August 9, 2022

Regan Development Corporation
ATTN: Gabe Regan
1055 Saw Mill River Road #204
Ardsley, New York 10502

Re: **Supplemental Phase II Environmental Site Assessment**; 333 Grand Avenue & 154 Allen Street, Village of Johnson City, Broome County, New York
Tax IDs: #143.71-2-13 & #143.72-1-29
PVE File #202110308

Dear Mr. Regan:

Partridge Venture Engineering, PC, dba PVE Engineering (PVE) has completed the Supplemental Phase II Environmental Site Assessment (ESA) in accordance with our approved scope of work, dated July 13, 2022, for the above referenced property (Figures 1 & 2). As discussed, our objective was to further evaluate soil and soil vapor quality in support of our New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Application. Below is a summary of field activities, analytical data and recommendations.

1.0 FIELD ACTIVITIES

1.1 Geophysical Survey and Private Utility Mark Out

A geophysical services contractor was retained to conduct a mark-out to screen the proposed boring locations for utilities or anomalies which may interfere with drilling activities. Sample locations were adjusted accordingly and field activities were completed on July 19, 2022.

1.2 Soil Borings and Sample Collection

On July 20, 2022, PVE completed a total of four (4) soil borings within the 154 Allen Street portion of the subject property (Figure 3). These soil borings were installed via direct push drilling method using a track-mounted Geoprobe™ 54DT drill rig equipped with 4-foot long, 2 ¼-inch diameter stainless steel core barrel (macro-cores) fitted with PVC liners. Soil borings were advanced to a maximum depth of 12-feet below ground surface (bgs). Additionally, surface soil samples were collected from two (2) of the locations investigated previously during the original Phase II ESA within the 333 Grand Avenue portion of the subject property.

The project technician kept a detailed log of each core including lithology, grain size, stratigraphic changes, color, moisture content and the occurrence of refusal. Soil samples were screened in the field for the presence of Volatile Organic Compounds (VOCs) using a calibrated photoionization detector (PID) and headspace techniques. PVE personnel collected a total of five (5) soil samples. Soil samples were submitted to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis of the following:

- Part 375 Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270; &
- RCRA Metals via USEPA Method 6010 & 7343.

Soil borings completed via Geoprobe™ are summarized below:

Boring SB-13 was advanced via Geoprobe™ to 12-feet bgs. Soil consisted of brown silt, little fine and medium sand, some gravel; some rock fragments throughout. Groundwater was not encountered at the time of drilling (ATD). No elevated PID readings were observed. One (1) soil sample was collected from 0.0-2.0 feet bgs for laboratory analysis.

Boring SB-14 was advanced via Geoprobe™ to 12-feet bgs. Soil consisted of dark brown fine sand, little silt, some gravel, little crushed brick fragments, some crushed coal fragments, some ash. Groundwater was not encountered ATD. No elevated PID readings were observed. One (1) soil sample was collected from 1.0-3.0 feet bgs for laboratory analysis.

Boring SB-15 was advanced via Geoprobe™ to 8-feet bgs. Soil consisted of brown silt, some fine sand little gravel to brown silt, some clay. Groundwater was not encountered ATD. No elevated PID readings were observed. No soil sample was collected for laboratory analysis.

Boring SB-16 was advanced via Geoprobe™ to 4-feet bgs. Soil consisted of dark brown fine sand, little silt, some gravel, little crushed brick fragments, some crushed coal fragments, some ash. Groundwater was not encountered ATD. No elevated PID readings were observed. One (1) soil sample was collected from 0.0-2.0 feet bgs for laboratory analysis.

Groundwater was not observed in unconsolidated sediments at any of the four (4) soil boring locations. As such, no temporary monitoring wells were installed in the soil borings.

1.3 Vapor Sampling

One (1) soil vapor sample was collected from the 154 Allen Street portion of the subject property. PVE installed a temporary vapor probe using a Geoprobe™ unit. The probe was sealed at the surface with bentonite chips. Vapor probes were purged of one to three volumes at a rate not to exceed 0.2L/min. A helium tracer test was conducted at the probe location to verify integrity, and demonstrate ambient air was not being drawn into the samples being collected.

The sample was collected in a certified clean Summa canister with a regulator set to collect a sample over the appropriate sampling period. The sample was submitted to a NYSDOH ELAP-certified laboratory for analysis of VOCs via USEPA Method TO-15 following standard chain-of-custody procedures.

2.0 RESULTS

Soil sample results are summarized in Tables 1-2. Analytical reports are attached.

Vapor results are summarized in Table 3. Analytical reports are attached.

2.1 Soil Samples

Analytical results from soil samples are summarized in Table 1-2 and compared to Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as defined in 6NYCRR Part 375. Analytical reports are attached. See Figure 3 for soil boring sampling locations.

2.1.1 SVOCs

One (1) or more SVOCs were detected in all five (5) soil samples collected and analyzed for SVOCs. SVOCs were detected in three (3) of the five (5) soil samples at concentrations exceeding UUSCOs and RRSCOs. Exceedances are defined below:

- SB-6 0-1' 20220720
  - **Benzo(A)Anthracene (9,900 ug/kg)**
  - **Benzo(A)Pyrene (9,100 ug/kg)**
  - **Benzo(B)Fluoranthene (12,000 ug/kg)**
  - Benzo(K)Fluoranthene (3,600 ug/kg)
  - **Chrysene (10,000 ug/kg)**
  - **Dibenz(A,H)Anthracene (1,200 ug/kg)**
  - **Indeno(1,2,3-C,D)Pyrene (4,900 ug/kg)**

- SB-14 1-3' 20220720
  - **Benzo(A)Anthracene (3,200 ug/kg)**
  - **Benzo(A)Pyrene (3,000 ug/kg)**
  - **Benzo(B)Fluoranthene (3,900 ug/kg)**
  - Benzo(K)Fluoranthene (1,300 ug/kg)
  - Chrysene (2,900 ug/kg)
  - **Dibenz(A,H)Anthracene (350 ug/kg)**
  - **Indeno(1,2,3-C,D)Pyrene (1,800 ug/kg)**

- SB-16 0-2' 20220720
  - **Benzo(A)Anthracene (26,000 ug/kg)**
  - **Benzo(A)Pyrene (24,000 ug/kg)**
  - **Benzo(B)Fluoranthene (33,000 ug/kg)**
  - **Benzo(K)Fluoranthene (7,500 ug/kg)**
  - **Chrysene (22000 ug/kg)**
  - **Dibenz(A,H)Anthracene (3,000 ug/kg)**
  - **Indeno(1,2,3-C,D)Pyrene (14,000 ug/kg)**

Bold font indicates RRSCO exceedance.

2.1.2 Metals

Metals were detected in all five (5) of the soil samples collected and analyzed for metals. Two (2) or more metals were detected in three (3) of the five (5) soil samples at concentrations exceeding UUSCOs. No metals were detected at concentrations exceeding their respective RRSCO. Exceedances are defined below:

- SB-6 0-1' 20220720
  - Arsenic (14.4 mg/kg)
  - Chromium, Total (46.3 mg/kg)
  - Mercury (0.227 mg/kg)

- SB-14 1-3' 20220720
  - Lead (360 mg/kg)
  - Mercury (0.68 mg/kg)

- SB-16 0-2' 20220720
  - Arsenic (13.2 mg/kg)
  - Chromium, Total (46.3 mg/kg)
  - Mercury (0.406 mg/kg)

2.2 Vapor Samples

Analytical results from the soil vapor sample are summarized in Table 3 and compared to NYSDOH Decision Matrices as defined in *Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006)*. Analytical reports are attached. See Figure 3 for soil vapor sampling locations.

According to the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006)* and subsequent amendments, only eight (8) compounds are regulated by NYSDOH: 1,1-Dichloroethene (1,1-DCE), Cis-1,2-Dichloroethene (Cis-1,2-DCE), Vinyl Chloride (VC), 1,1,1 – Trichloroethane (1,1,1-TCA), Carbon Tetrachloride, Methylene Chloride, Tetrachloroethylene (PCE) and Trichloroethylene (TCE).

None of the eight (8) NYSDOH regulated compounds were detected in the one (1) soil vapor sample collected.

3.0 DISCUSSION and CONCLUSIONS

3.1 Soil

1. Six (6) soil borings were installed throughout the subject property via Geoprobe™ or hand tools. One (1) soil sample was collected from five (5) of the six (6) soil borings for laboratory analysis.

2. SVOCs were detected in three (3) of the five (5) soil samples at concentrations exceeding UUSCOs and RRSCOs. Two (2) of these soil samples containing RRSCO exceedances were collected from the 154 Allen Street portion of the subject property.

3. Metals were detected in three (3) of the five (5) soil samples at concentrations exceeding UUSCOs.

3.2 Vapor

1. One (1) soil vapor sample was collected from the subject property.

2. No chlorinated VOC were detected in the soil vapor sample.

4.0 RECOMMENDATIONS

1. SVOCs and metals were detected in soil samples at concentrations suggesting the past site operations have adversely affected the subject property. Three (3) soil samples contained one (1) or more contaminants at concentrations exceeding the intended use criteria for soil, the RRSCOs.

2. Redevelopment of the Site will require special handling, testing and potentially off-site disposal of contaminated soils.

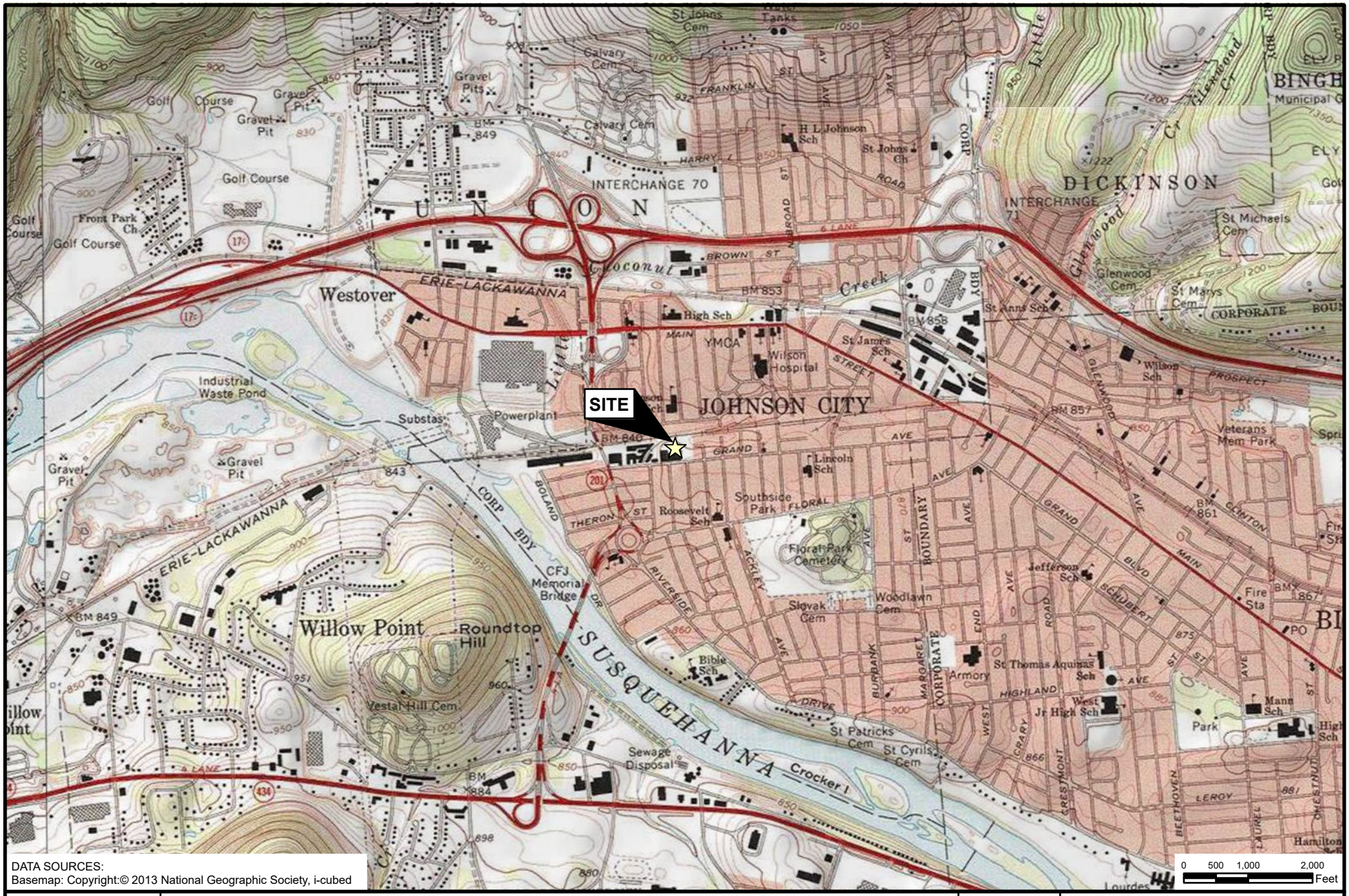
If you have any questions, please do not hesitate to contact us.

Sincerely,

PVE Engineering

Conor B. Tarbell, QEP
Senior Project Manager

FIGURES



PVE
48 Springside Avenue
Poughkeepsie, NY 12603
Office: 845.454.2544
Fax: 845.454.2655

SITE LOCATION MAP

333 GRAND AVENUE & 154 ALLEN STREET
VILLAGE OF JOHNSON CITY
BROOM COUNTY, NEW YORK

PROJECT NO. 202110308	**FIGURE 1**
	DATE: 12/23/2021
	SCALE: AS INDICATED
	PROJECTION: STATE PLANE NAD83 NY CTRL
	ALL LOCATIONS APPROXIMATE

DATA SOURCES:
Tax Parcel Outline: Broom County Parcel Mapper, 12/23/2021
Basemap: NYS ITS GIS Program Office, Westchester County GIS , New York State, Maxar, Microsoft, Copyright:© 2013 National Geographic Society, i-cubed

PVE
48 Springside Avenue
Poughkeepsie, NY 12603
Office: 845.454.2544
Fax: 845.454.2655

SELECTED SITE FEATURES

333 GRAND AVENUE & 154 ALLEN STREET
VILLAGE OF JOHNSON CITY
BROOM COUNTY, NEW YORK

LEGEND
TAX PARCEL OUTLINE

PROJECT NO. 202110308

FIGURE 2

DATE: 08/09/2022
SCALE: AS INDICATED
PROJECTION: STATE PLANE NAD83 NY CTRL
ALL LOCATIONS APPROXIMATE

DATA SOURCES:
Tax Parcel Outline: Tax Parcel Outline: Broom County, GIS Data Viewer 1/17/2022.
Basemap: NYS ITS GIS Program Office, Westchester County GIS , New York State, Maxar, New York State, Maxar, Microsoft

PVE
48 Springside Avenue
Poughkeepsie, NY 12603
Office: 845.454.2544
Fax: 845.454.2655

SAMPLE LOCATIONS

333 GRAND AVENUE & 154 ALLEN STREET
VILLAGE OF JOHNSON CITY
BROOM COUNTY, NEW YORK

LEGEND

- PREV. PHASE II SOIL BORING
- PREV. PHASE II TEMP. MONITORING WELL
- PREV. PHASE II SOIL VAPOR
- SOIL BORING
- SOIL VAPOR
- TAX PARCEL OUTLINE

PROJECT NO. 202110308

FIGURE 3

DATE: 08/09/2022

SCALE: AS INDICATED

PROJECTION: STATE PLANE NAD83 NY EAST

ALL LOCATIONS APPROXIMATE

TABLES

Table 1 - SVOCs in Soil Samples
Compared to UUSCOs and RRSCOs per 6 NYCRR Part 375
333 Grand Avenue & 154 Allen Street, Johnson City, New York
PVE File #202110308

					Date Sampled	7/20/2022			7/20/2022			7/20/2022			7/20/2022			7/20/2022		
					Location	SB-3			SB-6			SB-13			SB-14			SB-16		
					Sample ID	SB-3 0-1 20220720			SB-6 0-1 20220720			SB-13 0-2 20220720			SB-14 1-3 20220720			SB-16 0-2 20220720		
Method	Analyte	CAS RN	UUSCOs	RRSCOs	Unit	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q
SW8270D	1,2,4,5-Tetrachlorobenzene	95-94-3	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	1,2,4-Trichlorobenzene	120-82-1	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	1,2-Dichlorobenzene	95-50-1	1100	100000	ug/kg	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	1,3-Dichlorobenzene	541-73-1	2400	49000	ug/kg	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	1,4-Dichlorobenzene	106-46-7	1800	13000	ug/kg	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	1,4-Dioxane (P-Dioxane)	123-91-1	100	13000	ug/kg	ND< 26	ug/kg	U	ND< 27	ug/kg	U	ND< 26	ug/kg	U	ND< 27	ug/kg	U	ND< 27	ug/kg	U
SW8270D	2,4,5-Trichlorophenol	95-95-4	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2,4,6-Trichlorophenol	88-06-2	NE	NE		ND< 100	ug/kg	U	ND< 110	ug/kg	U	ND< 110	ug/kg	U	ND< 110	ug/kg	U	ND< 110	ug/kg	U
SW8270D	2,4-Dichlorophenol	120-83-2	NE	NE		ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U
SW8270D	2,4-Dimethylphenol	105-67-9	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2,4-Dinitrophenol	51-28-5	NE	NE		ND< 840	ug/kg	U	ND< 880	ug/kg	U	ND< 850	ug/kg	U	ND< 860	ug/kg	U	ND< 870	ug/kg	U
SW8270D	2,4-Dinitrotoluene	121-14-2	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2,6-Dinitrotoluene	606-20-2	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2-Chloronaphthalene	91-58-7	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2-Chlorophenol	95-57-8	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2-Methylnaphthalene	91-57-6	NE	NE		240	ug/kg		240	ug/kg		ND< 210	ug/kg	U	320	ug/kg		500	ug/kg	
SW8270D	2-Methylphenol (O-Cresol)	95-48-7	330	100000	ug/kg	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2-Nitroaniline	88-74-4	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	2-Nitrophenol	88-75-5	NE	NE		ND< 380	ug/kg	U	ND< 390	ug/kg	U	ND< 380	ug/kg	U	ND< 390	ug/kg	U	ND< 390	ug/kg	U
SW8270D	3,3'-Dichlorobenzidine	91-94-1	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	3-Nitroaniline	99-09-2	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	4,6-Dinitro-2-Methylphenol	534-52-1	NE	NE		ND< 460	ug/kg	U	ND< 470	ug/kg	U	ND< 460	ug/kg	U	ND< 470	ug/kg	U	ND< 470	ug/kg	U
SW8270D	4-Bromophenyl Phenyl Ether	101-55-3	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	4-Chloro-3-Methylphenol	59-50-7	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	4-Chloroaniline	106-47-8	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	4-Chlorophenyl Phenyl Ether	7005-72-3	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	4-Nitroaniline	100-01-6	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	4-Nitrophenol	100-02-7	NE	NE		ND< 240	ug/kg	U	ND< 260	ug/kg	U	ND< 250	ug/kg	U	ND< 250	ug/kg	U	ND< 250	ug/kg	U
SW8270D	Acenaphthene	83-32-9	20000	100000	ug/kg	ND< 140	ug/kg	U	760	ug/kg		ND< 140	ug/kg	U	640	ug/kg		2500	ug/kg	
SW8270D	Acenaphthylene	208-96-8	100000	100000	ug/kg	ND< 140	ug/kg	U	580	ug/kg		ND< 140	ug/kg	U	150	ug/kg		2300	ug/kg	
SW8270D	Acetophenone	98-86-2	NE	NE		32	ug/kg	J	ND< 180	ug/kg	U	ND< 180	ug/kg	U	26	ug/kg	J	ND< 180	ug/kg	U
SW8270D	Anthracene	120-12-7	100000	100000	ug/kg	ND< 100	ug/kg	U	2800	ug/kg		ND< 110	ug/kg	U	1600	ug/kg		11000	ug/kg	
SW8270D	Benzo(A)Anthracene	56-55-3	1000	1000	ug/kg	220	ug/kg		**9900**	**ug/kg**		110	ug/kg		**3200**	**ug/kg**		**26000**	**ug/kg**	
SW8270D	Benzo(A)Pyrene	50-32-8	1000	1000	ug/kg	360	ug/kg		**9100**	**ug/kg**		120	ug/kg	J	**3000**	**ug/kg**		**24000**	**ug/kg**	
SW8270D	Benzo(B)Fluoranthene	205-99-2	1000	1000	ug/kg	460	ug/kg		**12000**	**ug/kg**		160	ug/kg		**3900**	**ug/kg**		**33000**	**ug/kg**	
SW8270D	Benzo(G,H,I)Perylene	191-24-2	100000	100000	ug/kg	450	ug/kg		4200	ug/kg		83	ug/kg	J	1500	ug/kg		13000	ug/lg	
SW8270D	Benzo(K)Fluoranthene	207-08-9	800	3900	ug/kg	160	ug/kg		**3600**	**ug/kg**		59	ug/kg	J	**1300**	**ug/kg**		**7500**	**ug/kg**	
SW8270D	Benzoic Acid	65-85-0	NE	NE		ND< 570	ug/kg	U	200	ug/kg	J	ND< 570	ug/kg	U	ND< 580	ug/kg	U	ND< 580	ug/kg	U
SW8270D	Benzyl Alcohol	100-51-6	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Benzyl Butyl Phthalate	85-68-7	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Biphenyl (Diphenyl)	92-52-4	NE	NE		26	ug/kg	J	70	ug/kg	J	ND< 400	ug/kg	U	77	ug/kg	J	190	ug/kg	J
SW8270D	Bis(2-Chloroethoxy) Methane	111-91-1	NE	NE		ND< 190	ug/kg	U	ND< 200	ug/kg	U	ND< 190	ug/kg	U	ND< 190	ug/kg	U	ND< 190	ug/kg	U
SW8270D	Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	111-44-4	NE	NE		ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U
SW8270D	Bis(2-Chloroisopropyl) Ether	108-60-1	NE	NE		ND< 210	ug/kg	U	ND< 220	ug/kg	U	ND< 210	ug/kg	U	ND< 220	ug/kg	U	ND< 220	ug/kg	U
SW8270D	Bis(2-Ethylhexyl) Phthalate	117-81-7	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Carbazole	86-74-8	NE	NE		18	ug/kg	J	1200	ug/kg		ND< 180	ug/kg	U	600	ug/kg		2800	ug/kg	
SW8270D	Chrysene	218-01-9	1000	3900	ug/kg	240	ug/kg		**10000**	**ug/kg**		120	ug/kg		**2900**	**ug/kg**		**22000**	**ug/kg**	
SW8270D	Dibenz(A,H)Anthracene	53-70-3	330	330	ug/kg	64	ug/kg	J	**1200**	**ug/kg**		ND< 110	ug/kg	U	**350**	**ug/kg**		**3000**	**ug/kg**	
SW8270D	Dibenzofuran	132-64-9	7000	59000	ug/kg	57	ug/kg	J	530	ug/kg		ND< 180	ug/kg	U	520	ug/kg		1900	ug/kg	
SW8270D	Diethyl Phthalate	84-66-2	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Dimethyl Phthalate	131-11-3	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Di-N-Butyl Phthalate	84-74-2	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Di-N-Octylphthalate	117-84-0	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Fluoranthene	206-44-0	100000	100000	ug/kg	220	ug/kg		17000	ug/kg		210	ug/kg		7600	ug/kg		41000	ug/kg	
SW8270D	Fluorene	86-73-7	30000	100000	ug/kg	ND< 180	ug/kg	U	860	ug/kg		ND< 180	ug/kg	U	730	ug/kg		3200	ug/kg	
SW8270D	Hexachlorobenzene	118-74-1	330	1200	ug/kg	ND< 100	ug/kg	U	ND< 110	ug/kg	U	ND< 110	ug/kg	U	ND< 110	ug/kg	U	ND< 110	ug/kg	U
SW8270D	Hexachlorobutadiene	87-68-3	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	Hexachlorocyclopentadiene	77-47-4	NE	NE		ND< 500	ug/kg	U	ND< 520	ug/kg	U	ND< 510	ug/kg	U	ND< 510	ug/kg	U	ND< 520	ug/kg	U
SW8270D	Hexachloroethane	67-72-1	NE	NE		ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	500	500	ug/kg	360	ug/kg		**4900**	**ug/kg**		77	ug/kg	J	**1800**	**ug/kg**		**14000**	**ug/kg**	
SW8270D	Isophorone	78-59-1	NE	NE		ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U
SW8270D	M+P MethylPhenol	65794-96-9	NE	NE		ND< 250	ug/kg	U	ND< 260	ug/kg	U	ND< 260	ug/kg	U	28	ug/kg	J	65	ug/kg	J
SW8270D	Naphthalene	91-20-3	12000	100000	ug/kg	190	ug/kg		370	ug/kg		ND< 180	ug/kg	U	680	ug/kg		740	ug/kg	
SW8270D	Nitrobenzene	98-95-3	NE	NE		ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U	ND< 160	ug/kg	U
SW8270D	N-Nitrosodi-N-Propylamine	621-64-7	NE	NE		ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U
SW8270D	N-Nitrosodiphenylamine	86-30-6	NE	NE		ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U
SW8270D	Pentachlorophenol	87-86-5	800	6700	ug/kg	ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U	ND< 140	ug/kg	U
SW8270D	Phenanthrene	85-01-8	100000	100000	ug/kg	170	ug/kg		10000	ug/kg		64	ug/kg	J	6100	ug/kg		40000	ug/kg	
SW8270D	Phenol	108-95-2	330	100000	ug/kg	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	ND< 180	ug/kg	U	47	ug/kg	J
SW8270D	Pyrene	129-00-0	100000	100000	ug/kg	200	ug/kg		15000	ug/kg		170	ug/kg		6200	ug/kg		43000	ug/kg	

Notes:
Standards are for respective Soil Cleanup Objectives per NYSDEC Part 375 Unrestricted Use
Soil Cleanup Objectives (UUSCOs), and Restricted Residential Soil Cleanup Objectives (RRSCOs);
Yellow shading designates those compounds detected at concerntrations exceeding UUSCOs;
Orange shading designates those compounds detected at concentrations exceeding RRSCOs;
J = Detected below the Reporting Limit but greater than or equal to the Method;
NE = No standard established; &
ND and U = Not detected at method detection limit for sample.

Table 2 - Metals in Soil Samples
Compared to UUSCOs and RRSCOs per 6 NYCRR Part 375
333 Grand Avenue & 154 Allen Street, Johnson City, New York
PVE File #202110308

					Date Sampled	7/20/2022			7/20/2022			7/20/2022			7/20/2022			7/20/2022		
					Location	SB-3			SB-6			SB-13			SB-14			SB-16		
					Sample ID	SB-3 0-1 20220720			SB-6 0-1 20220720			SB-13 0-2 20220720			SB-14 1-3 20220720			SB-16 0-2 20220720		
Method	Analyte	CAS RN	UUSCOs	RRSCOs	Unit	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q
6010D	Arsenic	7440-38-2	13	16	mg/kg	4.76	mg/kg		**14.4**	**mg/kg**		6.31	mg/kg		9.5	mg/kg		**13.2**	**mg/kg**	
6010D	Barium	7440-39-3	350	400	mg/kg	28	mg/kg		66.9	mg/kg		33.4	mg/kg		166	mg/kg		105	mg/kg	
6010D	Cadmium	7440-43-9	2.5	4.3	mg/kg	0.461	mg/kg		1.48	mg/kg		0.157	mg/kg	J	0.753	mg/kg		0.942	mg/kg	
6010D	Chromium, Total	7440-47-3	31	290	mg/kg	21.9	mg/kg		**46.3**	**mg/kg**		8.9	mg/kg		10.7	mg/kg		12.6	mg/kg	
6010D	Lead	7439-92-1	63	400	mg/kg	18	mg/kg		48.4	mg/kg		9.88	mg/kg		**360**	**mg/kg**		**352**	**mg/kg**	
6010D	Selenium	7782-49-2	3.9	180	mg/kg	0.453	mg/kg	J	1.06	mg/kg		ND< 0.848	mg/kg	U	ND< 0.851	mg/kg	U	0.191	mg/kg	J
6010D	Silver	7440-22-4	2	180	mg/kg	ND< 0.401	mg/kg	U	0.529	mg/kg		ND< 0.424	mg/kg	U	0.221	mg/kg	J	0.314	mg/kg	J
SW7471B	Mercury	7439-97-6	0.18	0.81	mg/kg	0.064	mg/kg	J	**0.227**	**mg/kg**		ND< 0.075	mg/kg	U	**0.68**	**mg/kg**		**0.406**	**mg/kg**	

Notes:
Standards are for respective Soil Cleanup Objectives per NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs), and Restricted Residential Soil Cleanup Objectives (RRSCOs);
Yellow shading designates those compounds detected at concerntrations exceeding UUSCOs;
Orange shading designates those compounds detected at concentrations exceeding RRSCOs;
J = Detected below the Reporting Limit but greater than or equal to the Method;
NE = No standard established; &
ND and U = Not detected at method detection limit for sample.

Table 3 - VOCs in Soil Vapor Sample
Compared to NYSDOH Decision Matrices
333 Grand Avenue & 154 Allen Street, Johnson City, New York
PVE File #202110308

						Date Sampled	7/20/2022	
						Location	SV-5	
						Sample ID	SV-5 20220720	
Analyte	CAS RN	NFA*	MONITOR*	MITIGATE*	Unit	Result	Unit	Q
1,1,1-Trichloroethane (TCA)	71-55-6	<100	100 - 1,000	>1,000	ug/m3	ND< 1.09	ug/m3	U
1,1,2,2-Tetrachloroethane	79-34-5	NE	NE	NE		ND< 1.37	ug/m3	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NE	NE	NE		ND< 1.53	ug/m3	U
1,1,2-Trichloroethane	79-00-5	NE	NE	NE		ND< 1.09	ug/m3	U
1,1-Dichloroethane	75-34-3	NE	NE	NE		ND< 0.809	ug/m3	U
1,1-Dichloroethene	75-35-4	<6	6 - 60	>60	ug/m3	ND< 0.793	ug/m3	U
1,2,4-Trichlorobenzene	120-82-1	NE	NE	NE		ND< 1.48	ug/m3	U
1,2,4-Trimethylbenzene	95-63-6	NE	NE	NE		96.8	ug/m3	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NE	NE	NE		ND< 1.54	ug/m3	U
1,2-Dichlorobenzene	95-50-1	NE	NE	NE		ND< 1.2	ug/m3	U
1,2-Dichloroethane	107-06-2	NE	NE	NE		ND< 0.809	ug/m3	U
1,2-Dichloropropane	78-87-5	NE	NE	NE		ND< 0.924	ug/m3	U
1,2-Dichlorotetrafluoroethane	76-14-2	NE	NE	NE		ND< 1.4	ug/m3	U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	NE	NE	NE		26.7	ug/m3	
1,3-Butadiene	106-99-0	NE	NE	NE		13.5	ug/m3	
1,3-Dichlorobenzene	541-73-1	NE	NE	NE		ND< 1.2	ug/m3	U
1,4-Dichlorobenzene	106-46-7	NE	NE	NE		ND< 1.2	ug/m3	U
1,4-Dioxane (P-Dioxane)	123-91-1	NE	NE	NE		ND< 0.721	ug/m3	U
2,2,4-Trimethylpentane	540-84-1	NE	NE	NE		17.6	ug/m3	
2-Hexanone	591-78-6	NE	NE	NE		ND< 0.82	ug/m3	U
4-Ethyltoluene	622-96-8	NE	NE	NE		29.3	ug/m3	
Acetone	67-64-1	NE	NE	NE		83.4	ug/m3	
Allyl Chloride (3-Chloropropene)	107-05-1	NE	NE	NE		ND< 0.626	ug/m3	U
Benzene	71-43-2	NE	NE	NE		12.8	ug/m3	
Benzyl Chloride	100-44-7	NE	NE	NE		ND< 1.04	ug/m3	U
Bromodichloromethane	75-27-4	NE	NE	NE		92.5	ug/m3	
Bromoform	75-25-2	NE	NE	NE		ND< 2.07	ug/m3	U
Bromomethane	74-83-9	NE	NE	NE		ND< 0.777	ug/m3	U
Carbon Disulfide	75-15-0	NE	NE	NE		4.86	ug/m3	
Carbon Tetrachloride	56-23-5	<6	6 - 60	>60	ug/m3	ND< 1.26	ug/m3	U
Chlorobenzene	108-90-7	NE	NE	NE		ND< 0.921	ug/m3	U
Chloroethane	75-00-3	NE	NE	NE		ND< 0.528	ug/m3	U
Chloroform	67-66-3	NE	NE	NE		297	ug/m3	
Chloromethane	74-87-3	NE	NE	NE		1.24	ug/m3	
Cis-1,2-Dichloroethylene	156-59-2	<6	6 - 60	>60	ug/m3	ND< 0.793	ug/m3	U
Cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE		ND< 0.908	ug/m3	U
Cyclohexane	110-82-7	NE	NE	NE		18.3	ug/m3	
Dibromochloromethane	124-48-1	NE	NE	NE		28	ug/m3	
Dichlorodifluoromethane	75-71-8	NE	NE	NE		2.37	ug/m3	
Ethanol	64-17-5	NE	NE	NE		ND< 9.42	ug/m3	U
Ethyl Acetate	141-78-6	NE	NE	NE		ND< 1.8	ug/m3	U
Ethylbenzene	100-41-4	NE	NE	NE		177	ug/m3	
Hexachlorobutadiene	87-68-3	NE	NE	NE		ND< 2.13	ug/m3	U
Isopropanol	67-63-0	NE	NE	NE		ND< 1.23	ug/m3	U
m,p-Xylene	179601-23-1	NE	NE	NE		148	ug/m3	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	NE	NE	NE		11.7	ug/m3	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NE	NE	NE		21.7	ug/m3	
Methylene Chloride	75-09-2	<100	100 - 1,000	>1,000	ug/m3	ND< 1.74	ug/m3	U
N-Heptane	142-82-5	NE	NE	NE		83.6	ug/m3	
N-Hexane	110-54-3	NE	NE	NE		82.8	ug/m3	
O-Xylene (1,2-Dimethylbenzene)	95-47-6	NE	NE	NE		68.2	ug/m3	
Styrene	100-42-5	NE	NE	NE		2.54	ug/m3	
Tert-Butyl Alcohol	75-65-0	NE	NE	NE		ND< 1.52	ug/m3	U
Tert-Butyl Methyl Ether	1634-04-4	NE	NE	NE		ND< 0.721	ug/m3	U
Tetrachloroethylene (PCE)	127-18-4	<100	100 - 1,000	>1,000	ug/m3	ND< 1.36	ug/m3	U
Tetrahydrofuran	109-99-9	NE	NE	NE		1.8	ug/m3	
Toluene	108-88-3	NE	NE	NE		95.7	ug/m3	
Trans-1,2-Dichloroethene	156-60-5	NE	NE	NE		ND< 0.793	ug/m3	U
Trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE		ND< 0.908	ug/m3	U
Trichloroethylene (TCE)	79-01-6	<6	6 - 60	>60	ug/m3	ND< 1.07	ug/m3	U
Trichlorofluoromethane	75-69-4	NE	NE	NE		2.28	ug/m3	
Vinyl Bromide	593-60-2	NE	NE	NE		ND< 0.874	ug/m3	U
Vinyl Chloride	75-01-4	<6	6 - 60	>60	ug/m3	ND< 0.511	ug/m3	U

Notes:
Standards are for respective NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York - 2017 Revised Decision Matrices A, B & C;
Green shading indicicates "No Futher Action";
Yellow shading indicates "Monitor";
Orange shading inidicates "Mitigate";
* = Indoor Ambient Air sample required to confirm action;
NE = No standard established; &
ND and U = Not detected at MDL for sample.

SOIL BORING LOGS

PVE Engineering
48 Springside Avenue
Poughkeepsie, NY
Telephone: 845-454-2544
Fax: 845-454-2655

BORING NUMBER SB-13

CLIENT Regan Development Corporation
PROJECT NAME 333 Grand Avenue & 154 Allen Street
PROJECT NUMBER 202110308
PROJECT LOCATION 154 Allen Street, Johnson City, New York
DATE STARTED 7/20/22 **COMPLETED** 7/20/22
GROUND ELEVATION _____ **HOLE SIZE** 4 inches
DRILLING CONTRACTOR PVE Engineering
GROUND WATER LEVELS:
DRILLING METHOD Direct Push via GeoProbe 54DT
AT TIME OF DRILLING ---
LOGGED BY Anthony Spadavecchia **CHECKED BY** SMA
AT END OF DRILLING ---
NOTES Sunny; 65°
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0				Topsoil.	
0.5				Crushed rock.	
1.0	GB 0 - 2'	SM		(SM) Brown silt, little fine and medium sand, some gravel; some rock and rock fragments throughout.	PID = 0
2.5					
3.5		ML		(ML) Brown silt, some clay, some gravel; moist.	
4.0		CL		(CL) Brown clay, some silt, little gravel; moist.	
5.0					
7.5					
8.0		SC-SM		(SC-SM) Brown clay, some silt, little gravel; moist to brown/light brown fine sand, some silt, little gravel; moist.	
10.0					
12.0					

Bottom of borehole at 12.0 feet.

PVE Engineering
48 Springside Avenue
Poughkeepsie, NY
Telephone: 845-454-2544
Fax: 845-454-2655

BORING NUMBER SB-14

CLIENT Regan Development Corporation
PROJECT NAME 333 Grand Avenue & 154 Allen Street
PROJECT NUMBER 202110308
PROJECT LOCATION 154 Allen Street, Johnson City, New York
DATE STARTED 7/20/22 **COMPLETED** 7/20/22
GROUND ELEVATION _____ **HOLE SIZE** 4 inches
DRILLING CONTRACTOR PVE Engineering
GROUND WATER LEVELS:
DRILLING METHOD Direct Push via GeoProbe 54DT
AT TIME OF DRILLING ---
LOGGED BY Anthony Spadavecchia **CHECKED BY** SMA
AT END OF DRILLING ---
NOTES Sunny; 65°
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0				Topsoil.	
1.0				(SM) Dark brown fine sand, little silt, some gravel, little crushed brick fragments, some crushed coal fragments, some ash.	
2.5	GB 1 - 3'	SM			PID = 0
5.0					
7.5					
8.0				(ML) Brown silt, some clay, little fractured rock throughout.	
10.0		ML			
12.0				Bottom of borehole at 12.0 feet.	

PVE Engineering
48 Springside Avenue
Poughkeepsie, NY
Telephone: 845-454-2544
Fax: 845-454-2655

BORING NUMBER SB-15

CLIENT Regan Development Corporation
PROJECT NAME 333 Grand Avenue & 154 Allen Street
PROJECT NUMBER 202110308
PROJECT LOCATION 154 Allen Street, Johnson City, New York
DATE STARTED 7/20/22 **COMPLETED** 7/20/22
GROUND ELEVATION _____ **HOLE SIZE** 4 inches
DRILLING CONTRACTOR PVE Engineering
GROUND WATER LEVELS:
DRILLING METHOD Direct Push via GeoProbe 54DT
AT TIME OF DRILLING ---
LOGGED BY Anthony Spadavecchia **CHECKED BY** SMA
AT END OF DRILLING ---
NOTES Sunny; 65°; no sample collected
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0.0			Topsoil.	
0.5			Crushed rock.	
1.5			Brown silt, some fine sand, little gravel to brown silt, some clay; little gravel, some fractured rock throughout.	PID = 0
2.5				
4.0				
5.0				
7.5				

Bottom of borehole at 8.0 feet.

PVE Engineering
48 Springside Avenue
Poughkeepsie, NY
Telephone: 845-454-2544
Fax: 845-454-2655

BORING NUMBER SB-16

CLIENT Regan Development Corporation
PROJECT NAME 333 Grand Avenue & 154 Allen Street
PROJECT NUMBER 202110308
PROJECT LOCATION 154 Allen Street, Johnson City, New York
DATE STARTED 7/20/22 **COMPLETED** 7/20/22
GROUND ELEVATION _____ **HOLE SIZE** 4 inches
DRILLING CONTRACTOR PVE Engineering
GROUND WATER LEVELS:
DRILLING METHOD Direct Push via GeoProbe 54DT
AT TIME OF DRILLING ---
LOGGED BY Anthony Spadavecchia **CHECKED BY** SMA
AT END OF DRILLING ---
NOTES Sunny; 65°
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0				(SM) Dark brown fine sand, little silt, some gravel, little crushed brick fragments, some crushed coal fragments, some ash.	
1		SM			PID = 0
2	GB 0 - 2'			2.0	
				Crushed rock.	
				2.5	
				(SM) Dark brown fine sand, little silt, some gravel, little crushed brick fragments, some crushed coal fragments, some ash.	
3		SM			
				3.5	
				(ML) Brown silt, some clay, little fractured rock throughout.	
		ML			
4				4.0	

Bottom of borehole at 4.0 feet.

SOIL VAPOR LOG

VAPOR SAMPLING LOG

Project Name/Address: 154 ALLEN ST., JOHNSON CITY, BROOME COUNTY, NY PVE Project #: 20210308

Sampler(s): AJS, TLC, CBT Weather: 93°F; SUNNY

NOTES: _____

KEY

Location Type:
(A) Sub-slab
(B) Soil vapor probe, pre-fabricated (6" STAINLESS STEEL VAPOR POINT)
(C) Soil vapor probe, field constructed (Describe: _____)
(D) Ambient Air

Sampling Method:
(A) 1-L summa canister
(B) 6-L summa canister
(C) Other: 2.7-L

Purge Method:
(A) Peristaltic pump set to a flow rate ≤0.2 L/min
(B) PID set to a flow rate ≤0.2 L/min
(C) Other: _____

Apparent Moisture Content of Sampling Zone:
(A) Dry
(B) Moist
(C) Saturated

Sample ID	Location Type	Apparent Moisture	Sample Depth	Helium Tracer Test	Sampling Method	Purge Method	Purge Volume	Sample Start Date/Time	Sample End Date/Time	Canister ID	Regulator ID	Canister start vacuum	Canister end vacuum
SV-5 20220720	B	A	4'	PASS	C	B	1-3 VOLUMES	20220720 0844	20220720 1026	3160	0069	-28.68"	-7.55"

Analytical Laboratory: _____ Date Shipped to Lab: _____ Delivery Service: __FedEx __UPS _X_Courier

ANALYTICAL RESULTS

ANALYTICAL REPORT

Lab Number:	L2239063
Client:	PVE, LLC 48 Springside Avenue Poughkeepsie, NY 12603
ATTN:	Spadavecchia
Phone:	(845) 454-2544
Project Name:	333 GRAND AVENUE AND 154 ALLEN
Project Number:	Not Specified
Report Date:	08/03/22

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: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified

Lab Number: L2239063
Report Date: 08/03/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2239063-01	SB-13 0-2 20220720	SOIL	JOHNSON CITY, NY	07/20/22 09:10	07/21/22
L2239063-02	SB-14 1-3 20220720	SOIL	JOHNSON CITY, NY	07/20/22 09:25	07/21/22
L2239063-03	SB-16 0-2 20220720	SOIL	JOHNSON CITY, NY	07/20/22 10:10	07/21/22
L2239063-04	SB-3 0-1 20220720	SOIL	JOHNSON CITY, NY	07/20/22 12:45	07/21/22
L2239063-05	SB-6 0-1 20220720	SOIL	JOHNSON CITY, NY	07/20/22 12:30	07/21/22

Project Name:	333 GRAND AVENUE AND 154 ALLEN	**Lab Number:**	L2239063
Project Number:	Not Specified	**Report Date:**	08/03/22

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:	333 GRAND AVENUE AND 154 ALLEN	**Lab Number:**	L2239063
Project Number:	Not Specified	**Report Date:**	08/03/22

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.

Total Metals

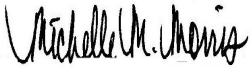
The WG1667537-3 MS recovery, performed on L2239063-01, is outside the acceptance criteria for barium (72%). A post digestion spike was performed and yielded an unacceptable recovery for barium (128%). The serial dilution recovery was not acceptable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1667537-3 MS recoveries, performed on L2239063-01, are outside the acceptance criteria for cadmium (70%), chromium (74%), lead (70%), and silver (73%). A post digestion spike was performed and was within acceptance criteria.

The WG1667537-3 MS recovery, performed on L2239063-01, is outside the acceptance criteria for selenium (72%). A post digestion spike was performed and yielded an unacceptable recovery for selenium (72%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1667537-6 serial dilution analysis, associated with L2239063-01, had a %D above the acceptance criteria for barium (23%).

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:  Michelle M. Morris

Title: Technical Director/Representative Date: 08/03/22

ORGANICS

SEMIVOLATILES

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-01
Client ID: SB-13 0-2 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 09:10
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 01:38
Analyst: SLR
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	210		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN **Lab Number:** L2239063

Project Number: Not Specified **Report Date:** 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-01 Date Collected: 07/20/22 09:10

Client ID: SB-13 0-2 20220720 Date Received: 07/21/22

Sample Location: JOHNSON CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	110		ug/kg	110	20.	1
Benzo(a)pyrene	120	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	160		ug/kg	110	30.	1
Benzo(k)fluoranthene	59	J	ug/kg	110	28.	1
Chrysene	120		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	83	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	64	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	77	J	ug/kg	140	25.	1
Pyrene	170		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-01
Client ID: SB-13 0-2 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 09:10
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	75		18-120

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-02
Client ID: SB-14 1-3 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 09:25
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 02:01
Analyst: SLR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	640		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	7600	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	680		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN **Lab Number:** L2239063

Project Number: Not Specified **Report Date:** 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-02 Date Collected: 07/20/22 09:25

Client ID: SB-14 1-3 20220720 Date Received: 07/21/22

Sample Location: JOHNSON CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	3200		ug/kg	110	20.	1
Benzo(a)pyrene	3000		ug/kg	140	44.	1
Benzo(b)fluoranthene	3900		ug/kg	110	30.	1
Benzo(k)fluoranthene	1300		ug/kg	110	29.	1
Chrysene	2900		ug/kg	110	19.	1
Acenaphthylene	150		ug/kg	140	28.	1
Anthracene	1600		ug/kg	110	35.	1
Benzo(ghi)perylene	1500		ug/kg	140	21.	1
Fluorene	730		ug/kg	180	17.	1
Phenanthrene	6100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	350		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1800		ug/kg	140	25.	1
Pyrene	6200		ug/kg	110	18.	1
Biphenyl	77	J	ug/kg	410	23.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	520		ug/kg	180	17.	1
2-Methylnaphthalene	320		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	26	J	ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	28	J	ug/kg	260	28.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-02
Client ID: SB-14 1-3 20220720
Sample Location: JOHNSON CITY, NY
Date Collected: 07/20/22 09:25
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	600		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	78		18-120

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-02 D
Client ID: SB-14 1-3 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 09:25
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 14:32
Analyst: JG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	5400		ug/kg	540	100	5

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-03
Client ID: SB-16 0-2 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 10:10
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 02:24
Analyst: SLR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2500		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	41000	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	740		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN **Lab Number:** L2239063

Project Number: Not Specified **Report Date:** 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-03 Date Collected: 07/20/22 10:10

Client ID: SB-16 0-2 20220720 Date Received: 07/21/22

Sample Location: JOHNSON CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	26000	E	ug/kg	110	20.	1
Benzo(a)pyrene	24000	E	ug/kg	140	44.	1
Benzo(b)fluoranthene	33000	E	ug/kg	110	30.	1
Benzo(k)fluoranthene	7500	E	ug/kg	110	29.	1
Chrysene	22000	E	ug/kg	110	19.	1
Acenaphthylene	2300		ug/kg	140	28.	1
Anthracene	11000	E	ug/kg	110	35.	1
Benzo(ghi)perylene	11000	E	ug/kg	140	21.	1
Fluorene	3200		ug/kg	180	18.	1
Phenanthrene	31000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	3000		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	14000	E	ug/kg	140	25.	1
Pyrene	35000	E	ug/kg	110	18.	1
Biphenyl	190	J	ug/kg	410	23.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	1900		ug/kg	180	17.	1
2-Methylnaphthalene	500		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	47	J	ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	65	J	ug/kg	260	28.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-03
Client ID: SB-16 0-2 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 10:10
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	2800		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	84		18-120

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-03 D
Client ID: SB-16 0-2 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 10:10
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 14:56
Analyst: JG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	52000		ug/kg	2200	410	20
Benzo(a)anthracene	28000		ug/kg	2200	410	20
Benzo(a)pyrene	22000		ug/kg	2900	880	20
Benzo(b)fluoranthene	26000		ug/kg	2200	610	20
Benzo(k)fluoranthene	10000		ug/kg	2200	580	20
Chrysene	27000		ug/kg	2200	380	20
Anthracene	11000		ug/kg	2200	700	20
Benzo(ghi)perylene	13000		ug/kg	2900	420	20
Phenanthrene	40000		ug/kg	2200	440	20
Indeno(1,2,3-cd)pyrene	15000		ug/kg	2900	500	20
Pyrene	43000		ug/kg	2200	360	20

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-04
Client ID: SB-3 0-1 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 12:45
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 02:48
Analyst: SLR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	220		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	190		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN **Lab Number:** L2239063

Project Number: Not Specified **Report Date:** 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-04 Date Collected: 07/20/22 12:45

Client ID: SB-3 0-1 20220720 Date Received: 07/21/22

Sample Location: JOHNSON CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	220		ug/kg	100	20.	1
Benzo(a)pyrene	360		ug/kg	140	43.	1
Benzo(b)fluoranthene	460		ug/kg	100	29.	1
Benzo(k)fluoranthene	160		ug/kg	100	28.	1
Chrysene	240		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	450		ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	170		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	64	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	360		ug/kg	140	24.	1
Pyrene	200		ug/kg	100	17.	1
Biphenyl	26	J	ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	57	J	ug/kg	180	16.	1
2-Methylnaphthalene	240		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	32	J	ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-04
Client ID: SB-3 0-1 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 12:45
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	18	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	70		18-120

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-05
Client ID: SB-6 0-1 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 12:30
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 03:11
Analyst: SLR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	760		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	17000	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	370		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN **Lab Number:** L2239063

Project Number: Not Specified **Report Date:** 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-05 Date Collected: 07/20/22 12:30

Client ID: SB-6 0-1 20220720 Date Received: 07/21/22

Sample Location: JOHNSON CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	9900	E	ug/kg	110	20.	1
Benzo(a)pyrene	9100	E	ug/kg	140	44.	1
Benzo(b)fluoranthene	12000	E	ug/kg	110	31.	1
Benzo(k)fluoranthene	3600		ug/kg	110	29.	1
Chrysene	10000	E	ug/kg	110	19.	1
Acenaphthylene	580		ug/kg	140	28.	1
Anthracene	2800		ug/kg	110	36.	1
Benzo(ghi)perylene	4200		ug/kg	140	21.	1
Fluorene	860		ug/kg	180	18.	1
Phenanthrene	10000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	1200		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	4900		ug/kg	140	25.	1
Pyrene	15000	E	ug/kg	110	18.	1
Biphenyl	70	J	ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	530		ug/kg	180	17.	1
2-Methylnaphthalene	240		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-05
Client ID: SB-6 0-1 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 12:30
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	200	J	ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	1200		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	78		18-120

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-05 D
Client ID: SB-6 0-1 20220720
Sample Location: JOHNSON CITY, NY

Date Collected: 07/20/22 12:30
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/03/22 15:20
Analyst: JG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/25/22 05:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	13000		ug/kg	1100	210	10
Benzo(a)anthracene	7900		ug/kg	1100	200	10
Benzo(a)pyrene	6000		ug/kg	1400	440	10
Benzo(b)fluoranthene	7800		ug/kg	1100	310	10
Chrysene	8200		ug/kg	1100	190	10
Phenanthrene	8200		ug/kg	1100	220	10
Pyrene	11000		ug/kg	1100	180	10

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/24/22 17:07
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 07/24/22 08:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1666645-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/24/22 17:07
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 07/24/22 08:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1666645-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/24/22 17:07
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 07/24/22 08:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1666645-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	98		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN

Project Number: Not Specified

Lab Number: L2239063

Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1666645-2 WG1666645-3								
Acenaphthene	69		74		31-137	7		50
1,2,4-Trichlorobenzene	72		77		38-107	7		50
Hexachlorobenzene	87		100		40-140	14		50
Bis(2-chloroethyl)ether	67		69		40-140	3		50
2-Chloronaphthalene	74		80		40-140	8		50
1,2-Dichlorobenzene	67		70		40-140	6		50
1,3-Dichlorobenzene	64		67		40-140	5		50
1,4-Dichlorobenzene	64		67		28-104	5		50
3,3'-Dichlorobenzidine	73		82		40-140	12		50
2,4-Dinitrotoluene	59		67		40-132	13		50
2,6-Dinitrotoluene	65		75		40-140	14		50
Fluoranthene	73		82		40-140	12		50
4-Chlorophenyl phenyl ether	73		83		40-140	13		50
4-Bromophenyl phenyl ether	81		92		40-140	13		50
Bis(2-chloroisopropyl)ether	46		49		40-140	6		50
Bis(2-chloroethoxy)methane	69		73		40-117	6		50
Hexachlorobutadiene	77		84		40-140	9		50
Hexachlorocyclopentadiene	**13**	Q	**14**	Q	40-140	7		50
Hexachloroethane	54		58		40-140	7		50
Isophorone	66		71		40-140	7		50
Naphthalene	68		74		40-140	8		50
Nitrobenzene	64		68		40-140	6		50
NDPA/DPA	73		80		36-157	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN

Project Number: Not Specified

Lab Number: L2239063

Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1666645-2 WG1666645-3								
n-Nitrosodi-n-propylamine	66		69		32-121	6		50
Bis(2-ethylhexyl)phthalate	70		76		40-140	8		50
Butyl benzyl phthalate	71		79		40-140	11		50
Di-n-butylphthalate	80		84		40-140	5		50
Di-n-octylphthalate	70		76		40-140	8		50
Diethyl phthalate	71		77		40-140	8		50
Dimethyl phthalate	75		82		40-140	9		50
Benzo(a)anthracene	72		81		40-140	12		50
Benzo(a)pyrene	83		94		40-140	12		50
Benzo(b)fluoranthene	82		86		40-140	5		50
Benzo(k)fluoranthene	74		89		40-140	18		50
Chrysene	70		79		40-140	12		50
Acenaphthylene	74		82		40-140	10		50
Anthracene	72		79		40-140	9		50
Benzo(ghi)perylene	77		86		40-140	11		50
Fluorene	71		78		40-140	9		50
Phenanthrene	69		76		40-140	10		50
Dibenzo(a,h)anthracene	80		88		40-140	10		50
Indeno(1,2,3-cd)pyrene	87		96		40-140	10		50
Pyrene	70		78		35-142	11		50
Biphenyl	72		78		37-127	8		50
4-Chloroaniline	67		74		40-140	10		50
2-Nitroaniline	78		86		47-134	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN

Project Number: Not Specified

Lab Number: L2239063

Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1666645-2 WG1666645-3								
3-Nitroaniline	75		82		26-129	9		50
4-Nitroaniline	70		80		41-125	13		50
Dibenzofuran	71		78		40-140	9		50
2-Methylnaphthalene	73		78		40-140	7		50
1,2,4,5-Tetrachlorobenzene	82		89		40-117	8		50
Acetophenone	69		74		14-144	7		50
2,4,6-Trichlorophenol	85		95		30-130	11		50
p-Chloro-m-cresol	80		87		26-103	8		50
2-Chlorophenol	74		76		25-102	4		50
2,4-Dichlorophenol	78		84		30-130	7		50
2,4-Dimethylphenol	74		78		30-130	7		50
2-Nitrophenol	44		50		30-130	13		50
4-Nitrophenol	36		40		11-114	11		50
2,4-Dinitrophenol	11		12		4-130	9		50
4,6-Dinitro-o-cresol	11		13		10-130	17		50
Pentachlorophenol	64		77		17-109	18		50
Phenol	74		79		26-90	7		50
2-Methylphenol	75		79		30-130.	5		50
3-Methylphenol/4-Methylphenol	81		85		30-130	5		50
2,4,5-Trichlorophenol	85		94		30-130	10		50
Benzoic Acid	27		30		10-110	11		50
Benzyl Alcohol	71		75		40-140	7		50
Carbazole	74		79		54-128	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN

Project Number: Not Specified

Lab Number: L2239063

Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1666645-2 WG1666645-3								
1,4-Dioxane	48		50		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	79		81		25-120
Phenol-d6	78		81		10-120
Nitrobenzene-d5	65		69		23-120
2-Fluorobiphenyl	78		85		30-120
2,4,6-Tribromophenol	95		109		10-136
4-Terphenyl-d14	80		91		18-120

METALS

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-01
Client ID: SB-13 0-2 20220720
Sample Location: JOHNSON CITY, NY
Date Collected: 07/20/22 09:10
Date Received: 07/21/22
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											
Arsenic, Total	6.31		mg/kg	0.424	0.088	1	07/26/22 22:50	08/02/22 19:14	EPA 3050B	1,6010D	EW
Barium, Total	33.4		mg/kg	0.424	0.074	1	07/26/22 22:50	08/02/22 19:14	EPA 3050B	1,6010D	EW
Cadmium, Total	0.157	J	mg/kg	0.424	0.042	1	07/26/22 22:50	08/02/22 19:14	EPA 3050B	1,6010D	EW
Chromium, Total	8.90		mg/kg	0.424	0.041	1	07/26/22 22:50	08/02/22 19:14	EPA 3050B	1,6010D	EW
Lead, Total	9.88		mg/kg	2.12	0.114	1	07/26/22 22:50	08/02/22 19:14	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.075	0.049	1	07/26/22 23:41	08/02/22 09:42	EPA 7471B	1,7471B	DMB
Selenium, Total	ND		mg/kg	0.848	0.109	1	07/26/22 22:50	08/02/22 21:14	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.424	0.120	1	07/26/22 22:50	08/02/22 19:14	EPA 3050B	1,6010D	EW

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-02
Client ID: SB-14 1-3 20220720
Sample Location: JOHNSON CITY, NY
Date Collected: 07/20/22 09:25
Date Received: 07/21/22
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											
Arsenic, Total	9.50		mg/kg	0.425	0.089	1	07/26/22 22:50	08/02/22 21:50	EPA 3050B	1,6010D	EW
Barium, Total	166		mg/kg	0.425	0.074	1	07/26/22 22:50	08/02/22 21:50	EPA 3050B	1,6010D	EW
Cadmium, Total	0.753		mg/kg	0.425	0.042	1	07/26/22 22:50	08/02/22 21:50	EPA 3050B	1,6010D	EW
Chromium, Total	10.7		mg/kg	0.425	0.041	1	07/26/22 22:50	08/02/22 21:50	EPA 3050B	1,6010D	EW
Lead, Total	360		mg/kg	2.13	0.114	1	07/26/22 22:50	08/02/22 21:50	EPA 3050B	1,6010D	EW
Mercury, Total	0.680		mg/kg	0.074	0.049	1	07/26/22 23:41	08/02/22 09:45	EPA 7471B	1,7471B	DMB
Selenium, Total	ND		mg/kg	0.851	0.110	1	07/26/22 22:50	08/02/22 21:50	EPA 3050B	1,6010D	EW
Silver, Total	0.221	J	mg/kg	0.425	0.120	1	07/26/22 22:50	08/02/22 21:50	EPA 3050B	1,6010D	EW

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-03
Client ID: SB-16 0-2 20220720
Sample Location: JOHNSON CITY, NY
Date Collected: 07/20/22 10:10
Date Received: 07/21/22
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											
Arsenic, Total	13.2		mg/kg	0.424	0.088	1	07/26/22 22:50	08/02/22 21:55	EPA 3050B	1,6010D	EW
Barium, Total	105		mg/kg	0.424	0.074	1	07/26/22 22:50	08/02/22 21:55	EPA 3050B	1,6010D	EW
Cadmium, Total	0.942		mg/kg	0.424	0.042	1	07/26/22 22:50	08/02/22 21:55	EPA 3050B	1,6010D	EW
Chromium, Total	12.6		mg/kg	0.424	0.041	1	07/26/22 22:50	08/02/22 21:55	EPA 3050B	1,6010D	EW
Lead, Total	352		mg/kg	2.12	0.114	1	07/26/22 22:50	08/02/22 21:55	EPA 3050B	1,6010D	EW
Mercury, Total	0.406		mg/kg	0.078	0.051	1	07/26/22 23:41	08/02/22 09:55	EPA 7471B	1,7471B	DMB
Selenium, Total	0.191	J	mg/kg	0.849	0.110	1	07/26/22 22:50	08/02/22 21:55	EPA 3050B	1,6010D	EW
Silver, Total	0.314	J	mg/kg	0.424	0.120	1	07/26/22 22:50	08/02/22 21:55	EPA 3050B	1,6010D	EW

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-04
Client ID: SB-3 0-1 20220720
Sample Location: JOHNSON CITY, NY
Date Collected: 07/20/22 12:45
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.76		mg/kg	0.401	0.083	1	07/26/22 22:50	08/02/22 22:00	EPA 3050B	1,6010D	EW
Barium, Total	28.0		mg/kg	0.401	0.070	1	07/26/22 22:50	08/02/22 22:00	EPA 3050B	1,6010D	EW
Cadmium, Total	0.461		mg/kg	0.401	0.039	1	07/26/22 22:50	08/02/22 22:00	EPA 3050B	1,6010D	EW
Chromium, Total	21.9		mg/kg	0.401	0.039	1	07/26/22 22:50	08/02/22 22:00	EPA 3050B	1,6010D	EW
Lead, Total	18.0		mg/kg	2.00	0.107	1	07/26/22 22:50	08/02/22 22:00	EPA 3050B	1,6010D	EW
Mercury, Total	0.064	J	mg/kg	0.068	0.045	1	07/26/22 23:41	08/02/22 09:58	EPA 7471B	1,7471B	DMB
Selenium, Total	0.453	J	mg/kg	0.801	0.103	1	07/26/22 22:50	08/02/22 22:00	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.401	0.113	1	07/26/22 22:50	08/02/22 22:00	EPA 3050B	1,6010D	EW

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Lab Number: L2239063
Project Number: Not Specified
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-05
Client ID: SB-6 0-1 20220720
Sample Location: JOHNSON CITY, NY
Date Collected: 07/20/22 12:30
Date Received: 07/21/22
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											
Arsenic, Total	14.4		mg/kg	0.420	0.087	1	07/26/22 22:50	08/02/22 22:05	EPA 3050B	1,6010D	EW
Barium, Total	66.9		mg/kg	0.420	0.073	1	07/26/22 22:50	08/02/22 22:05	EPA 3050B	1,6010D	EW
Cadmium, Total	1.48		mg/kg	0.420	0.041	1	07/26/22 22:50	08/02/22 22:05	EPA 3050B	1,6010D	EW
Chromium, Total	46.3		mg/kg	0.420	0.040	1	07/26/22 22:50	08/02/22 22:05	EPA 3050B	1,6010D	EW
Lead, Total	48.4		mg/kg	2.10	0.112	1	07/26/22 22:50	08/02/22 22:05	EPA 3050B	1,6010D	EW
Mercury, Total	0.227		mg/kg	0.080	0.052	1	07/26/22 23:41	08/02/22 10:02	EPA 7471B	1,7471B	DMB
Selenium, Total	1.06		mg/kg	0.840	0.108	1	07/26/22 22:50	08/02/22 22:05	EPA 3050B	1,6010D	EW
Silver, Total	0.529		mg/kg	0.420	0.119	1	07/26/22 22:50	08/02/22 22:05	EPA 3050B	1,6010D	EW

Project Name: 333 GRAND AVENUE AND 154 ALLEN **Lab Number:** L2239063

Project Number: Not Specified **Report Date:** 08/03/22

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): 01-05 Batch: WG1667537-1										
Arsenic, Total	0.116	J	mg/kg	0.400	0.083	1	07/26/22 22:50	08/02/22 16:47	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	07/26/22 22:50	08/02/22 16:47	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/26/22 22:50	08/02/22 16:47	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/26/22 22:50	08/02/22 16:47	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	07/26/22 22:50	08/02/22 16:47	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/26/22 22:50	08/02/22 16:47	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	07/26/22 22:50	08/02/22 16:47	1,6010D	EW

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): 01-05 Batch: WG1667538-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/26/22 23:41	08/02/22 08:36	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN

Project Number: Not Specified

Lab Number: L2239063

Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1667537-2 SRM Lot Number: D113-540								
Arsenic, Total	98		-		70-130	-		
Barium, Total	86		-		75-125	-		
Cadmium, Total	95		-		75-125	-		
Chromium, Total	92		-		70-130	-		
Lead, Total	93		-		72-128	-		
Selenium, Total	97		-		66-134	-		
Silver, Total	87		-		70-131	-		
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1667538-2 SRM Lot Number: D113-540								
Mercury, Total	93		-		60-140	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified

Lab Number: L2239063
Report Date: 08/03/22

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): 01-05 QC Batch ID: WG1667537-3 QC Sample: L2239063-01 Client ID: SB-13 0-2 20220720												
Arsenic, Total	6.31	10.1	14.1	77		-	-		75-125	-		20
Barium, Total	33.4	169	156	**72**	Q	-	-		75-125	-		20
Cadmium, Total	0.157J	4.48	3.16	**70**	Q	-	-		75-125	-		20
Chromium, Total	8.90	16.9	21.5	**74**	Q	-	-		75-125	-		20
Lead, Total	9.88	44.8	41.2	**70**	Q	-	-		75-125	-		20
Selenium, Total	ND	10.1	7.30	**72**	Q	-	-		75-125	-		20
Silver, Total	ND	25.3	18.6	**73**	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1667538-3 WG1667538-4 QC Sample: L2237678-03 Client ID: MS Sample												
Mercury, Total	0.335	2.25	2.58	100		2.23	94		80-120	15		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN

Project Number: Not Specified

Lab Number: L2239063

Report Date: 08/03/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1667537-4 QC Sample: L2239063-01 Client ID: SB-13 0-2 20220720						
Arsenic, Total	6.31	7.08	mg/kg	12		20
Barium, Total	33.4	35.5	mg/kg	6		20
Cadmium, Total	0.157J	0.184J	mg/kg	NC		20
Chromium, Total	8.90	10.0	mg/kg	12		20
Lead, Total	9.88	11.7	mg/kg	17		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1667537-4 QC Sample: L2239063-01 Client ID: SB-13 0-2 20220720						
Selenium, Total	ND	0.255J	mg/kg	NC		20

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2239063
Report Date: 08/03/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1667537-6 QC Sample: L2239063-01 Client ID: SB-13 0-2 20220720						
Barium, Total	33.4	41.2	mg/kg	**23**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-01
Client ID: SB-13 0-2 20220720
Sample Location: JOHNSON CITY, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/20/22 09:10
Date Received: 07/21/22
Field Prep: Not Specified

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	-	07/23/22 09:42	121,2540G	RI

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-02
Client ID: SB-14 1-3 20220720
Sample Location: JOHNSON CITY, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/20/22 09:25
Date Received: 07/21/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	07/23/22 09:42	121,2540G	RI

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-03
Client ID: SB-16 0-2 20220720
Sample Location: JOHNSON CITY, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/20/22 10:10
Date Received: 07/21/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	07/23/22 09:42	121,2540G	RI

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-04
Client ID: SB-3 0-1 20220720
Sample Location: JOHNSON CITY, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/20/22 12:45
Date Received: 07/21/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	07/23/22 09:42	121,2540G	RI

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified
Lab Number: L2239063
Report Date: 08/03/22

SAMPLE RESULTS

Lab ID: L2239063-05
Client ID: SB-6 0-1 20220720
Sample Location: JOHNSON CITY, NY
Sample Depth:
Matrix: Soil
Date Collected: 07/20/22 12:30
Date Received: 07/21/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	07/23/22 09:42	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 333 GRAND AVENUE AND 154 ALLEN

Project Number: Not Specified

Lab Number: L2239063

Report Date: 08/03/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1666480-1 QC Sample: L2239335-01 Client ID: DUP Sample						
Solids, Total	72.2	78.0	%	8		20

Project Name: 333 GRAND AVENUE AND 154 ALLEN
Project Number: Not Specified

Lab Number: L2239063
Report Date: 08/03/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2239063-01A	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L2239063-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2239063-01C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)
L2239063-02A	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L2239063-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2239063-02C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)
L2239063-03A	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L2239063-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2239063-03C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)
L2239063-04A	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L2239063-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2239063-04C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)
L2239063-05A	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L2239063-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2239063-05C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14)

*Values in parentheses indicate holding time in days

Project Name:	333 GRAND AVENUE AND 154 ALLEN	**Lab Number:**	L2239063
Project Number:	Not Specified	**Report Date:**	08/03/22

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

Project Name:	333 GRAND AVENUE AND 154 ALLEN	**Lab Number:**	L2239063
Project Number:	Not Specified	**Report Date:**	08/03/22

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:	333 GRAND AVENUE AND 154 ALLEN	**Lab Number:**	L2239063
Project Number:	Not Specified	**Report Date:**	08/03/22

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.)

Project Name:	333 GRAND AVENUE AND 154 ALLEN	**Lab Number:**	L2239063
Project Number:	Not Specified	**Report Date:**	08/03/22

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 it's 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, SM4500Cl-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, TL, 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.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 7/22/22

ALPHA Job #: L2239063

Client Information
Client: PVE ENGINEERING
Address: 48 SPRINGSIDE AVENUE
POUGHKEEPSIE, N.Y. 12603
Phone: 845-454-2544
Fax: 845-454-2655
Email: ASPADAVECCHIA@PVE-LLC.COM

Project Information
Project Name: 333 GRAND AVENUE AND 154 ALLEN STREET
Project Location: JOHNSON CITY, N.Y.
Project # 202110308
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: 7-29-2022
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other NYSDEC EQUIS

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PART 375 SVOCs VIA USEPA METHOD 8270	RCRA METALS VIA USEPA METHOD 6010/7343	Sample Specific Comments	Total Bottle
39063-01	SB-13 0-2 20220720	7-20-22	0910	S	AJS	X	X		3
-02	SB-14 1-3 20220720	"	0925	S	AJS	X	X		"
-03	SB-16 0-2 20220720	"	1010	S	AJS	X	X		"
-04	SB-3 0-1 20220720	"	1245	S	AJS	X	X		"
-05	SB-6 0-1 20220720	"	1230	S	AJS	X	X		"

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Ashley St	7-21-22	Richard O'Konesky	7/21/22-1135
Richard O'Konesky	7/21/22-		7/22/22 0003

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2239152
Client:	PVE, LLC 48 Springside Avenue Poughkeepsie, NY 12603
ATTN:	Spadavecchia
Phone:	(845) 454-2544
Project Name:	Not Specified
Project Number:	202110308
Report Date:	08/03/22

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: Not Specified
Project Number: 202110308

Lab Number: L2239152
Report Date: 08/03/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2239152-01	SV-5 20220720	SOIL_VAPOR	154 ALLEN STREET JOHNSON CITY, N.Y.	07/20/22 10:26	07/21/22

Project Name:	Not Specified	**Lab Number:**	L2239152
Project Number:	202110308	**Report Date:**	08/03/22

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:	Not Specified	**Lab Number:**	L2239152
Project Number:	202110308	**Report Date:**	08/03/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 23, 2022. The canister certification results are provided as an addendum.

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: Christopher J. Anderson

Title: Technical Director/Representative Date: 08/03/22

AIR

Project Name: ***Lab Number:*** L2239152

Project Number: 202110308 ***Report Date:*** 08/03/22

SAMPLE RESULTS

Lab ID: L2239152-01
Client ID: SV-5 20220720
Sample Location: 154 ALLEN STREET JOHNSON CITY, N.Y.

Date Collected: 07/20/22 10:26
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/31/22 18:28
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--		1
Chloromethane	0.599	0.200	--	1.24	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	6.08	0.200	--	13.5	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	35.1	1.00	--	83.4	2.38	--		1
Trichlorofluoromethane	0.406	0.200	--	2.28	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.56	0.200	--	4.86	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	3.98	0.500	--	11.7	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: ***Lab Number:*** L2239152

Project Number: 202110308 ***Report Date:*** 08/03/22

SAMPLE RESULTS

Lab ID: L2239152-01
Client ID: SV-5 20220720
Sample Location: 154 ALLEN STREET JOHNSON CITY, N.Y.

Date Collected: 07/20/22 10:26
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	60.8	0.200	--	297	0.977	--		1
Tetrahydrofuran	0.609	0.500	--	1.80	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	23.5	0.200	--	82.8	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	4.01	0.200	--	12.8	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	5.32	0.200	--	18.3	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	13.8	0.200	--	92.5	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	3.76	0.200	--	17.6	0.934	--		1
Heptane	20.4	0.200	--	83.6	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	5.30	0.500	--	21.7	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	25.4	0.200	--	95.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	3.29	0.200	--	28.0	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	40.8	0.200	--	177	0.869	--		1

Project Name: ***Lab Number:*** L2239152

Project Number: 202110308 ***Report Date:*** 08/03/22

SAMPLE RESULTS

Lab ID: L2239152-01
Client ID: SV-5 20220720
Sample Location: 154 ALLEN STREET JOHNSON CITY, N.Y.

Date Collected: 07/20/22 10:26
Date Received: 07/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	34.1	0.400	--	148	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.597	0.200	--	2.54	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	15.7	0.200	--	68.2	0.869	--		1
4-Ethyltoluene	5.95	0.200	--	29.3	0.983	--		1
1,3,5-Trimethylbenzene	5.43	0.200	--	26.7	0.983	--		1
1,2,4-Trimethylbenzene	19.7	0.200	--	96.8	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	100		60-140

Project Name: Not Specified
Project Number: 202110308
Lab Number: L2239152
Report Date: 08/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/31/22 14:33

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1669502-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: Not Specified
Project Number: 202110308
Lab Number: L2239152
Report Date: 08/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/31/22 14:33

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1669502-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: Not Specified
Project Number: 202110308
Lab Number: L2239152
Report Date: 08/03/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/31/22 14:33

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1669502-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 202110308

Lab Number: L2239152
Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1669502-3								
Dichlorodifluoromethane	90		-		70-130	-		
Chloromethane	92		-		70-130	-		
Freon-114	98		-		70-130	-		
Vinyl chloride	105		-		70-130	-		
1,3-Butadiene	91		-		70-130	-		
Bromomethane	106		-		70-130	-		
Chloroethane	97		-		70-130	-		
Ethanol	84		-		40-160	-		
Vinyl bromide	87		-		70-130	-		
Acetone	104		-		40-160	-		
Trichlorofluoromethane	86		-		70-130	-		
Isopropanol	85		-		40-160	-		
1,1-Dichloroethene	95		-		70-130	-		
Tertiary butyl Alcohol	86		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	98		-		70-130	-		
Carbon disulfide	87		-		70-130	-		
Freon-113	97		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	77		-		70-130	-		
2-Butanone	85		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: 202110308

Lab Number: L2239152
Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1669502-3								
Ethyl Acetate	97		-		70-130	-		
Chloroform	96		-		70-130	-		
Tetrahydrofuran	82		-		70-130	-		
1,2-Dichloroethane	84		-		70-130	-		
n-Hexane	90		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	96		-		70-130	-		
Cyclohexane	90		-		70-130	-		
1,2-Dichloropropane	99		-		70-130	-		
Bromodichloromethane	91		-		70-130	-		
1,4-Dioxane	90		-		70-130	-		
Trichloroethene	97		-		70-130	-		
2,2,4-Trimethylpentane	91		-		70-130	-		
Heptane	91		-		70-130	-		
cis-1,3-Dichloropropene	97		-		70-130	-		
4-Methyl-2-pentanone	90		-		70-130	-		
trans-1,3-Dichloropropene	83		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	96		-		70-130	-		
2-Hexanone	88		-		70-130	-		
Dibromochloromethane	103		-		70-130	-		
1,2-Dibromoethane	99		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Project Number: 202110308

Lab Number: L2239152

Report Date: 08/03/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1669502-3								
Tetrachloroethene	98		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	105		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	108		-		70-130	-		
Styrene	102		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	105		-		70-130	-		
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	100		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Benzyl chloride	99		-		70-130	-		
1,3-Dichlorobenzene	107		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	105		-		70-130	-		
1,2,4-Trichlorobenzene	79		-		70-130	-		
Hexachlorobutadiene	80		-		70-130	-		

Project Name:

Lab Number: L2239152

Project Number: 202110308

Report Date: 08/03/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2239152-01	SV-5 20220720	0069	Flow 3	07/18/22	393990		-	-	-	Pass	18.0	22.9	24
L2239152-01	SV-5 20220720	3160	2.7L Can	06/23/22	391822	L2229971-02	Pass	-29.5	-2.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 21:27
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/09/22 21:27
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2229971
Report Date: 08/03/22

Air Canister Certification Results

Lab ID: L2229971-02
Client ID: CAN 2786 SHELF 12
Sample Location:

Date Collected: 06/07/22 18:00
Date Received: 06/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	89		60-140

Project Name: Not Specified
Project Number: 202110308

Lab Number: L2239152
Report Date: 08/03/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2239152-01A	Canister - 1 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L2239152
Project Number:	202110308	**Report Date:**	08/03/22

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: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L2239152
Project Number:	202110308	**Report Date:**	08/03/22

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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L2239152
Project Number:	202110308	**Report Date:**	08/03/22

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

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: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

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 it's 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, SM4500Cl-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, TL, 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.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/22/22

ALPHA Job #: L2239152

Client Information

Client: PVE ENGINEERING
Address: 48 SPRINGSIDE AVENUE
POUGHKEEPSIE, N.Y. 12603
Phone: 845-454-2544
Fax: 845-454-2655
Email: ASPADAVECCHIA@PVE-LLC.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 154 ALLEN STREET JOHNSON CITY, N.Y.
Project #: 20211030B
Project Manager:
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 7-29-2022 Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☑ Additional Deliverables: NYSDEC EQUIS
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

TARA ALVARADO
TALVARADO@PVE-LLC.COM

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subject Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
9152-01	SV-5 20220720	7-20-22	0844	1026	-28.68"	-2.55"	SV	AJS	2.7L	3160	0069	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

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.

Relinquished By:	Date/Time	Received By:	Date/Time:
	7-21-22		7-21-22 - 1035
	7/22/22 - 1431		7/22/22 0:30