PA-8270(14)
L2271474-12A	Vial MeOH preserved	B	NA		3.2	Y	Absent		PA-8260HLW(14)
L2271474-12B	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-12C	Vial water preserved	B	NA		3.2	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-12D	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271474-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2271474-12F	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		PA-8082(365),PA-8270SIM(14),PA-8081(14),PA-8270(14)
L2271474-13A	Vial MeOH preserved	A	NA		4.6	Y	Absent		PA-8260HLW(14)
L2271474-13B	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-13C	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-13D	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L2271474-13E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2271474-13F	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PA-8082(365),PA-8270SIM(14),PA-8081(14),PA-8270(14)
L2271474-14A	Vial MeOH preserved	A	NA		4.6	Y	Absent		PA-8260HLW(14)
L2271474-14B	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-14C	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-14D	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L2271474-14E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2271474-14F	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)
L2271474-15A	Vial MeOH preserved	A	NA		4.6	Y	Absent		PA-8260HLW(14)
L2271474-15B	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-15C	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-15D	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271474-15E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2271474-15F	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PA-8082(365),PA-8270SIM(14),PA-8081(14),PA-8270(14)
L2271474-16A	Vial MeOH preserved	A	NA		4.6	Y	Absent		PA-8260HLW(14)
L2271474-16B	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-16C	Vial water preserved	A	NA		4.6	Y	Absent	21-DEC-22 07:15	PA-8260HLW(14)
L2271474-16D	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		TS(7)
L2271474-16E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2271474-16F	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		PA-8082(365),PA-8081(14),PA-8270SIM(14),PA-8270(14)

*Values in parentheses indicate holding time in days

Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: 38TH & BROWN
Project Number: 1069022

Lab Number: L2271474
Report Date: 01/05/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C**, **SM4500CN-CE**, EPA 180.1, **SM2130B**, **SM4500CI-D**, **SM2320B**, **SM2540C**, **SM4500H-B**, **SM4500NO2-B**

EPA 332: Perchlorate; **EPA 524.2**: THMs and VOCs; **EPA 504.1**: EDB, DBCP.

Microbiology: **SM9215B**; **SM9223-P/A**, **SM9223B-Colilert-QT**, **SM9222D**.

Non-Potable Water

SM4500H,B, **EPA 120.1**, **SM2510B**, **SM2540C**, **SM2320B**, **SM4500CL-E**, **SM4500F-BC**, **SM4500NH3-BH**: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, **EPA 351.1**, **SM4500NO3-F**, **EPA 353.2**: Nitrate-N, **SM4500P-E**, **SM4500P-B**, **E**, **SM4500SO4-E**, **SM5220D**, **EPA 410.4**, **SM5210B**, **SM5310C**, **SM4500CL-D**, **EPA 1664**, **EPA 420.1**, **SM4500-CN-CE**, **SM2540D**, **EPA 300**: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: **SM9223B-Colilert-QT**; **Enterolert-QT**, **SM9221E**, **EPA 1600**, **EPA 1603**, **SM9222D**.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8**: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522**, **EPA 537.1**.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 2

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: BATTAGNU
Address: 6 GARFIELD WAY
NEWARK DE 19711
Phone: 302 737-3376

Fax:

Email: kevin.burns@Battagnu.com

 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: 38th & Brown Phase II

Project Location: Philly, PA

Project #: 1069022

Project Manager: K. Burns

ALPHA Quote #: 408305

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved)

Date Due:

Time:

Date Rec'd in Lab: 12/20/22

ALPHA Job #: L2271474

Billing Information

 Same as Client Info

PO #:

Report Information - Data Deliverables

 FAX EMAIL ADEEx Add'l Deliverables

Regulatory Requirements/Report Limits

State / Fed Program

PA

Criteria

ACT 2

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	SAMPLE HANDLING						TOTAL # BOTTLES	
		Date	Time			ANALYSIS	PA	EE	E270	8882	Metals	PCP	
71474-01	SB1(0-2)	12/19/22	10:00	S	SH	1	1	1	3				
02	SB1(2-15)		10:05	S	SH	1	1	1	3				
03	SB2(0-2)		10:10	S	SH	1	1	1	3				
04	SB2(2-15)		10:20	S	SH	1	1	1	3				
05	SB3(0-2)		10:30	S	SH	1	1	1	3				
06	SB3(2-15)		10:45	S	SH	1	1	1	3				
07	SB4(0-2)		10:50	S	SH	1	1	1	3				
08	SB4(2-15)		10:55	S	SH	1	1	1	3				
09	SB5(0-2)		11:05	S	SH	1	1	1	3				
10	SB5(2-15)		11:10	S	SH	1	1	1	3				

Container Type: EAP

Preservative:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

GEAN
12/21/22
0200

Relinquished By:	Date/Time	Received By:	Date/Time
K. Burns D. Robinson, AAL 12/20/22 0200	12/20/22 10:22	D. Robinson, AAL 12/20/22 10:22	12/20/22 11:30



CHAIN OF CUSTODY

PAGE 2 OF 2

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: BATTAGEN
Address: 6 GARFIELD WAY
NEWARK DE 17111
Phone: 302 737 3376

Fax:

Email: Kevin.Burns@BATTAGEN.COM

 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: 3812 & Brown

Project Location: Philly, PA

Project #: 1069072

Project Manager: E. Burns

ALPHA Quote #: 408305

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved)

Date Due:

Time:

Date Rec'd in Lab:

12/20/22

ALPHA Job #: L2271474

Report Information - Data Deliverables

 FAX EMAIL ADEEx Add'l Deliverables

Billing Information

 Same as Client Info

PO #:

Regulatory Requirements/Report Limits

State / Fed Program

PA

Criteria

ACT 2

SAMPLE HANDLING

Filtration _____

- Done
- Not needed
- Lab to do
- Preservation
- Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS	S	1/18/22	1/19/22	1/20/22	1/21/22	1/22/22	1/23/22	1/24/22	1/25/22	1/26/22	1/27/22	1/28/22	1/29/22	1/30/22	1/31/22				
		Date	Time																						
71474-11	SRG (0-2)	12/19	11:15	S	SH	1	1	1	3																
-12	SRG (2-15)		11:20	S	SH	1	1	1	3																
-13	SB7 (0-2)		11:30	S	SH	1	1	1	3																
-14	SB7 (2-15)		11:35	S	SH	1	1	1	3																
-15	SB8 (0-2)		11:45	S	SH	1	1	1	3																
-16	SB8 (2-15)		11:55	S	SA	1	1	1	3																
				S	SH																				
				S	SH																				

Container Type: APP

Preservative

Relinquished By: D. Burns

Date/Time: 12/20/22 10:30

Received By: D. Burns

Date/Time: 12/20/22 11:30

Sear
12/21/22
0200

D. Burns AAL

12/20/22 10:30

D. Burns

12/20/22 11:30

12/21/22 0200

D. Burns AAL

12/20/22 10:30

D. Burns

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***Appendix E – PADEP’s Background Demonstration and
Equivalent Site Evaluation for Naturally Occurring Vanadium
Guidance***

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Waste Management

DOCUMENT NUMBER: 258-2182-774

TITLE: Utilizing Published Data in Performing a Background Demonstration and Equivalent Site Evaluation for Naturally Occurring Vanadium

EFFECTIVE DATE: February 26, 2022

AUTHORITY: The Solid Waste Management Act (35 P.S. §§ 6018.101 *et seq.*) (SWMA); The Clean Streams Law (35 P.S. §§ 691.1 *et seq.*); Section 1917-A of the Administrative Code (71 P.S. § 510-17); and The Land Recycling and Environmental Remediation Standards Act (35 P.S. §§ 6026.101 *et seq.*)

POLICY: A person is not required to obtain a permit under SWMA if the person can demonstrate that the material qualifies as clean fill in accordance with the municipal and residual waste regulations, 25 Pa. Code § 271.101(b)(3) and § 287.101(b)(6). DEP's Management of Fill Policy, Document No. 258-2182-773 (MoFP), provides procedures for determining whether fill¹ is "clean fill," as defined in the municipal and residual waste regulations at 25 Pa. Code § 271.1 and § 287.1, respectively, or "regulated fill," as defined in the MoFP.

Section G of Appendix A of DEP's MoFP provides a mechanism and procedure for demonstrating that the concentration of a regulated substance¹ that is present at a site but not related to the release¹ of regulated substances from a specific point source or activity at the site. For fill that is not otherwise affected by a release of vanadium, the applicable Representative Background Concentration (RBC) for Vanadium may be utilized in lieu of performing a site-specific vanadium Background Demonstration, as the process is described in Section G of Appendix A in the MoFP, for fill originating in Pennsylvania, New York or New Jersey. Likewise, the RBC applicable to soil in Pennsylvania may be utilized in lieu of performing a site-specific Equivalent Site Evaluation, as the process is described in Section G of Appendix A in the MoFP. RBCs applicable to fill originating in other neighboring states may be generated via the method described herein.

PURPOSE: This guidance provides DEP's procedures for utilizing a published data set to statistically determine statewide RBCs for Vanadium as an alternative to collection and analysis of background¹ samples representative of the donor site¹ (for a Background Demonstration) and/or the receiving site¹ (for an Equivalent Site Evaluation), as those procedures are described in Section G of Appendix A of the MoFP.

¹ As the term is defined in the DEP's Management of Fill Policy, Document No. 258-2182-773.

APPLICABILITY:	This guidance applies to fill, not affected by a release involving vanadium, that is found through analysis to contain vanadium at a concentration exceeding the current Clean Fill Concentration Limits ¹ (CFCL) of 15 mg/kg for Vanadium. It may be utilized to qualify the fill as clean fill as an alternative to Performing a Background Demonstration and Equivalent Site Evaluation as provided in Appendix A, Section G of the Management of Fill Policy, 258-2182-773, effective January 16, 2021. This guidance functions as a companion document to the MoFP, and the terms already defined in the MoFP are incorporated here by reference.
DISCLAIMER:	The policies and procedures outlined in this guidance are intended to supplement existing requirements. Nothing in the policies or procedures shall affect regulatory requirements.
	The policies and procedures herein are not an adjudication or a regulation. There is no intent on the part of the DEP to give this guidance that weight or deference. This document establishes the framework, within which DEP will exercise its administrative discretion in the future. DEP reserves the discretion to deviate from this policy statement if circumstances warrant.

PAGE LENGTH: 5 pages

BACKGROUND

This guidance functions as a companion document to the Management of Fill Policy (MoFP), and the terms already defined in the MoFP are incorporated here by reference.

Vanadium is the fifth most abundant transition metal in the earth's crust. The average vanadium concentration in the earth's crust is approximately 130 mg/kg,² making vanadium commonly present in material being managed as fill at concentrations exceeding the Pennsylvania's Clean Fill Concentration Limits¹ (CFCL) of 15 mg/kg currently in effect for vanadium. (Please see Appendix A of 25 Pa. Code Chapter 250 (relating to administration of land recycling program)). As stated in the MoFP, except for historic fill¹, analytical testing of the fill is not necessary unless environmental due diligence¹ indicates that the fill may have been affected by a release of a regulated substance. If due diligence shows evidence that the fill may have been affected by a release, analysis should be carried out for regulated substances that are suspected to be present due to a release or based upon historic use of the donor site.

Fill not affected by a release involving vanadium, that is found through analysis to contain vanadium at a concentration exceeding the current CFCL of 15 mg/kg may still qualify as clean fill by performing a Background Demonstration and Equivalent Site Evaluation as provided in Appendix A, Section G of the MoFP.

Generally, only naturally occurring metals, lead, and some ubiquitous organics, such as polynuclear aromatic hydrocarbons (PAHs), from widespread atmospheric deposition, are eligible for a Background Demonstration. When data or other information indicates that a regulated substance has migrated onto the donor site from the release of a regulated substance at another site, the regulated substance is not due to background¹ of that substance at the donor site. Pathways for the migration of a regulated substance due to an offsite release include surface runoff from specific sources (such as runoff from parking lots and storage facilities where spills have occurred); spills at railroad facilities and in railroad rights-of-way; and air deposition of regulated substances from specific sources.

STATEWIDE BACKGROUND VANADIUM CONCENTRATIONS ANALYSIS

As an alternative to collection and analysis of background¹ samples representative of the donor site (for a Background Demonstration) and/or the receiving site (for an Equivalent Site Evaluation), previously collected background¹ data published by an accredited source with appropriate peer review may be utilized to establish an Representative Background Concentration (RBC) for a site, provided the information is sufficiently focused and contains the level of detail on the area used to determine background¹ necessary to legitimately compare it to the donor site and/or receiving site. The description of the sampling and analysis performed should be detailed enough to provide statistical validity.

Upper limits, such as a 95% upper tolerance limit with 95% coverage (UTL95-95), are used to estimate upper threshold values. The UTL95-95 represents a 95% upper confidence limit for the 95th percentile. When applied to a background data set, the upper threshold value is referred to as a background threshold value (BTV). It is expected that observations coming from the background population will lie below that BTV estimate with a specified confidence coefficient (CC). BTVs should be estimated based upon an "established" data set representing the background population under consideration.

² Met. Ions Life Sci. 13 (2013) 139–169.

Based on a review of available statistical analysis tools, DEP chose to utilize [ProUCL5.1](#) for determining BTVs. The U.S. Environmental Protection Agency (EPA) funded and managed the research and methods incorporated in the ProUCL software and Technical Guide. The software was peer reviewed by the EPA and approved for publication. All versions of the software, including ProUCL5.1, have been developed by Lockheed Martin, IS&GS - CIVIL under contract with EPA.

ProUCL5.1 simultaneously computes decision statistics, such as UTL95-95, using several parametric and nonparametric methods covering a wide range of data variability, distribution, skewness, and sample size, which allows environmental professionals to make informed decisions quickly. Methods incorporated in ProUCL5.1 have been tested and verified extensively by the developers, researchers, scientists, and users. The results obtained by using ProUCL5.1 provides results in agreement with those obtained by using other software packages including Minitab, SAS®, and programs written in R Script. The ProUCL Version 5.1.002 User Guide and ProUCL Version 5.1.002 Technical Guide provide extensive detail pertaining to the statistical methodology applied by ProUCL5.1.

A data set from a study of surface soil completed by the United States Geological Survey (USGS) titled “Geochemical and Mineralogical Data for Soils of the Conterminous United States” ([Data Series 801](#)) has been utilized as an input to ProUCL5.1 in order to establish RBCs on a statewide basis for naturally occurring vanadium in surface soils in Pennsylvania, New Jersey, and New York. (Please refer to TABLE 1 below). The RBC for each state was established by selecting the BTV that was determined by applying the statistical methodology providing the best fit.

The USGS soil survey included 76 sampling locations across Pennsylvania. Three soil samples were collected from each location - one from the ground surface (to 5 cm) and one each from the tops of the first two soil horizons. All the soil samples were collected within the first meter of the soil column. Vanadium was detected in each of the 227 soil samples that were collected.³ The concentrations of vanadium that were detected ranged between 12 mg/kg and 162 mg/kg, with a mean concentration of 66 mg/kg. At the 5% significance level, the data appeared to follow a gamma distribution. Assuming gamma-distribution, analysis using ProUCL indicates a BTV (95% Wilson-Hilferty (WH) Approximation of the upper tolerance limit with 95% Coverage) of 128.8 mg/kg.

The USGS soil survey included 12 sampling locations across New Jersey. As in Pennsylvania, three soil samples were collected from each location within the first meter of the soil column. Vanadium was detected in each of the 36 soil samples that were collected. The concentrations of vanadium that were detected ranged between 3 mg/kg and 115 mg/kg, with a mean concentration of 42 mg/kg. At the 5% significance level, the data appeared to follow a gamma distribution. Assuming gamma-distribution, analysis using ProUCL indicates a BTV (95% WH Approximation of the upper tolerance limit with 95% Coverage) of 136.2 mg/kg.

The USGS soil survey included 72 sampling locations across New York. As in Pennsylvania, three soil samples were collected from each location within the first meter of the soil column. Vanadium was detected in each of the 213 soil samples that were collected.⁴ The concentrations of vanadium that were detected ranged between 12 mg/kg and 194 mg/kg, with a mean concentration of 63 mg/kg. ProUCL Goodness-of-Fit tests indicate that the data do not follow a discernable parametric distribution as the data distribution deviates from the gamma distribution at the upper end. Using nonparametric methods,

³ No top 5 cm sample collected at PA Site 9596.

⁴ No a-horizon sample collected at NY Site 1641, no c-horizon sample collected at NY Site 1641, and no a-horizon sample collected at NY Site 5537.

ProUCL indicates a BTV (95% Percentile Bootstrap upper tolerance limit with 95% Coverage) of 118 mg/kg.

STATEWIDE BACKGROUND VANADIUM CONCENTRATIONS TO USE IN MAKING FILL DETERMINATIONS

Accordingly, for fill not otherwise affected by a release of vanadium, the Department provides the following statewide RBCs:

TABLE 1: Statewide Representative Background Concentrations

State	Representative Background Concentration (RBC) for Vanadium (mg/kg)
Pennsylvania	129
New Jersey	136
New York	118

For fill not otherwise affected by a release of vanadium, the applicable RBC for vanadium may be utilized in lieu of performing a site-specific vanadium Background Demonstration for fill originating in Pennsylvania, New York, or New Jersey. Likewise, the RBC applicable to soil in Pennsylvania may be utilized in lieu of performing a site-specific Equivalent Site Evaluation. Since the previously referenced USGS data set covers the conterminous United States, RBCs applicable to fill originating in other neighboring states may be generated via the described method.