



ATLAS

GROUNDWATER AND LANDFILL GAS MONITORING REPORT #34

**FORMER PORTSMOUTH LANDFILL
PORTSMOUTH, RHODE ISLAND 02871**

ATLAS PROJECT NO.: 3010000351

PREPARED FOR:

AP Enterprise LLC
28 Teal Drive
Wakefield, Rhode Island 02879

PREPARED BY:

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, Massachusetts 01801

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1.0 INTRODUCTION

Atlas Technical Consultants LLC (Atlas) was retained by AP Enterprise LLC to conduct quarterly groundwater monitoring and landfill gas monitoring at the former Portsmouth Landfill located on Park Avenue in Portsmouth, Rhode Island (Site). The objective of this work is to implement the Rhode Island Department of Environmental Management (RIDEM) approved Site Monitoring Plan and Second Phase of Site Monitoring Plan prepared by Tim O'Connor & Company LLC.

1.1 Site Location and Description

The entrance to the former Portsmouth Landfill is located 500 feet west-northwest of the intersection formed by Boyds Lane and Park Avenue. The property is identified by the Portsmouth Tax Assessor as Plat 20 Lots 1, 2 & 13 and Plat 25 Lot 2 (the Site). The Site encompasses approximately 15.02 acres. The ground surface of the central portion of the landfill is generally level, and slopes downward along the landfill margins. A Site Locus Map and a Site Plan are included as **Figures 1 and 2**, respectively.

1.2 Background

The following activities were conducted to evaluate the potential presence of contamination in soil gas and groundwater resulting from historic landfill activities.

On April 25, 2017, groundwater monitoring wells MW-1, MW-2, MW-3, and MW-4 were completed at the Site. As outlined in the Second Phase of the Site Monitoring Plan, approved by RIDEM, Atlas installed four (4) additional groundwater monitoring wells on November 11, 2021 (MW-5, MW-6, MW-7 and MW-8). Groundwater monitoring wells were advanced depths of 10 to 18 feet below ground surface and were constructed using two-inch diameter, polyvinyl chloride (PVC) riser and machine-slotted 0.01 inch well screen. The well screen was placed to intercept the groundwater table. Groundwater was encountered at depths of 5 to 12 feet below grade. Soils consisted of fill and stratified sands. Groundwater monitoring well locations are depicted on **Figure 2**.

Four (4) permanent soil gas points (SGPs) (SG-1, SG-2, SG-3 and SG-4) were installed on April 25, 2017. At the request of RIDEM, On April 13, 2018, Atlas installed seven (7) additional perimeter SGPs (SG-3A, SG-3B, SG-3C, SG-3D, SG-3E, SG-3F and SG-3G), located every 50 feet along the edge of the Site boundary near SG-3. SG-3 had concentrations of methane exceeding the lower explosive limit (LEL) of 5% and the RIDEM limit of 25% of the LEL (1.25%). As outlined in the Second Phase of Site Monitoring Plan, approved by RIDEM, on November 11, 2021 Atlas installed four (4) additional SGP's (SG-5, SG-6, SG-7 and SG-8) along the Site boundary. In November 2025, SGP-3B was replaced. All of the SGPs were installed in the unsaturated zone, using a Geoprobe® 21" stainless soil gas implant. The depth of placement was determined by the existing depth to groundwater at each location, which ranged from approximately 4 to 12 feet below grade.

All of the peripheral SGPs are positioned to monitor for potential landfill gas migration from the solid waste mound. SGP locations are shown on **Figure 2**.



2.0 FIELD ACTIVITIES

The following activities were conducted to evaluate the potential presence of contamination in soil gas and groundwater resulting from historic landfill activities.

2.1 Monitoring Well Gauging and Area Groundwater Flow

On October 27, 2025, Atlas gauged the depth to groundwater in the eight (8) on Site groundwater monitoring wells using an electronic oil/water interface probe. Depth to groundwater was measured from the top of the PVC well risers and ranged from 7.05 feet below top of casing in MW-1 to 14.99 feet below top of casing in MW-8. Non-aqueous phase liquids were not detected on the groundwater surface, or at the bottom of the wells. A Water Level Gauging Sheet is provided as **Table 1**.

On June 15, 2017, DiPrete Engineering completed a well elevation survey of wells MW-1 through MW-4. On November 20, 2025, DiPrete Engineering completed a site survey, including the elevations of groundwater wells MW-1 through MW-8 and SGP-1 through SGP-8. The site groundwater monitoring wells and SGPs were surveyed with reference to mean seal level.

2.2 Groundwater Sampling and Analysis

On October 27, 2025, Atlas completed quarterly groundwater sampling at the Site. The groundwater samples were obtained using low stress purging. Atlas used a variable speed low-flow peristaltic pump to control the rate of purging and limit the drawdown. High density polyethylene (HDPE) tubing was used at each well. Field parameters were recorded during sampling using a YSI Pro Series with flow-through cell. Field parameters included pH, water temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen and turbidity. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8 for the analysis volatile organic compounds (VOCs) by US Environmental Protection Agency (EPA) Method 8260 and total metals by EPA Methods 6010 and 7010.

The groundwater samples were contained in laboratory grade pre-preserved sample containers, placed in a cooler on ice and submitted under chain of custody to Eurofins Environmental Testing New England (Eurofins) of North Kingstown, Rhode Island, a Rhode Island certified laboratory.

2.3 Groundwater Analytical Results

No metals were reported in excess of the RIDEM GA Groundwater Objectives in the groundwater samples obtained on October 27, 2025.

Vinyl chloride was detected in MW-8 at a concentration (0.0030 mg/L) exceeding the RIDEM GA Groundwater Objective of 0.002 mg/L. No other VOCs were reported in excess of the RIDEM GA Groundwater Objectives in the groundwater samples obtained on October 27, 2025.

The method detection limit for thallium (0.004 mg/L) is reported by the laboratory above the RIDEM GA Groundwater objective of 0.002 mg/L.

The groundwater analytical data is summarized on **Table 2**. The laboratory analytical report is included in **Appendix A**.

2.4 Soil Gas Monitoring

On October 27, 2025, Atlas conducted the thirty fourth quarterly round of landfill gas monitoring. Soil gas concentrations of methane, hydrogen sulfide, oxygen and carbon dioxide were measured at the monitoring points using a Landtech Gem 5000 Landfill Gas Analyzer and a QRAE II Gas Analyzer. Additionally, ambient temperature, barometric pressure, wind speed and wind direction were measured and recorded. SGPs are depicted on **Figure 2**. The soil gas monitoring readings are summarized on **Table 3**.

Methane was detected in monitoring point SG-3, at a concentration of 15.6%, above methane's lower explosive limit (LEL) and upper explosive limit (UEL) of 5% and 15%. Methane was detected in SG-8 at a concentration of 4.2%, below methane's LEL of 5%.

The measured methane concentrations in SG-3 and SG-8 exceed the RIDEM Solid Waste Regulation No. 2, Section 2.3.08 (d), of 25% of the LEL (1.25%) at the Site boundary. All of the other monitoring points measured were non-detect for methane.

Hydrogen sulfide was detected in SG-3 at a concentration of 18%. All of the other monitoring points measured were non-detect for hydrogen sulfide.

Carbon dioxide concentrations ranged from non-detected to a maximum of 15.2% at SG-3. Oxygen concentrations ranged from atmospheric (approximately 21.5%) down to none-detected (0%) at SG-3. The soil gas monitoring results are summarized in **Table 3**.

3.0 CONCLUSIONS

Atlas performed the thirty fourth quarterly groundwater and landfill gas monitoring on October 27, 2025, at the former Portsmouth town landfill on Park Avenue in Portsmouth, Rhode Island. Based upon the scope of work and sampling activities completed, Atlas concludes the following:

- No metals were reported in excess of the RIDEM GA Groundwater Objectives.
- The concentration of vinyl chloride in MW-8 was detected above the RIDEM GA Groundwater Objectives. No other VOCs were reported in excess of the RIDEM GA Groundwater Objectives.
- Methane was detected in soil gas monitoring point SG-3 (15.6%), above methane's UEL of 15%. Methane was detected in soil gas monitoring point SG-8 (4.2%), below methane's LEL of 5%. These concentrations exceed the RIDEM Solid Waste Regulation No. 2, Section 2.3.08 (d), of 25% of the LEL (1.25%). In Atlas' opinion, current conditions do not constitute a threat of harm to human health. However, soil gas conditions should continue to be closely monitored due to the observed methane concentrations. Methane was not detected in any of the other SGPs.
- Hydrogen sulfide was detected in SG-3 at a concentration of 18%.
- Carbon dioxide concentrations ranged from non-detected to a maximum of 15.2% at SG-3. Oxygen concentrations ranged from atmospheric (approximately 21.5%) down to 0% at SG-3.



4.0 RECOMMENDATIONS

- The next quarterly monitoring event is scheduled for January 2026.

TABLES



WATER LEVEL MEASUREMENTS

<i>Location:</i>	Portsmouth Landfill, Park Ave.	<i>Atlas Proj. #</i>	3010000351
<i>Client:</i>	AP Enterprise LLC	<i>Date:</i>	10/27/25
<i>Instrument:</i>	Solinst Interface Probe	<i>Gauged By:</i>	MH
<i>Checked By:</i>	AK		

WELL #	M.P. ELEVATIONS	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	EQUIVALENT HD ELEV.
MW-1	9.1	---	7.05	0.00	2.05
MW-2	16.5	---	14.24	0.00	2.26
MW-3	16.7	---	14.34	0.00	2.36
MW-4	14.2	---	12.03	0.00	2.17
MW-5	9.7	---	7.48	0.00	2.22
MW-6	15.2	---	12.89	0.00	2.31
MW-7	14.8	---	12.89	0.00	1.91
MW-8	17.5	---	14.99	0.00	2.51

NOTES:

Height of PVC; MW-1: 3.21, MW-2: 4.01, MW-3: 3.27, MW-4: 2.97

Survey (MW-1 - MW-4) completed by DiPrete Engineering (6/15/17)

Table 2

Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island

Well ID	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	1,1-Dichloroethane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethane	Dichlorofluoromethane	Diethyl Ether	Isopropylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride	
RDEM GA Groundwater Objectives	5/31/2017	ND (0.05)	ND (0.05)	0.061	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.015	0.1	0.05	NS	0.02	NS	NS	NS	0.075	0.005	0.1	NS	NS	0.07	NS	NS	NS	0.005	0.1	0.005	0.002	
	9/9/2017	ND (0.05)	ND (0.05)	0.066	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.027	NS	NS	NS	NS	NS	0.036	ND (0.001)	0.0011	ND (0.001)	0.0040	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.002)	0.0011	0.0040	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
	12/21/2017	ND (0.05)	ND (0.05)	1.21	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.023	NS	NS	NS	NS	NS	0.023	ND (0.001)	0.0010	ND (0.001)	0.0029	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.002)	0.0073	0.0017	0.0191	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	4/3/2018	ND (0.005)	ND (0.005)	0.480	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.029	NS	NS	NS	NS	NS	0.029	ND (0.001)	0.0012	ND (0.001)	0.0062	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	7/31/2018	ND (0.005)	ND (0.015)	0.554	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0066	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	10/30/2018	ND (0.001)	ND (0.002)	0.607	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.027	NS	NS	NS	NS	NS	0.027	ND (0.001)	0.0010	ND (0.001)	0.0024	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	1/9/2019	ND (0.002)	ND (0.002)	0.619	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.016	NS	NS	NS	NS	NS	0.016	ND (0.001)	0.0013	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0068	0.0050	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
	4/12/2019	ND (0.001)	ND (0.002)	0.606	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.016	NS	NS	NS	NS	NS	0.016	ND (0.001)	0.0013	ND (0.001)	0.0044	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0068	0.0050	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
	7/29/2019	ND (0.001)	ND (0.002)	0.482	ND (0.005)	0.0027	ND (0.015)	ND (0.015)	ND (0.015)	0.029	NS	NS	NS	NS	NS	0.029	ND (0.001)	0.0012	ND (0.001)	0.0062	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	10/30/2019	ND (0.001)	0.004	0.479	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0066	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	1/15/2020	ND (0.001)	ND (0.002)	0.661	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.027	NS	NS	NS	NS	NS	0.027	ND (0.001)	0.0010	ND (0.001)	0.0024	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	4/23/2020	ND (0.001)	ND (0.002)	0.606	0.0067	ND (0.0025)	ND (0.015)	0.022	ND (0.015)	0.027	NS	NS	NS	NS	NS	0.027	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0068	0.0050	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	7/30/2020	ND (0.001)	ND (0.002)	0.225	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0066	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	10/19/2020	ND (0.001)	ND (0.002)	0.175	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0066	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
	1/9/2021	ND (0.001)	ND (0.002)	0.282	0.0019	ND (0.0025)	ND (0.015)	0.006	0.016	ND (0.015)	0.129	NS	NS	NS	NS	0.029	ND (0.001)	0.0012	ND (0.001)	0.0062	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
4/7/2021	ND (0.001)	ND (0.002)	0.294	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0066	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
7/27/2021	ND (0.001)	ND (0.002)	0.594	ND (0.005)	ND (0.0025)	ND (0.015)	0.011	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
10/19/2021	ND (0.002)	ND (0.002)	0.072	ND (0.005)	ND (0.0025)	ND (0.015)	ND (0.015)	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0062	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0012	0.0020	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
1/19/2022	ND (0.002)	ND (0.002)	0.646	0.0068	ND (0.0025)	ND (0.015)	0.021	ND (0.015)	0.025	NS	NS	NS	NS	NS	0.025	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0068	0.0050	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
4/19/2022	ND (0.001)	ND (0.002)	ND (0.025)	ND (0.005)	ND (0.015)	0.031	ND (0.015)	0.033	ND (0.015)	0.199	NS	NS	NS	NS	0.029	ND (0.001)	0.0012	ND (0.001)	0.0062	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
7/19/2022	ND (0.001)	0.0043	0.039	ND (0.0025)	ND (0.0025)	0.012	0.019	0.022	0.0060	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.037	ND (0.001)	0.0010	ND (0.001)	0.0077	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
10/19/2022	ND (0.001)	0.0039	0.130	ND (0.0025)	ND (0.0025)	0.0069	0.0031	0.012	ND (0.001)	0.036	NS	NS	NS	NS	0.036	ND (0.001)	0.0010	ND (0.001)	0.0019	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
1/9/2023	ND (0.001)	ND (0.001)	0.027	0.0030	0.0033	ND (0.0015)	0.076	0.014	0.0048	0.100	ND (0.001)	ND (0.005)	ND (0.002)	ND (0.004)	0.070	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
4/4/2023	ND (0.001)	ND (0.001)	0.034	ND (0.0025)	ND (0.0025)	0.029	0.0035	0.0064	0.036	ND (0.001)	ND (0.005)	ND (0.002)	ND (0.004)	0.130	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
7/17/2023	ND (0.001)	0.0016	0.110	0.0012	0.00052	0.0015	0.014	0.010	0.022	0.019	ND (0.001)	ND (0.005)	ND (0.002)	ND (0.004)	0.110	ND (0.001)	0.0010	ND (0.001)	0.0012	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
10/19/2023	0.0016	ND (0.001)	0.061	0.0018	0.0023	ND (0.0015)	0.076	0.017	0.011	0.130	ND (0.001)	ND (0.005)	ND (0.002)	ND (0.004)	0.020	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
1/10/2024	ND (0.002)	ND (0.002)	0.039	0.0039	0.0028	ND (0.004)	0.044	0.022	0.019	0.044	ND (0.002)	ND (0.002)	ND (0.004)	0.019	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
4/19/2024	ND (0.002)	0.0063	0.100	ND (0.0025)	ND (0.0025)	0.029	0.0079	0.0036	0.036	ND (0.004)	ND (0.005)	ND (0.002)	ND (0.006)	0.039	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
8/9/2024	ND (0.002)	ND (0.002)	0.029	ND (0.0025)	ND (0.0025)	0.035	0.0063	0.0042	0.023	ND (0.0025)	ND (0.002)	ND (0.006)	ND (0.004)	0.110	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
10/1/2024	ND (0.002)	0.0046	0.040	ND (0.0025)	ND (0.0025)	0.021	0.0040	0.0031	0.011	ND (0.0025)	ND (0.002)	ND (0.006)	ND (0.004)	0.100	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
1/24/2025	ND (0.002)	ND (0.002)	0.030	0.0011	0.0029	ND (0.004)	0.120	0.0078	0.006	0.140	ND (0.0025)	ND (0.002)	ND (0.004)	0.100	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
4/17/2025	ND (0.002)	ND (0.002)	0.028	ND (0.0025)	ND (0.0025)	0.040	0.0041	0.003	0.003	ND (0.0025)	ND (0.002)	ND (0.004)	ND (0.004)	0.240	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
7/3/2025	ND (0.002)	ND (0.002)	0.023	ND (0.0025)	ND (0.0025)	0.042	0.0067	0.0051	0.003	ND (0.0025)	ND (0.002)	ND (0.004)	ND (0.004)	0.270	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	
10/27/2025	ND (0.002)	0.0029	0.027	ND (0.0025)	ND (0.0025)	0.014	0.0066	0.0015	0.012	ND (0.0025)	ND (0.002)	ND (0.004)	ND (0.004)	0.083	ND (0.001)	0.0010	ND (0.001)	0.0063	ND (0.002)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	0.0091	0.0117	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	

Notes: All units in mg/L = milligrams per liter
NS = No Standard
ND = Not detected above method detection limit
0.05 mg/L = Exceeds RDEM GA Groundwater Objective

Table 2

Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island

Well ID	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	1,1-Dichloroethane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethane	Dichlorofluoromethane	Diethyl Ether	Isopropylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride						
RIDEM GA Groundwater Objectives		0.006	0.01	2	0.004	0.005	0.1	NS	NS	0.015	0.1	0.05	NS	0.002	NS	NS	NS	0.075	0.005	0.1	NS	NS	0.07	NS	NS	0.005	0.1	0.005	0.002							
MW-4	5/31/2017	ND (0.005)	ND (0.002)	0.060	ND (0.005)	0.0043	ND (0.010)	ND (0.010)	0.067	ND (0.002)	0.042	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.010)	1.33	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS					
	9/8/2017	ND (0.002)	ND (0.002)	0.030	ND (0.005)	0.0025	ND (0.010)	ND (0.010)	0.021	ND (0.002)	0.025	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	0.062	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS					
	12/21/2017	ND (0.002)	ND (0.002)	0.040	ND (0.005)	ND (0.0025)	ND (0.010)	ND (0.010)	0.017	ND (0.010)	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	0.264	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS				
	4/3/2018	ND (0.002)	ND (0.005)	0.040	ND (0.005)	0.0028	ND (0.010)	ND (0.010)	0.043	ND (0.010)	0.068	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.00	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	7/31/2018	ND (0.005)	ND (0.010)	0.032	ND (0.005)	ND (0.0025)	ND (0.010)	ND (0.010)	0.021	ND (0.010)	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	0.006	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	10/30/2018	ND (0.001)	ND (0.002)	0.070	ND (0.005)	0.0044	ND (0.010)	ND (0.010)	0.062	ND (0.010)	0.026	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.00	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	1/9/2019	ND (0.002)	ND (0.002)	0.060	ND (0.005)	0.0030	ND (0.010)	ND (0.010)	0.062	ND (0.010)	0.069	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.00	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	4/12/2019	ND (0.001)	ND (0.002)	0.047	ND (0.005)	ND (0.0025)	ND (0.010)	ND (0.010)	0.034	ND (0.010)	0.038	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.34	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/29/2019	ND (0.001)	ND (0.002)	0.067	ND (0.005)	0.0093	ND (0.010)	ND (0.010)	0.062	ND (0.010)	0.046	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.53	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/30/2019	ND (0.001)	ND (0.002)	0.070	ND (0.005)	ND (0.0025)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.041	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	0.643	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/15/2020	ND (0.001)	ND (0.002)	0.068	ND (0.005)	0.0040	ND (0.010)	ND (0.010)	0.069	ND (0.010)	0.079	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	2.41	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/23/2020	ND (0.001)	ND (0.002)	0.063	ND (0.005)	0.0033	ND (0.010)	ND (0.010)	0.073	ND (0.010)	0.061	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	2.06	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/30/2020	ND (0.001)	ND (0.002)	ND (0.0025)	ND (0.005)	ND (0.0025)	ND (0.010)	ND (0.010)	0.033	ND (0.010)	0.025	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.00	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/19/2020	ND (0.001)	ND (0.002)	0.043	ND (0.005)	ND (0.0025)	ND (0.010)	ND (0.010)	0.036	ND (0.010)	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.23	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/9/2021	ND (0.001)	ND (0.002)	0.062	ND (0.005)	0.0027	ND (0.010)	ND (0.010)	0.066	ND (0.010)	0.064	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	2.12	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/7/2021	ND (0.001)	ND (0.002)	0.038	ND (0.005)	ND (0.0025)	ND (0.010)	ND (0.010)	0.066	ND (0.010)	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	0.66	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/27/2021	ND (0.001)	ND (0.002)	0.046	ND (0.005)	0.0034	ND (0.010)	ND (0.010)	0.038	ND (0.010)	0.029	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.21	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/2021	ND (0.002)	ND (0.002)	0.074	ND (0.005)	0.0042	ND (0.010)	ND (0.010)	0.076	0.2611	0.049	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.09	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/19/2022	ND (0.002)	ND (0.002)	0.046	ND (0.005)	0.0047	ND (0.010)	ND (0.010)	0.102	ND (0.010)	0.035	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.36	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/19/2022	ND (0.001)	ND (0.002)	0.063	ND (0.005)	0.0070	ND (0.010)	ND (0.010)	0.081	ND (0.010)	0.046	ND (0.005)	ND (0.005)	ND (0.0010)	ND (0.010)	1.82	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/19/2022	ND (0.001)	ND (0.001)	0.062	ND (0.001)	0.0041	ND (0.001)	0.00028	0.058	0.0031	0.027	ND (0.001)	ND (0.001)	ND (0.0002)	1.96	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0020)	ND (0.0010)	ND (0.0010)	ND (0.0020)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/6/2022	ND (0.001)	ND (0.001)	0.060	ND (0.001)	0.0034	ND (0.001)	0.00045	0.064	0.0037	0.004	ND (0.001)	ND (0.0002)	1.40	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/9/2023	0.0013	ND (0.001)	0.064	ND (0.001)	0.0046	ND (0.001)	0.00069	0.082	0.0041	0.061	ND (0.001)	ND (0.0005)	ND (0.0002)	ND (0.0004)	2.20	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	4/4/2023	ND (0.001)	ND (0.001)	0.045	ND (0.001)	0.0030	ND (0.001)	0.00043	0.065	0.0036	0.045	ND (0.001)	ND (0.0005)	ND (0.0002)	ND (0.0004)	1.80	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/17/2023	ND (0.001)	ND (0.001)	0.027	ND (0.001)	0.0028	0.0016	0.00063	0.061	0.016	0.024	ND (0.001)	ND (0.0005)	ND (0.0002)	ND (0.0004)	0.930	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/9/2023	0.0012	ND (0.001)	0.070	ND (0.001)	0.0036	ND (0.001)	0.0011	0.130	0.011	0.052	ND (0.001)	ND (0.0005)	ND (0.0002)	ND (0.0004)	1.800	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	1/10/2024	ND (0.002)	ND (0.002)	0.032	ND (0.006)	0.0022	ND (0.004)	ND (0.004)	0.029	0.0017	0.028	ND (0.002)	ND (0.002)	ND (0.0008)	ND (0.0004)	0.330	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	4/19/2024	ND (0.002)	ND (0.002)	0.036	ND (0.006)	0.002	ND (0.004)	0.004	0.0036	0.029	0.029	ND (0.002)	ND (0.002)	ND (0.0008)	ND (0.0004)	0.840	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/29/2024	ND (0.002)	ND (0.002)	0.044	ND (0.006)	0.002	ND (0.004)	0.004	0.039	0.0036	0.027	ND (0.002)	ND (0.002)	ND (0.0008)	ND (0.0004)	1.200	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/1/2024	ND (0.002)	ND (0.002)	0.082	ND (0.006)	0.0038	ND (0.004)	0.004	0.0																											

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-1	5/30/2017	54	30.24	4	SE	0.0	20.5	0	20.5	0	0
	9/8/2017	72	30.03	5	S	0.0	19.2	0	19.1	0	0
	12/21/2017	32	30.24	8	NW	0.0	21.6	0	21.2	0	0
	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	21.6	0	0
	7/31/2018	85	30.14	1	S	0.0	19.4	0	19.4	0	0
	10/30/2018	50	29.97	8	SSE	0.0	20.9	0	20.8	0	0.1
	1/9/2019	43	29.38	5	S	0.0	20.8	0	20.8	0	0.1
	4/12/2019	49	30.10	6	NW	0.0	21.3	No flow, obstructed			
	4/25/2019	54	29.86	3	N	0.0	20.9	0	20.7	0	0
	7/29/2019	87	30.01	4	SE	0.0	21.9	Standpipe laying on ground. Tubing appeared intact but no flow.			
	10/30/2019	67	30.36	0	---	0.0	20.2	Standpipe repaired			
	1/15/2020	44	30.17	6	S	0.0	21.2	0	21.2	0	0
	4/23/2020	46	30.05	5	S	0.0	20.8	0	20.8	0	0
	7/30/2020	78	29.86	5	S	0.0	20.0	0	20.0	0	0
	10/19/2020	67	30.23	4	S	0.0	20.8	0	20.8	0	0
	1/5/2021	32	29.75	8	E	0.0	20.1	0	20.1	0	0
	4/7/2021	55	29.83	6	E	0.0	19.2	0	19.2	0	0
	7/27/2021	81	29.95	5	SE	0.0	20.3	0	20.0	0	0.4
	10/19/2021	50	29.88	11	W	0.0	20.8	0	20.6	0	0
	1/19/2022	35	29.95	6	S	0.0	22.0	0	22.0	0	0
	4/19/2022	50	29.49	10	SW	0.0	21.0	0	21.0	0	0
	7/19/2022	80	29.67	2	SW	0.0	20.3	0	20.3	0	0
	10/5/2022	54	29.85	5	E	0.0	20.9	0	20.9	0	0
	1/9/2023	34	29.84	3	S	0.0	21.2	0	21.2	0	0
	4/4/2023	51	30.05	2	SE	0.0	22.0	0	22.0	0	0
	7/17/2023	70	29.88	2	S	0.0	20.2	0	20.2	0	0
	10/4/2023	71	30.15	7	NW	0.0	20.6	0	20.4	0	0
	1/12/2024	44	30.08	5	W	0.0	21.8	0	21.6	0	0
	4/10/2024	50	30.50	2	SE	0.0	20.3	0	20.3	0	0
	7/29/2024	64	29.98	5	W	0.0	20.5	0	20.5	0	0
	10/21/2024	70	30.11	4	SE	0.0	20.6	0	20.6	0	0
	1/24/2025	30	29.47	2	W	0.0	22.5	0	22.5	0	0
4/11/2025	43	30.20	5	NE	0.0	21.6	0	21.0	0	0	
7/9/2025	80	29.96	3	N	0.0	20.8	0	20.7	0	0	
10/27/2025	53	30.31	4	W	0.0	21.5	0	21.5	0	0	

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-2	5/30/2017	56	30.22	6	SE	0.0	20.6	0	20.6	0	0
	9/8/2017	72	30.03	8	S	0.0	19.4	0	19.3	0	0
	12/21/2017	32	30.24	10	NW	0.0	21.6	0	21.4	0	0
	4/13/2018	72	30.03	8	S	0.0	19.4	0	19.3	0	0
	7/31/2018	85	30.15	12	SW	0.0	19.8	0	19.7	0	0.1
	10/30/2018	50	29.95	8	SE	0.0	21.1	0	20.9	0	0.1
	1/9/2019	43	29.34	10	S	0.0	21.2	0	21.2	0	0
	4/12/2019	49	30.10	7	NE	0.0	21.2	0	21.2	0	0.2
	7/29/2019	99	30.04	3	S	0.0	21.8	0.1	21.6	0	0.2
	10/30/2019	67	30.36	0	---	0.0	20.2	0	20.6	0	0.1
	1/15/2020	45	30.14	5	S	0.0	21.3	0	21.2	0	0
	4/23/2020	49	29.99	3	S	0.0	20.8	0	20.8	0	0
	7/30/2020	80	28.86	10	S	0.0	20.4	0	20.4	0	0
	10/19/2020	65	30.23	2	S	0.0	20.9	0	20.9	0	0
	1/5/2021	32	29.75	3	E	0.0	20.1	0	20.1	0	0
	4/7/2021	56	29.91	4	E	0.0	20.8	0	20.8	0	0
	7/27/2021	84	29.95	8	SE	0.0	20.5	0	20.5	0	0
	10/19/2021	50	29.86	12	W	0.0	20.8	0	20.4	0	0
	1/19/2022	35	29.95	6	S	0.0	22.2	0	19.9	0	0
	4/19/2022	50	29.50	10	SW	0.0	21.0	0	19.8	0	0
	7/19/2022	78	29.67	4	SW	0.0	20.3	0	20.3	0	0
	10/5/2022	54	29.85	4	E	0.0	20.9	0	20.9	0	0
	1/9/2023	35	29.84	3	S	0.0	21.7	0	21.7	0	0
	4/4/2023	50	30.04	2	SE	0.0	22.0	0	22.0	0	0
	7/17/2023	70	29.88	2	S	0.0	20.2	0	20.2	0	0
	10/4/2023	71	30.15	5	NW	0.0	20.6	0	20.1	0	0
	1/12/2024	43	30.08	5	W	0.0	21.8	0	21.6	0	0
	4/10/2024	50	30.50	3	SE	0.0	20.3	0	20.1	0	0
	7/29/2024	63	29.98	4	W	0.0	20.5	0	19.9	0	0.6
	10/21/2024	70	30.11	4	SE	0.0	20.6	0	20.4	0	0
	1/24/2025	30	29.97	2	W	0.0	22.5	0	22.5	0	0
	4/11/2025	43	30.20	6	NE	0.0	21.6	0	21.4	0	0
7/9/2025	80	29.96	5	N	0.0	20.8	0	19.6	0	0.9	
10/27/2025	53	30.31	4	W	0.0	21.5	0	20.3	0	0.3	

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-3	5/30/2017	56	30.22	6	SE	0.0	20.4	9.7	1.3	0	12.5
	9/8/2017	73	30.04	4	SE	0.0	19.7	4.1	11.7	0	5.0
	12/21/2017	32	30.24	10	NW	0.0	21.6	4.6	7.8	0	9.0
	4/13/2018	73	30.04	4	SE	0.0	19.7	4.1	11.7	0	5.0
	7/31/2018	85	30.16	12	SW	0.0	19.7	7.7	5.2	2	10.4
	10/30/2018	51	29.95	10	SSE	0.0	21.8	13.5	0.2	4	2.0
	1/9/2019	42	29.33	12	S	0.0	21.3	16.0	0.0	4	11.7
	4/12/2019	50	30.10	6	N	0.0	20.9	3.6	0.1	1	11.1
	7/29/2019	109	30.05	2	S	0.0	21.6	15.4	0.6	4	11.9
	10/30/2019	67	30.36	0	---	0.0	20.9	10.7	0.2	4	14.4
	1/15/2020	45	30.13	2	S	0.0	21.2	3.0	12.4	1.1	4.8
	4/23/2020	52	29.95	5	S	0.0	21.3	0	21.2	0	0
	7/30/2020	83	29.86	5	S	0.0	20.6	0.1	20.5	0	0
	10/19/2020	64	30.23	1	S	0.0	21.2	2.7	12.6	2	6.1
	1/5/2021	32	29.75	5	E	0.0	20.1	0	20.1	0	0
	4/7/2021	60	29.91	3	E	0.0	21.7	2.6	13.4	1	3.9
	7/27/2021	86	29.95	9	S	0.0	20.6	0	20.5	0	0
	10/19/2021	52	29.85	10	W	0.0	20.8	15.8	0.3	6	14.1
	1/19/2022	34	29.96	8	S	0.0	22.3	0	22.3	0	0
	4/18/2022	50	29.49	17	SW	0.0	21.2	0	21.1	0	0
	7/19/2022	78	29.67	4	SW	0.0	20.4	0	20.3	0	0.4
	10/5/2022	55	29.85	3	E	0.0	20.9	3.4	13.2	0	5.7
	1/9/2023	35	29.84	3	S	0.0	21.7	0	21.7	0	0
	4/4/2023	50	30.04	2	SE	0.0	22.0	0	21.5	0	0
	7/17/2023	74	29.88	3	S	0.0	20.4	0	20.1	0	0
	10/4/2023	68	30.15	5	NW	0.0	20.6	18.2	2.0	4	14.3
	1/12/2024	43	30.08	5	W	0.0	21.8	21.8	6.4	8	8.2
	4/10/2024	50	30.50	5	SE	0.0	20.3	9.5	1.1	10	8.8
	7/29/2024	63	29.98	3	W	0.0	20.5	2.5	7.0	7	4.5
	10/21/2024	72	30.11	2	SE	0.0	20.6	0	20.0	0	6.7
	1/24/2025	30	29.97	5	W	0.0	22.5	2.9	0.2	14	14.5
	4/11/2025	43	30.20	4	NE	0.0	21.6	6.7	0.1	20	11.5
	7/9/2025	80	29.96	2	N	0.0	20.7	2.8	0.3	6	14.3
	10/27/2025	50	30.31	5	W	0.0	21.5	15.6	0.0	18	15.2

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
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Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-4	5/30/2017	56	30.20	8	SE	0.0	20.1	0	19.6	0	0.2
	9/8/2017	73	30.05	6	SE	0.0	19.2	0	18.5	0	0.4
	12/21/2017	32	30.24	6	NW	0.0	21.6	0	21.0	0	0.5
	4/13/2018	73	30.05	6	SE	0.0	19.2	0	18.5	0	0.4
	7/31/2018	85	30.13	1	S	0.0	19.7	0	19.3	0	0.4
	10/30/2018	55	29.96	14	SSE	0.0	21.7	0	18.8	0	15.3
	1/9/2019	43	29.34	10	S	0.0	21.6	0	18.7	0	2.1
	4/12/2019	47	30.10	5	N	0.0	20.7	0	19.9	0	1.4
	7/29/2019	104	30.03	0	SE	0.0	21.3	0	20.3	0	0.9
	10/30/2019	67	30.37	0	---	0.0	21.0	0	18.7	0	1.2
	1/15/2020	44	30.12	2	S	0.0	21.2	0	20.5	0	1.3
	4/23/2020	53	29.97	1	S	0.0	21.1	0	20.7	0	0.4
	7/30/2020	83	29.87	12	S	0.0	20.6	0	20.6	0	0.8
	10/19/2020	60	30.23	2	S	0.0	21.2	0	20.6	0	0.5
	1/5/2021	32	29.75	2	E	0.0	20.1	0	20.1	0	0
	4/7/2021	60	29.91	5	E	0.0	21.6	0	21.3	0	0.3
	7/27/2021	89	29.60	2	SW	0.0	20.7	0	20.7	0	0.3
	10/19/2021	53	29.85	8	W	0.0	20.9	0	20.2	0	1.5
	1/19/2022	34	29.97	5	S	0.0	21.3	0	21.3	0	0
	4/19/2022	50	29.49	20	SW	0.0	21.0	0	20.0	0	1.8
	7/19/2022	80	29.65	3	SW	0.0	20.4	0	20.4	0	0
	10/5/2022	42	29.85	2	E	0.0	20.9	0	18.5	0	0.5
	1/9/2023	34	29.84	2	S	0.0	21.7	0	21.7	0	0.3
	4/4/2023	49	30.04	3	SE	0.0	22.1	0	22.0	0	0
	7/17/2023	72	29.88	3	S	0.0	20.2	0	20.1	0	0
	10/4/2023	65	30.15	3	NW	0.0	21.3	0	21.0	0	0.2
	1/12/2024	40	30.08	2	W	0.0	21.6	0	19.4	0	0.7
	4/10/2024	50	30.50	4	SE	0.0	20.3	0	20.3	0	0
	7/29/2024	63	29.98	2	W	0.0	20.5	0	20.5	0	0
	10/21/2024	70	30.12	2	SE	0.0	20.6	0	20.2	0	0
	1/24/2025	30	29.94	3	W	0.0	22.5	0	21.1	0	0.9
	4/11/2025	42	30.20	4	NE	0.0	21.6	0	16.5	0	2.8
	7/9/2025	81	29.96	4	N	0.0	20.7	0	18.4	0	1.8
10/27/2025	45	30.29	5	W	0.0	21.8	0	14.2	0	5.5	

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Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-5	1/19/2022	32	30.00	5	S	0.0	21.6	0	21.6	0	0
	4/19/2022	50	29.50	19	SW	0.0	21.4	0	17.9	0	2.0
	1/12/2024	44	30.08	5	W	0.0	21.8	0	21.5	0	0
	4/10/2024	50	30.50	8	SE	0.0	20.3	0	11.8	0	4.1
	7/29/2024	64	29.98	4	W	0.0	20.5	0	19.7	0	3.7
	10/21/2024	72	30.12	2	SE	0.0	20.6	0	4.1	0	9.9
	1/24/2025	30	29.94	2	W	0.0	22.5	0	21.0	0	6.8
	4/11/2025	43	30.20	6	NE	0.0	21.6	0	20.3	0	0
	7/9/2025	81	29.96	4	N	0.0	20.4	0	19.8	0	1.0
	10/27/2025	53	30.31	3	W	0.0	21.8	0	7.5	0	8.3
SG-6	1/19/2022	33	30.00	2	S	0.0	21.8	0	18.8	0	1.7
	4/19/2022	50	29.49	18	SW	0.0	21.0	0	18.0	0	1.8
	7/19/2022	78	29.65	5	SW	0.0	20.4	0	16.2	0	4.7
	10/5/2022	46	29.85	4	E	0.0	21.0	0	15.8	0	6.3
	1/9/2023	35	29.84	3	S	0.0	21.8	0	20.2	0	1.6
	4/4/2023	49	30.04	4	SE	0.0	22.0	0	21.5	0	0.6
	7/17/2023	73	29.88	3	S	0.0	20.4	0	19.1	0	0.7
	10/4/2023	68	30.15	3	NW	0.0	20.8	0	18.0	0	2.5
	1/12/2024	41	30.08	5	W	0.0	21.9	0	19.5	0	1.5
	4/10/2024	50	30.50	4	SE	0.0	20.3	0	19.1	0	1.0
	7/29/2024	64	29.98	4	W	0.0	20.5	0	17.3	0	3.8
	10/21/2024	72	30.12	6	SE	0.0	20.3	0	19.9	0	0.6
	1/24/2025	29	29.94	3	W	0.0	22.5	0	21.1	0	1.6
	4/11/2025	40	30.20	4	NE	0.0	21.6	0	20.4	0	1.2
	7/9/2025	81	29.96	3	N	0.0	20.5	0	17.8	0	2.7
10/27/2025	48	30.31	4	W	0.0	21.8	0	17.9	0	4.0	

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Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient					Soil Gas				
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-7	1/19/2022	34	29.97	5	S	0.0	22.3	0	20.8	0	1.3
	4/19/2022	50	29.49	20	SW	0.0	21.0	0	18.3	0	1.7
	7/19/2022	77	29.65	4	SW	0.0	20.5	0	19.9	0	0.7
	10/6/2022	42	29.85	2	E	0.0	21.0	0	12.0	0	9.0
	1/9/2023	34	29.84	3	S	0.0	21.7	0	18.7	0	2.2
	4/4/2023	49	30.04	2	SE	0.0	22.1	0	19.8	0	1.6
	7/17/2023	73	29.88	3	S	0.0	20.2	0	19.2	0	0.6
	10/4/2023	65	30.15	2	NW	0.0	21.0	0	12.4	0	7.5
	1/12/2024	41	30.08	2	W	0.0	21.6	0	18.6	0	2.8
	4/10/2024	50	30.50	4	SE	0.0	20.3	0	17.3	0	2.3
	7/29/2024	63	29.98	2	W	0.0	20.5	0	13.9	0	6.3
	10/21/2024	72	30.12	3	SE	0.0	20.5	0	20.0	0	1.4
	1/24/2025	29	29.94	4	W	0.0	22.3	0	20.2	0	1.8
	4/11/2025	42	30.20	5	NE	0.0	21.6	0	19.2	0	1.7
	7/9/2025	81	29.96	2	N	0.0	20.4	0	16.0	0	4.0
10/27/2025	45	30.29	3	W	0.0	21.8	0	17.1	0	4.1	
SG-8	1/19/2022	33	30.00	5	S	0.0	21.8	3.2	0.5	0	6.0
	4/19/2022	50	29.49	15	SW	0.0	21.4	4.4	0.1	0	7.6
	7/19/2022	85	29.67	5	SW	0.0	20.4	0	5.7	0	10.1
	10/6/2022	50	29.85	3	E	0.0	20.9	1.9	0.2	0	12.1
	1/9/2023	36	29.84	2	S	0.0	21.7	0.3	20.2	0	4.6
	4/4/2023	52	30.04	2	SE	0.0	22.0	0	11.5	0	3.4
	7/17/2023	76	29.88	3	S	0.0	20.4	4.7	0.1	0	11.5
	10/4/2023	68	30.15	6	NW	0.0	20.5	16.3	0.1	0	9.3
	1/12/2024	44	30.08	5	W	0.0	21.7	16.5	0.1	0	4.8
	4/10/2024	50	30.50	2	SE	0.0	20.3	5	0.7	1	5.1
	7/29/2024	64	29.98	3	W	0.0	20.5	0	6.8	0	11.1
	10/21/2024	70	30.12	5	SE	0.0	20.5	3.8	0.2	0	9.7
	1/24/2025	29	29.94	3	W	0.0	22.3	10.0	0.9	0	8.4
	4/11/2025	40	30.20	2	NE	0.0	21.6	6.3	0.2	0	8.9
	7/9/2025	81	29.96	2	N	0.0	20.4	0	11.9	0	7.4
10/27/2025	53	30.31	3	W	0.0	21.8	4.2	0.1	0	9.8	

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
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Location	Date	Ambient				Soil Gas						
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)	
SG-3A	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	20.1	0	0.7	
	7/31/2018	85	30.16	12	SW	0.0	19.9	0	17.0	0	3.3	
	10/30/2018	51	29.96	7	SE	0.0	21.4	0	13.5	0	6.5	
	1/9/2019	42	29.33	10	S	0.0	21.2	0	17.0	0	3.9	
	4/12/2019	46	30.20	9	N	0.0	21.2	0	19.4	1	2.7	
	7/29/2019	101	30.04	5	S	0.0	21.9	0.7	0.6	0	14.5	
	10/30/2019	67	30.37	0	---	0.0	20.2	0	7.2	0	9.4	
	1/15/2020	44	30.13	5	S	0.0	21.2	0	19.8	0	2.2	
	4/23/2020	51	29.97	2	S	0.0	21.2	0	20.9	0.5	0.2	
	7/30/2020	84	29.86	8	S	0.0	20.4	0	20.0	0	4.1	
	10/19/2020	65	30.23	2	S	0.0	20.9	0	19.7	0	6.4	
	1/5/2021	32	29.75	3	E	0.0	20.1	0	17.3	0	2.9	
	4/7/2021	58	29.91	0	---	0.0	20.1	0	19.3	0	1.8	
	7/27/2021	84	29.95	8	SE	0.0	20.8	0	20.2	0	3.9	
	10/19/2021	52	29.85	9	W	0.0	20.9	0	18.6	0	3.5	
	1/19/2022	39	29.96	6	S	0.0	20.9	0	18.9	0	2.0	
	4/19/2022	50	29.49	16	SW	0.0	21.0	0	17.6	0	5.1	
7/19/2022	80	29.67	4	SW	0.0	20.4	0	17.0	0	8.5		
10/5/2022	55	29.85	5	E	0.0	21.0	0	19.8	0	6.0		
1/9/2023	36	29.84	2	S	0.0	21.7	0	21.0	0	9.9		
4/4/2023	50	30.05	2	SE	0.0	22.0	0	18.7	0	4.6		
7/17/2023	70	29.88	4	S	0.0	20.2	0	17.6	0	8.3		
Destroyed												
SG-3B	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	18.2	0	2.6	
	7/31/2018	85	30.16	12	SW	0.0	19.9	0	10.3	0	8.6	
	10/30/2018	51	29.95	7	SSE	0.0	21.5	0	15.3	0	6.0	
	1/9/2019	42	29.33	15	S	0.0	21.1	0	15.9	0	5.0	
	4/12/2019	48	30.20	7	NE	0.0	21.1	0	17.2	1	3.4	
	7/29/2019	88	30.04	4	S	0.0	21.9	0	Inaccessible - Dense Vegetation			
	10/30/2019	67	30.34	0	---	0.0	20.6	0	7.4	0	10.9	
	1/15/2020	44	30.13	5	S	0.0	21.2	0	18.1	0	2.9	
	4/23/2020	51	29.97	5	S	0.0	21.2	0	20.7	0	0.6	
	7/30/2020	84	29.86	10	S	0.0	20.4	0	20.1	0	0.9	
	10/19/2020	65	30.23	3	S	0.0	20.9	0	20.6	0	3.3	
	1/5/2021	32	29.75	5	E	0.0	20.1	0	16.6	0	3.5	
	4/7/2021	58	29.91	3	E	0.0	21.3	0	17.0	0	2.8	
	7/27/2021	84	29.95	8	SE	0.0	20.2	0	20.1	0	4.8	
	10/19/2021	52	29.85	10	W	0.0	20.9	0	18.8	0	6.2	
	11/1/2025					Replaced						
	SG-3C	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	17.6	0	3.3
7/31/2018		85	30.16	12	SW	0.0	19.8	0	12.3	0	7.9	
10/30/2018		52	29.95	9	SSE	0.0	21.4	0	21.6	0	0.1	
1/9/2019		42	29.34	12	S	0.0	21.2	0	20.0	0	3.0	
4/12/2019		48	30.20	7	N	0.0	20.9	0	21.2	0	0.2	
7/29/2019		88	30.04	4	S	0.0	21.9	0	Inaccessible - Dense Vegetation			
10/30/2019		67	30.37	0	---	0.0	20.7	0	20.9	0	0.1	
1/15/2020		44	30.12	2	S	0.0	21.2	0	21.0	0	0.1	
4/23/2020		52	29.97	2	S	0.0	21.2	0	20.4	0	2.5	
7/30/2020		85	29.87	7	S	0.0	20.4	0	19.8	0	2.0	
10/19/2020		65	30.23	3	S	0.0	20.9	0	20.7	0	1.8	
1/5/2021		33	29.75	3	E	0.0	20.1	0	18.6	0	2.1	
4/7/2021		60	29.91	6	E	0.0	21.3	0	19.0	0	2.6	
7/27/2021		86	29.95	9	S	0.0	20.7	0	20.3	0	3.0	
10/19/2021		52	29.85	7	W	0.0	20.9	0	20.0	0	1.7	
1/19/2022		38	29.96	4	S	0.0	20.9	0	19.1	0	1.8	
4/19/2022		50	29.49	18	SW	0.0	21.4	0	19.9	0	2.4	
7/19/2022	80	29.67	3	SW	0.0	20.4	0	18.5	0	3.0		
10/5/2022	56	29.85	5	E	0.0	21.0	0	20.4	0	1.6		
1/9/2023	36	29.84	3	S	0.0	21.7	0	20.6	0	6.6		
Destroyed												

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-3D	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	20.7	0	0.8
	7/31/2018	85	30.16	12	SW	0.0	19.2	0	18.1	0	1.1
	10/30/2018	52	29.95	9	SE	0.0	21.9	0	20.1	0	1.7
	1/9/2019	41	29.34	10	S	0.0	21.2	0	19.5	0	1.0
	4/12/2019	50	30.30	6	N	0.0	20.8	0	19.9	0	1.3
	7/29/2019	88	30.04	4	S	0.0	21.9	0	20.6	0	1.2
	10/30/2019	67	30.37	0	---	0.0	21.0	0	19.4	0	1.2
	1/15/2020	45	30.13	2	S	0.0	21.2	0	20.6	0	1.0
	4/23/2020	52	29.95	3	S	0.0	21.3	0	20.1	0	1.2
	7/30/2020	85	29.87	5	S	0.0	20.4	0	19.6	0	1.7
	10/19/2020	66	30.23	3	S	0.0	20.9	0	20.2	0	1.0
	1/5/2021	33	29.75	6	E	0.0	20.4	0	19.9	0	1.0
	4/7/2021	60	29.91	5	E	0.0	21.8	0	20.6	0	0.8
	7/27/2021	86	29.95	9	S	0.0	20.5	0	20.2	0	0.7
	10/19/2021	52	29.85	10	W	0.0	20.8	0	19.2	0	2.0
	1/19/2022	39	29.96	5	S	0.0	20.9	0	20.2	0	0.6
	4/19/2022	50	29.49	20	SW	0.0	21.1	0	20.4	0	1.9
	7/19/2022	80	29.67	5	SW	0.0	20.4	0	19.7	0	2.1
	10/5/2022	56	29.85	4	E	0.0	21.0	0	20.1	0	1.8
	1/9/2023	36	29.84	2	S	0.0	21.7	0	19.1	0	0.9
	4/4/2023	50	30.05	2	SE	0.0	22.0	0	20.2	0	0.7
	7/17/2023	70	29.88	4	S	0.0	20.2	0	18.8	0	1.5
	10/4/2023	75	30.15	3	NW	0.0	20.5	0	19.2	0	3.3
	1/12/2024	44	30.08	6	W	0.0	21.6	0	18.4	0	2.6
	4/10/2024	50	30.50	5	SE	0.0	20.3	5	19.8	0	6.8
	7/29/2024	64	29.98	4	W	0.0	20.5	0	18.4	0	2.9
	10/21/2024	70	30.11	3	SE	0.0	20.5	0	20.2	0	2.0
	1/24/2025	30	29.94	3	W	0.0	22.3	0	20.8	0	0.6
	4/11/2025	42	30.20	2	NE	0.0	21.6	0	21.1	0	1.8
	7/9/2025	80	29.96	2	N	0.0	20.7	0	19.6	0	1.1
	10/27/2025	50	30.31	4	W	0.0	21.5	0	20.1	0	1.9

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-3E	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	14.9	0	5.4
	7/31/2018	85	30.16	12	SW	0.0	19.2	0	13.7	0	5.2
	10/30/2018	54	29.94	12	SSE	0.0	21.7	0	13.0	0	7.4
	1/9/2019	41	29.33	10	S	0.0	21.3	0	14.4	0	4.8
	4/12/2019	50	30.30	5	N	0.0	20.8	0	15.1	0	4.8
	7/29/2019	102	30.04	1	S	0.0	21.5	0	13.6	0	5.4
	10/30/2019	67	30.80	0	---	0.0	20.9	0	10.5	0	9.1
	1/15/2020	45	30.13	0	---	0.0	21.2	0	19.5	0	2.0
	4/23/2020	52	29.95	3	S	0.0	21.4	0	20.3	0	1.1
	7/30/2020	85	29.87	5	S	0.0	20.4	0	19.6	0	3.6
	10/19/2020	66	30.23	2	S	0.0	20.9	0	20.3	0	4.9
	1/5/2021	33	29.75	4	E	0.0	20.6	0	17.8	0	3.3
	4/7/2021	60	29.91	5	E	0.0	21.6	0	17.4	0	2.7
	7/27/2021	86	29.95	9	S	0.0	20.5	0	20.1	0	0
	10/19/2021	53	29.85	7	W	0.0	20.9	0	18.8	0	5.1
	1/19/2022	38	29.96	5	S	0.0	20.7	0	18.6	0	2.2
	4/19/2022	50	29.49	20	SW	0.0	21.1	0	14.7	0	5.2
	7/19/2022	80	29.67	8	SW	0.0	20.4	0	16.9	0	5.5
	10/5/2022	54	29.85	3	E	0.0	21.0	0	15.9	0	4.3
	1/9/2023	36	29.84	2	S	0.0	21.7	0	19.7	0	3.1
4/4/2023	50	30.05	2	SE	0.0	22.0	0	19.4	0	3.8	
7/17/2023	70	29.88	3	S	0.0	20.2	0	16.2	0	2.4	
Destroyed											
SG-3F	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	19.4	0	2.2
	7/31/2018	85	30.16	12	SW	0.0	19.3	0	12.9	1	5.9
	10/30/2018	53	29.94	14	SE	0.0	21.8	0	5.2	0	12.8
	1/9/2019	41	29.33	12	S	0.0	21.3	0	19.0	0	5.1
	4/12/2019	49	30.30	4	NE	0.0	20.8	0	14.3	0	5.6
	7/29/2019	102	30.40	1	S	0.0	21.4	0.1	9	0	11.8
	10/30/2019	67	30.37	0	---	0.0	20.9	0	8.7	0	10.3
	1/15/2020	45	30.13	2	S	0.0	21.2	0	15.2	0	3.5
	4/23/2020	52	29.94	1	S	0.0	21.5	0	12.1	0	7.9
	7/30/2020	85	29.87	10	S	0.0	20.4	0	14.3	0	6.4
	10/19/2020	66	30.23	2	S	0.0	20.9	0	16.5	0	9.0
	1/5/2021	33	29.75	5	E	0.0	20.5	0	15.0	0	5.7
	4/7/2021	60	29.91	3	E	0.0	21.9	0	14.8	0	5.0
	7/27/2021	86	29.95	9	S	0.0	20.9	0	16.9	0	9.6
	10/19/2021	53	29.85	7	W	0.0	20.9	0	16.2	0	7.8
	1/19/2022	38	29.96	5	S	0.0	20.7	0	15.9	0	3.1
	4/19/2022	50	29.50	18	SW	0.0	21.1	0	19.0	0	2.1
	7/19/2022	80	29.67	5	SW	0.0	20.4	0	17.4	0	8.7
	10/5/2022	54	29.85	5	E	0.0	21.0	0	14.2	0	7.4
	1/9/2023	36	29.84	2	S	0.0	21.7	0	15.8	0	6.2
Destroyed											

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

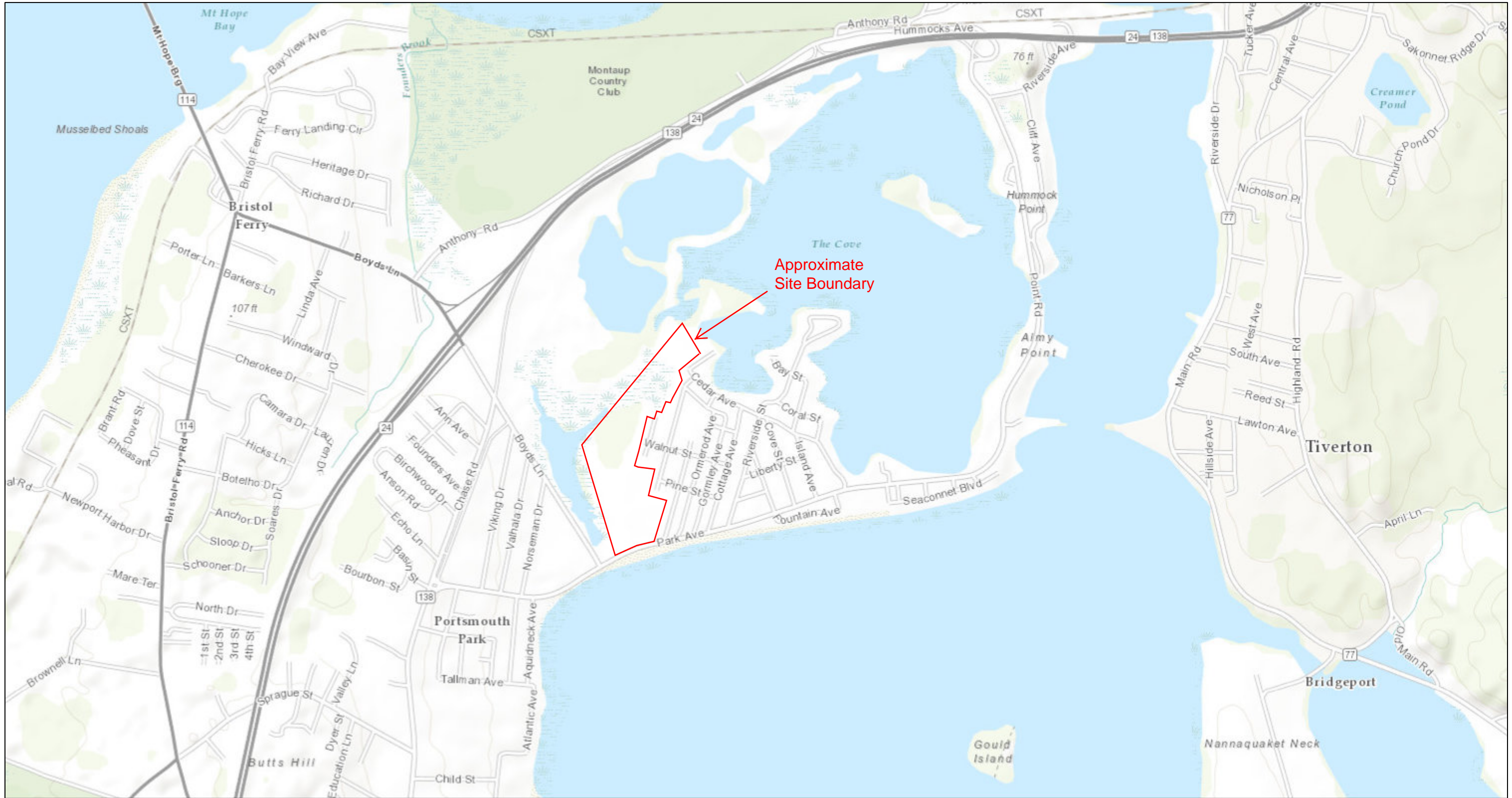
Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

Location	Date	Ambient				Soil Gas					
		Temperature (°F)	Barometric Pressure (Inches Hg)	Wind Velocity (Miles Per Hour)	Wind Direction	Ambient Methane (CH ₄) (%)	Ambient Oxygen (O ₂) (%)	Soil Gas Methane (CH ₄) (%)	Soil Gas Oxygen (O ₂) (%)	Soil Gas Hydrogen Sulfide (H ₂ S) (ppm)	CO ₂ (%)
SG-3G	4/13/2018	45	29.92	6	SSW	0.0	21.9	0	20.1	0	1.4
	7/31/2018	85	30.16	12	SW	0.0	19.6	0	16.3	0	1.8
	7/31/2018	85	30.16	12	SW	0.0	19.6	0	16.3	0	1.8
	10/30/2018	53	29.94	14	SE	0.0	21.6	0	19.1	0	2.1
	1/9/2019	41	29.33	10	S	0.0	21.2	0	18.9	0	1.2
	4/12/2019	49	30.30	4	N	0.0	20.6	0	19.8	0	1.7
	7/29/2019	88	30.04	4	S	0.0	21.9	0	20.9	0	1.2
	10/30/2019	67	30.37	0	---	0.0	20.9	0	18.1	0	2.8
	1/15/2020	45	30.13	2	S	0.0	21.2	0	18.7	0	1.5
	4/23/2020	52	29.94	1	S	0.0	21.5	0	18.6	0	1.9
	7/30/2020	85	29.87	8	S	0.0	20.4	0	16.9	0	2.2
	10/19/2020	66	30.23	4	S	0.0	20.5	0	16.4	0	1.6
	1/5/2021	33	29.75	6	E	0.0	20.5	0	19.2	0	1.2
	4/7/2021	60	29.91	4	E	0.0	21.9	0	20.1	0	1.3
	7/27/2021	86	29.95	9	S	0.0	20.6	0	15.4	0	1.8
	10/19/2021	53	29.85	8	W	0.0	20.9	0	17.6	0	2.0
	1/19/2022	38	29.96	6	S	0.0	20.7	0	20.2	0	1.0
	4/19/2022	50	29.50	10	SW	0.0	21.1	0	19.6	0	1.0
	7/19/2022	80	29.67	5	SW	0.0	20.4	0	18.0	0	3.3
	10/5/2022	54	29.85	5	E	0.0	21.0	0	19.7	0	2.6
	1/9/2023	36	29.84	2	S	0.0	21.7	0	17.6	0	1.3
	4/4/2023	50	30.05	2	SE	0.0	22.0	0	19.1	0	1.1
	7/17/2023	72	29.88	2	S	0.0	20.2	0	18.4	0	3.9
	10/4/2023	75	30.15	3	NW	0.0	20.5	0	17.8	0	2.3
	1/12/2024	44	30.08	8	W	0.0	21.6	0	16.6	0	2.5
	4/10/2024	50	30.50	4	SE	0.0	20.3	0	18.9	0	1.2
	7/29/2024	64	29.98	4	W	0.0	20.5	0	17.9	0	1.8
	10/21/2024	70	30.11	5	SE	0.0	20.5	0	18.1	0	1.6
	1/24/2025	30	29.94	3	W	0.0	22.3	0	19.9	0	2.9
	4/11/2025	42	30.20	3	NE	0.0	21.6	0	17.4	0	1.8
7/9/2025	80	29.96	2	N	0.0	20.7	0	16.3	0	1.4	
10/27/2025	50	30.31	4	W	0.0	21.5	0	20.2	0	1.3	

Methane - Lower Explosive Limit (LEL) = 5%, Upper Explosive Limit (UEL) = 15%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

FIGURES

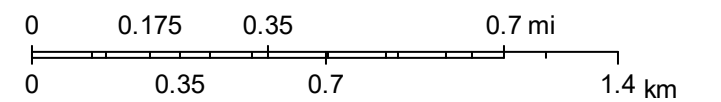
RIDEM Environmental Resource Map



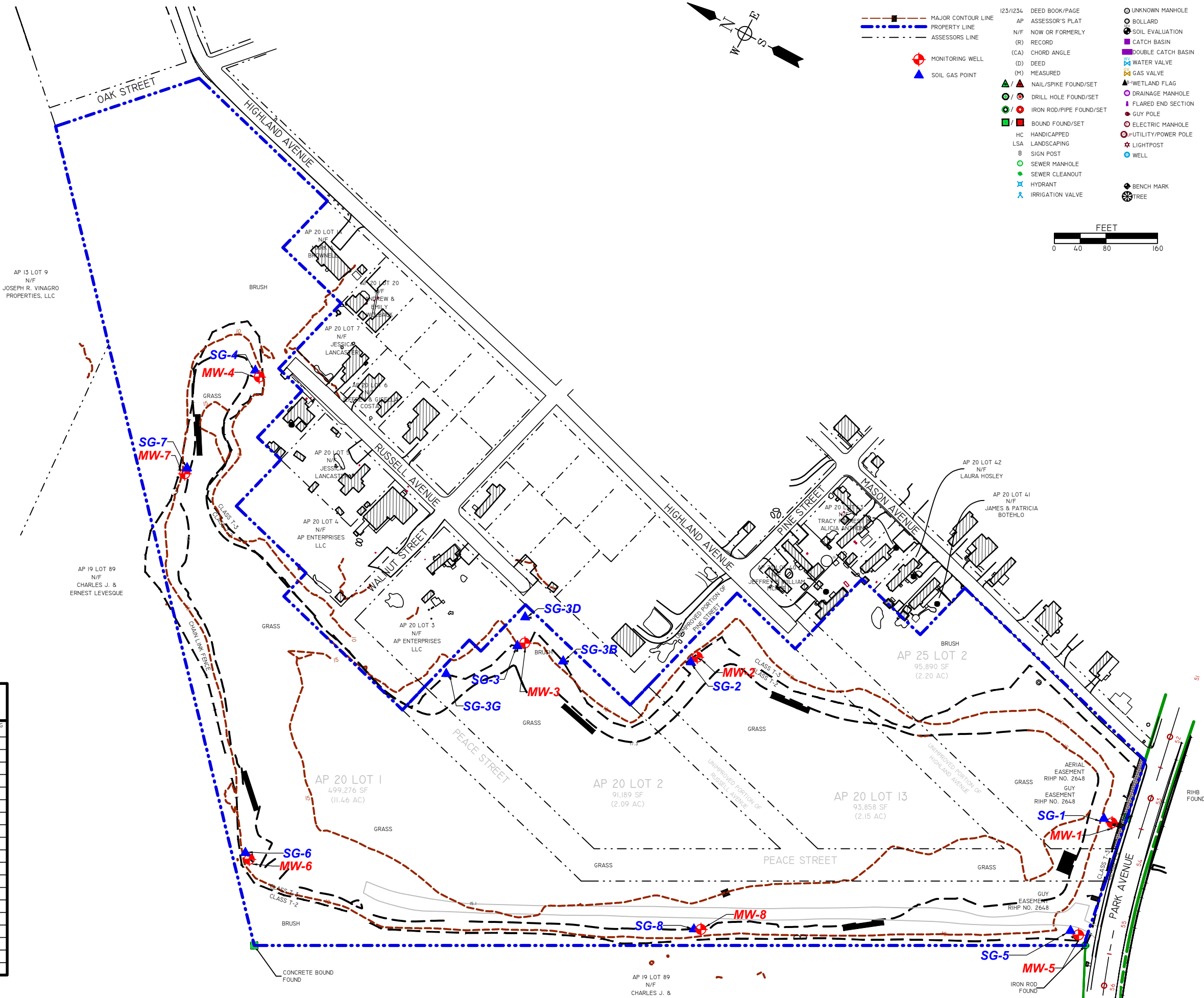
July 7, 2017

Figure 1: Site Locus Map

1:18,056

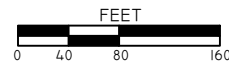


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS



LEGEND

- MAJOR CONTOUR LINE
- PROPERTY LINE
- ASSESSOR'S LINE
- MONITORING WELL
- SOIL GAS POINT
- 123/1234 DEED BOOK/PAGE
- AP ASSESSOR'S PLAT
- N/F NOW OR FORMERLY
- (R) RECORD
- (CA) CHORD ANGLE
- (D) DEED
- (M) MEASURED
- ▲ NAIL/SPIKE FOUND/SET
- DRILL HOLE FOUND/SET
- IRON ROD/PIPE FOUND/SET
- BOUND FOUND/SET
- HC HANDICAPPED
- LSA LANDSCAPING
- SIGN POST
- SEWER MANHOLE
- SEWER CLEANOUT
- HYDRANT
- IRRIGATION VALVE
- UNKNOWN MANHOLE
- BOLLARD
- SOIL EVALUATION
- CATCH BASIN
- DOUBLE CATCH BASIN
- WATER VALVE
- GAS VALVE
- WETLAND FLAG
- DRAINAGE MANHOLE
- FLARED END SECTION
- GUY POLE
- ELECTRIC MANHOLE
- UTILITY/POWER POLE
- LIGHTPOST
- WELL
- BENCH MARK
- TREE



NOTES:

1. Monitoring Wells MW-1 through MW-4 and Soil Gas Points SG-1 through SG-4 installed on 4/25/2017
2. Soil Gas Points SG-3A through SG-3G installed on 4/13/2018. SG-3B was replaced in 11/2025.
3. Monitoring Wells MW-5 through MW-8 and Soil Gas Points SG-5 through SG-8 installed on 11/11/2021
4. Figure based on "As-Built Plan" (DiPrete Engineering, 11/26/2025)

MONITORING WELL AND SOIL GAS POINT ELEVATIONS		
WELL NUMBER	GROUND ELEVATION	TOP OF CASING ELEVATION
MW-1	6.2	9.1
MW-2	12.3	16.5
MW-3	13.2	16.7
MW-4	11.7	14.2
MW-5	6.6	9.7
MW-6	12.2	15.2
MW-7	11.9	14.8
MW-8	14.3	17.5
SG-1	7.1	7.6
SG-2	12.1	16.3
SG-3	13.1	16.4
SG-3B	6.4	15.1
SG-3D	8.6	11.5
SG-3G	8.1	10.5
SG-4	12.2	14.6
SG-5	6.6	9.3
SG-6	12.1	9.3
SG-7	11.9	14.9
SG-8	14.3	17.2

ADDRESS:
Former Portsmouth Landfill
Park Ave
Portsmouth, RI

PREPARED FOR:
AP Enterprise LLC
28 Teal Drive
Wakefield, RI 02879

FIGURE TITLE:
Site Plan



DRAWN BY: AK/BM/AL	FIGURE NO. 2
CHECKED BY: AK/PDC	
PROJECT NO. 301000351	
UPDATED: 12/9/2025	

APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL RESULTS



ANALYTICAL REPORT

PREPARED FOR

Attn: Adrienne Kee
Atlas Technical Consultants LLC
400 Reservoir Ave
Suite 2C
Providence, Rhode Island 02907

Generated 11/4/2025 1:28:20 AM

JOB DESCRIPTION

Portsmouth Landfill

JOB NUMBER

620-30648-1

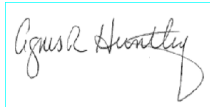
Eurofins Rhode Island

Job Notes

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Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)267-4374



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Definitions/Glossary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Atlas Technical Consultants LLC
Project: Portsmouth Landfill

Job ID: 620-30648-1

Job ID: 620-30648-1

Eurofins Rhode Island

Job Narrative 620-30648-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/28/2025 3:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 620-55246 exhibited % difference of > 20% for the following analytes: Vinyl chloride; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260D: The laboratory control sample (LCS) for analytical batch 620-55246 recovered outside control limits for the following analytes: Diethyl ether. This analyte was biased high in the LCS and was not detected in the associated samples. According to 8260D requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-55318 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260D requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260D: The large number of analytes included in the continuing calibration verification ((CCVIS 620-55318/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): Dichlorodifluoromethane and Vinyl chloride.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Rhode Island

Detection Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-1

Lab Sample ID: 620-30648-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	18		4.0		ug/L	1		6020B	Total/NA
Copper	10		4.0		ug/L	1		6020B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 620-30648-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	11		1.0		ug/L	1		8260D	Total/NA
Arsenic	3.1		2.0		ug/L	1		6020B	Total/NA
Barium	150		4.0		ug/L	1		6020B	Total/NA
Copper	15		4.0		ug/L	1		6020B	Total/NA
Lead	8.1		1.2		ug/L	1		6020B	Total/NA
Zinc	82		16		ug/L	1		6020B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 620-30648-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		2.0		ug/L	1		6020B	Total/NA
Barium	27		4.0		ug/L	1		6020B	Total/NA
Cobalt	14		4.0		ug/L	1		6020B	Total/NA
Copper	5.6		4.0		ug/L	1		6020B	Total/NA
Lead	1.5		1.2		ug/L	1		6020B	Total/NA
Nickel	12		4.0		ug/L	1		6020B	Total/NA
Zinc	83		16		ug/L	1		6020B	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 620-30648-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	42		4.0		ug/L	1		6020B	Total/NA
Cadmium	3.6		2.0		ug/L	1		6020B	Total/NA
Copper	140		4.0		ug/L	1		6020B	Total/NA
Lead	4.0		1.2		ug/L	1		6020B	Total/NA
Nickel	37		4.0		ug/L	1		6020B	Total/NA
Zinc	1300		16		ug/L	1		6020B	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 620-30648-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	57		4.0		ug/L	1		6020B	Total/NA
Copper	14		4.0		ug/L	1		6020B	Total/NA
Lead	6.2		1.2		ug/L	1		6020B	Total/NA
Zinc	38		16		ug/L	1		6020B	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 620-30648-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.8		1.0		ug/L	1		8260D	Total/NA
Isopropylbenzene	1.1		1.0		ug/L	1		8260D	Total/NA
Barium	190		4.0		ug/L	1		6020B	Total/NA
Copper	33		4.0		ug/L	1		6020B	Total/NA
Lead	8.8		1.2		ug/L	1		6020B	Total/NA
Nickel	21		4.0		ug/L	1		6020B	Total/NA
Zinc	210		16		ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Detection Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-7

Lab Sample ID: 620-30648-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		2.0		ug/L	1		6020B	Total/NA
Barium	120		4.0		ug/L	1		6020B	Total/NA
Copper	18		4.0		ug/L	1		6020B	Total/NA
Lead	8.2		1.2		ug/L	1		6020B	Total/NA
Nickel	9.8		4.0		ug/L	1		6020B	Total/NA
Zinc	270		16		ug/L	1		6020B	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 620-30648-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0		ug/L	1		8260D	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260D	Total/NA
Vinyl chloride	3.0		1.0		ug/L	1		8260D	Total/NA
Arsenic	8.3		2.0		ug/L	1		6020B	Total/NA
Barium	54		4.0		ug/L	1		6020B	Total/NA
Cobalt	7.4		4.0		ug/L	1		6020B	Total/NA
Copper	5.1		4.0		ug/L	1		6020B	Total/NA
Lead	2.2		1.2		ug/L	1		6020B	Total/NA
Nickel	5.2		4.0		ug/L	1		6020B	Total/NA
Zinc	78		16		ug/L	1		6020B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 620-30648-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-1

Lab Sample ID: 620-30648-1

Date Collected: 10/27/25 15:05

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 17:06	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 17:06	1
Chloroethane	ND		2.0		ug/L			10/30/25 17:06	1
Chloroform	ND		1.0		ug/L			10/30/25 17:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 17:06	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 17:06	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 17:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 17:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 17:06	1
Isopropylbenzene	ND		1.0		ug/L			10/30/25 17:06	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 17:06	1
Trichloroethene	ND		1.0		ug/L			10/30/25 17:06	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 17:06	1
Diethyl ether	ND		1.0		ug/L			10/30/25 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130					10/30/25 17:06	1
Toluene-d8 (Surr)	99		70 - 130					10/30/25 17:06	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					10/30/25 17:06	1
Dibromofluoromethane (Surr)	108		70 - 130					10/30/25 17:06	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Arsenic	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Barium	18		4.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:11	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Cobalt	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Copper	10		4.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Lead	ND		1.2		ug/L		10/28/25 17:14	10/29/25 20:11	1
Nickel	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:11	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:11	1
Zinc	ND		16		ug/L		10/28/25 17:14	10/29/25 20:11	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-2

Lab Sample ID: 620-30648-2

Date Collected: 10/27/25 13:05

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 17:29	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 17:29	1
Chloroethane	ND		2.0		ug/L			10/30/25 17:29	1
Chloroform	ND		1.0		ug/L			10/30/25 17:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 17:29	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 17:29	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 17:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 17:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 17:29	1
Isopropylbenzene	11		1.0		ug/L			10/30/25 17:29	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 17:29	1
Trichloroethene	ND		1.0		ug/L			10/30/25 17:29	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 17:29	1
Diethyl ether	ND		1.0		ug/L			10/30/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130					10/30/25 17:29	1
Toluene-d8 (Surr)	99		70 - 130					10/30/25 17:29	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130					10/30/25 17:29	1
Dibromofluoromethane (Surr)	107		70 - 130					10/30/25 17:29	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Arsenic	3.1		2.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Barium	150		4.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:19	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Cobalt	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Copper	15		4.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Lead	8.1		1.2		ug/L		10/28/25 17:14	10/29/25 20:19	1
Nickel	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:19	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:19	1
Zinc	82		16		ug/L		10/28/25 17:14	10/29/25 20:19	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-3

Lab Sample ID: 620-30648-3

Date Collected: 10/27/25 12:14

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/31/25 14:00	1
Chlorobenzene	ND		1.0		ug/L			10/31/25 14:00	1
Chloroethane	ND		2.0		ug/L			10/31/25 14:00	1
Chloroform	ND		1.0		ug/L			10/31/25 14:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/31/25 14:00	1
Dichlorodifluoromethane	ND	*+	2.0		ug/L			10/31/25 14:00	1
1,1-Dichloroethane	ND		1.0		ug/L			10/31/25 14:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/31/25 14:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/31/25 14:00	1
Isopropylbenzene	ND		1.0		ug/L			10/31/25 14:00	1
Tetrachloroethene	ND		1.0		ug/L			10/31/25 14:00	1
Trichloroethene	ND		1.0		ug/L			10/31/25 14:00	1
Vinyl chloride	ND		1.0		ug/L			10/31/25 14:00	1
Diethyl ether	ND		1.0		ug/L			10/31/25 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130					10/31/25 14:00	1
Toluene-d8 (Surr)	99		70 - 130					10/31/25 14:00	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130					10/31/25 14:00	1
Dibromofluoromethane (Surr)	108		70 - 130					10/31/25 14:00	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Arsenic	2.9		2.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Barium	27		4.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:22	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Cobalt	14		4.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Copper	5.6		4.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Lead	1.5		1.2		ug/L		10/28/25 17:14	10/29/25 20:22	1
Nickel	12		4.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:22	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:22	1
Zinc	83		16		ug/L		10/28/25 17:14	10/29/25 20:22	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-4

Lab Sample ID: 620-30648-4

Date Collected: 10/27/25 09:55

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 18:12	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 18:12	1
Chloroethane	ND		2.0		ug/L			10/30/25 18:12	1
Chloroform	ND		1.0		ug/L			10/30/25 18:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 18:12	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 18:12	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 18:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 18:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 18:12	1
Isopropylbenzene	ND		1.0		ug/L			10/30/25 18:12	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 18:12	1
Trichloroethene	ND		1.0		ug/L			10/30/25 18:12	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 18:12	1
Diethyl ether	ND		1.0		ug/L			10/30/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130					10/30/25 18:12	1
Toluene-d8 (Surr)	100		70 - 130					10/30/25 18:12	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					10/30/25 18:12	1
Dibromofluoromethane (Surr)	109		70 - 130					10/30/25 18:12	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Arsenic	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Barium	42		4.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:25	1
Cadmium	3.6		2.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Cobalt	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Copper	140		4.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Lead	4.0		1.2		ug/L		10/28/25 17:14	10/29/25 20:25	1
Nickel	37		4.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:25	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:25	1
Zinc	1300		16		ug/L		10/28/25 17:14	10/29/25 20:25	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-5

Lab Sample ID: 620-30648-5

Date Collected: 10/27/25 14:20

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 18:50	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 18:50	1
Chloroethane	ND		2.0		ug/L			10/30/25 18:50	1
Chloroform	ND		1.0		ug/L			10/30/25 18:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 18:50	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 18:50	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 18:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 18:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 18:50	1
Isopropylbenzene	ND		1.0		ug/L			10/30/25 18:50	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 18:50	1
Trichloroethene	ND		1.0		ug/L			10/30/25 18:50	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 18:50	1
Diethyl ether	ND	*+	1.0		ug/L			10/30/25 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130					10/30/25 18:50	1
Toluene-d8 (Surr)	96		70 - 130					10/30/25 18:50	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					10/30/25 18:50	1
Dibromofluoromethane (Surr)	91		70 - 130					10/30/25 18:50	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Arsenic	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Barium	57		4.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:27	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Cobalt	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Copper	14		4.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Lead	6.2		1.2		ug/L		10/28/25 17:14	10/29/25 20:27	1
Nickel	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:27	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:27	1
Zinc	38		16		ug/L		10/28/25 17:14	10/29/25 20:27	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-6

Lab Sample ID: 620-30648-6

Date Collected: 10/27/25 11:35

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 19:14	1
Chlorobenzene	1.8		1.0		ug/L			10/30/25 19:14	1
Chloroethane	ND		2.0		ug/L			10/30/25 19:14	1
Chloroform	ND		1.0		ug/L			10/30/25 19:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 19:14	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 19:14	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 19:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 19:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 19:14	1
Isopropylbenzene	1.1		1.0		ug/L			10/30/25 19:14	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 19:14	1
Trichloroethene	ND		1.0		ug/L			10/30/25 19:14	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 19:14	1
Diethyl ether	ND	*+	1.0		ug/L			10/30/25 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		10/30/25 19:14	1
Toluene-d8 (Surr)	96		70 - 130		10/30/25 19:14	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/30/25 19:14	1
Dibromofluoromethane (Surr)	93		70 - 130		10/30/25 19:14	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Arsenic	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Barium	190		4.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:30	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Cobalt	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Copper	33		4.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Lead	8.8		1.2		ug/L		10/28/25 17:14	10/29/25 20:30	1
Nickel	21		4.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:30	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:30	1
Zinc	210		16		ug/L		10/28/25 17:14	10/29/25 20:30	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-7

Lab Sample ID: 620-30648-7

Date Collected: 10/27/25 10:47

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 19:39	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 19:39	1
Chloroethane	ND		2.0		ug/L			10/30/25 19:39	1
Chloroform	ND		1.0		ug/L			10/30/25 19:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 19:39	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 19:39	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 19:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 19:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 19:39	1
Isopropylbenzene	ND		1.0		ug/L			10/30/25 19:39	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 19:39	1
Trichloroethene	ND		1.0		ug/L			10/30/25 19:39	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 19:39	1
Diethyl ether	ND	*+	1.0		ug/L			10/30/25 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130					10/30/25 19:39	1
Toluene-d8 (Surr)	95		70 - 130					10/30/25 19:39	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					10/30/25 19:39	1
Dibromofluoromethane (Surr)	92		70 - 130					10/30/25 19:39	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Arsenic	3.4		2.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Barium	120		4.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:38	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Cobalt	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Copper	18		4.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Lead	8.2		1.2		ug/L		10/28/25 17:14	10/29/25 20:38	1
Nickel	9.8		4.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:38	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:38	1
Zinc	270		16		ug/L		10/28/25 17:14	10/29/25 20:38	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-8

Lab Sample ID: 620-30648-8

Date Collected: 10/27/25 13:48

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 20:03	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 20:03	1
Chloroethane	ND		2.0		ug/L			10/30/25 20:03	1
Chloroform	ND		1.0		ug/L			10/30/25 20:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 20:03	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 20:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 20:03	1
cis-1,2-Dichloroethene	2.4		1.0		ug/L			10/30/25 20:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 20:03	1
Isopropylbenzene	ND		1.0		ug/L			10/30/25 20:03	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 20:03	1
Trichloroethene	1.2		1.0		ug/L			10/30/25 20:03	1
Vinyl chloride	3.0		1.0		ug/L			10/30/25 20:03	1
Diethyl ether	ND	*+	1.0		ug/L			10/30/25 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130					10/30/25 20:03	1
Toluene-d8 (Surr)	96		70 - 130					10/30/25 20:03	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					10/30/25 20:03	1
Dibromofluoromethane (Surr)	93		70 - 130					10/30/25 20:03	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Arsenic	8.3		2.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Barium	54		4.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:41	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Cobalt	7.4		4.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Copper	5.1		4.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Lead	2.2		1.2		ug/L		10/28/25 17:14	10/29/25 20:41	1
Nickel	5.2		4.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:41	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:41	1
Zinc	78		16		ug/L		10/28/25 17:14	10/29/25 20:41	1

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: Trip Blank

Lab Sample ID: 620-30648-9

Date Collected: 10/27/25 00:00

Matrix: Water

Date Received: 10/28/25 15:21

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/30/25 13:39	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 13:39	1
Chloroethane	ND		2.0		ug/L			10/30/25 13:39	1
Chloroform	ND		1.0		ug/L			10/30/25 13:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 13:39	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 13:39	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 13:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 13:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 13:39	1
Isopropylbenzene	ND		1.0		ug/L			10/30/25 13:39	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 13:39	1
Trichloroethene	ND		1.0		ug/L			10/30/25 13:39	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 13:39	1
Diethyl ether	ND		1.0		ug/L			10/30/25 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130					10/30/25 13:39	1
Toluene-d8 (Surr)	100		70 - 130					10/30/25 13:39	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130					10/30/25 13:39	1
Dibromofluoromethane (Surr)	108		70 - 130					10/30/25 13:39	1

Surrogate Summary

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-130)	TOL (70-130)	DCA (70-130)	DBFM (70-130)
620-30648-1	MW-1	99	99	107	108
620-30648-2	MW-2	101	99	106	107
620-30648-3	MW-3	100	99	108	108
620-30648-4	MW-4	97	100	109	109
620-30648-5	MW-5	105	96	92	91
620-30648-6	MW-6	105	96	93	93
620-30648-7	MW-7	102	95	93	92
620-30648-8	MW-8	102	96	95	93
620-30648-9	Trip Blank	97	100	108	108
LCS 620-55246/4	Lab Control Sample	106	100	103	98
LCS 620-55249/4	Lab Control Sample	103	101	100	104
LCS 620-55318/4	Lab Control Sample	104	104	104	106
LCSD 620-55246/5	Lab Control Sample Dup	106	99	99	97
LCSD 620-55249/5	Lab Control Sample Dup	102	102	100	104
LCSD 620-55318/5	Lab Control Sample Dup	105	102	101	104
MB 620-55246/7	Method Blank	96	100	104	100
MB 620-55249/7	Method Blank	97	100	105	107
MB 620-55318/7	Method Blank	99	100	107	107

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- TOL = Toluene-d8 (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 620-55246/7

Matrix: Water

Analysis Batch: 55246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.0		ug/L			10/30/25 13:57	1
Chlorobenzene	ND		1.0		ug/L			10/30/25 13:57	1
Chloroethane	ND		2.0		ug/L			10/30/25 13:57	1
Chloroform	ND		1.0		ug/L			10/30/25 13:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/30/25 13:57	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/30/25 13:57	1
1,1-Dichloroethane	ND		1.0		ug/L			10/30/25 13:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 13:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/30/25 13:57	1
Isopropylbenzene	ND		1.0		ug/L			10/30/25 13:57	1
Tetrachloroethene	ND		1.0		ug/L			10/30/25 13:57	1
Trichloroethene	ND		1.0		ug/L			10/30/25 13:57	1
Vinyl chloride	ND		1.0		ug/L			10/30/25 13:57	1
Diethyl ether	ND		1.0		ug/L			10/30/25 13:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		70 - 130		10/30/25 13:57	1
Toluene-d8 (Surr)	100		70 - 130		10/30/25 13:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		10/30/25 13:57	1
Dibromofluoromethane (Surr)	100		70 - 130		10/30/25 13:57	1

Lab Sample ID: LCS 620-55246/4

Matrix: Water

Analysis Batch: 55246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	20.0	19.7		ug/L		98	82 - 120
Chlorobenzene	20.0	21.0		ug/L		105	82 - 112
Chloroethane	20.0	15.4		ug/L		77	47 - 142
Chloroform	20.0	20.6		ug/L		103	77 - 126
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	81 - 115
Dichlorodifluoromethane	20.0	17.3		ug/L		87	21 - 147
1,1-Dichloroethane	20.0	21.3		ug/L		106	84 - 122
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	85 - 122
trans-1,2-Dichloroethene	20.0	20.9		ug/L		104	84 - 123
Isopropylbenzene	20.0	20.9		ug/L		104	78 - 122
Tetrachloroethene	20.0	20.0		ug/L		100	78 - 124
Trichloroethene	20.0	22.4		ug/L		112	79 - 113
Vinyl chloride	20.0	26.2		ug/L		131	49 - 145
Diethyl ether	20.0	24.4	*+	ug/L		122	74 - 119

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

QC Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 620-55246/5

Matrix: Water

Analysis Batch: 55246

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	20.0	17.6		ug/L		88	82 - 120	11	20
Chlorobenzene	20.0	18.7		ug/L		94	82 - 112	11	20
Chloroethane	20.0	13.1		ug/L		66	47 - 142	16	20
Chloroform	20.0	18.0		ug/L		90	77 - 126	13	20
1,4-Dichlorobenzene	20.0	17.2		ug/L		86	81 - 115	13	20
Dichlorodifluoromethane	20.0	15.1		ug/L		76	21 - 147	14	20
1,1-Dichloroethane	20.0	19.0		ug/L		95	84 - 122	11	20
cis-1,2-Dichloroethene	20.0	18.5		ug/L		92	85 - 122	11	20
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	84 - 123	7	20
Isopropylbenzene	20.0	18.9		ug/L		95	78 - 122	10	20
Tetrachloroethene	20.0	17.3		ug/L		86	78 - 124	15	20
Trichloroethene	20.0	19.4		ug/L		97	79 - 113	15	20
Vinyl chloride	20.0	22.6		ug/L		113	49 - 145	15	20
Diethyl ether	20.0	22.2		ug/L		111	74 - 119	9	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

Lab Sample ID: MB 620-55249/7

Matrix: Water

Analysis Batch: 55249

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.0		ug/L		10/30/25 11:56	1	
Chlorobenzene	ND		1.0		ug/L		10/30/25 11:56	1	
Chloroethane	ND		2.0		ug/L		10/30/25 11:56	1	
Chloroform	ND		1.0		ug/L		10/30/25 11:56	1	
1,4-Dichlorobenzene	ND		1.0		ug/L		10/30/25 11:56	1	
Dichlorodifluoromethane	ND		2.0		ug/L		10/30/25 11:56	1	
1,1-Dichloroethane	ND		1.0		ug/L		10/30/25 11:56	1	
cis-1,2-Dichloroethene	ND		1.0		ug/L		10/30/25 11:56	1	
trans-1,2-Dichloroethene	ND		1.0		ug/L		10/30/25 11:56	1	
Isopropylbenzene	ND		1.0		ug/L		10/30/25 11:56	1	
Tetrachloroethene	ND		1.0		ug/L		10/30/25 11:56	1	
Trichloroethene	ND		1.0		ug/L		10/30/25 11:56	1	
Vinyl chloride	ND		1.0		ug/L		10/30/25 11:56	1	
Diethyl ether	ND		1.0		ug/L		10/30/25 11:56	1	

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		70 - 130		10/30/25 11:56	1
Toluene-d8 (Surr)	100		70 - 130		10/30/25 11:56	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/30/25 11:56	1
Dibromofluoromethane (Surr)	107		70 - 130		10/30/25 11:56	1

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 620-55249/4

Matrix: Water

Analysis Batch: 55249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	20.0	19.2		ug/L		96	82 - 120	
Chlorobenzene	20.0	20.6		ug/L		103	82 - 112	
Chloroethane	20.0	18.1		ug/L		90	47 - 142	
Chloroform	20.0	20.1		ug/L		101	77 - 126	
1,4-Dichlorobenzene	20.0	18.9		ug/L		95	81 - 115	
Dichlorodifluoromethane	20.0	25.8		ug/L		129	21 - 147	
1,1-Dichloroethane	20.0	19.2		ug/L		96	84 - 122	
cis-1,2-Dichloroethene	20.0	21.3		ug/L		106	85 - 122	
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	84 - 123	
Isopropylbenzene	20.0	20.3		ug/L		102	78 - 122	
Tetrachloroethene	20.0	21.3		ug/L		106	78 - 124	
Trichloroethene	20.0	20.4		ug/L		102	79 - 113	
Vinyl chloride	20.0	22.8		ug/L		114	49 - 145	
Diethyl ether	20.0	20.9		ug/L		104	74 - 119	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Lab Sample ID: LCSD 620-55249/5

Matrix: Water

Analysis Batch: 55249

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
Benzene	20.0	18.9		ug/L		94	82 - 120	2	20	
Chlorobenzene	20.0	20.2		ug/L		101	82 - 112	2	20	
Chloroethane	20.0	18.6		ug/L		93	47 - 142	3	20	
Chloroform	20.0	20.0		ug/L		100	77 - 126	0	20	
1,4-Dichlorobenzene	20.0	18.2		ug/L		91	81 - 115	4	20	
Dichlorodifluoromethane	20.0	25.1		ug/L		125	21 - 147	3	20	
1,1-Dichloroethane	20.0	19.3		ug/L		96	84 - 122	0	20	
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	85 - 122	0	20	
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	84 - 123	0	20	
Isopropylbenzene	20.0	19.7		ug/L		99	78 - 122	3	20	
Tetrachloroethene	20.0	20.8		ug/L		104	78 - 124	2	20	
Trichloroethene	20.0	20.3		ug/L		101	79 - 113	1	20	
Vinyl chloride	20.0	22.0		ug/L		110	49 - 145	3	20	
Diethyl ether	20.0	21.2		ug/L		106	74 - 119	2	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

QC Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 620-55318/7

Matrix: Water

Analysis Batch: 55318

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/31/25 12:21	1
Chlorobenzene	ND		1.0		ug/L			10/31/25 12:21	1
Chloroethane	ND		2.0		ug/L			10/31/25 12:21	1
Chloroform	ND		1.0		ug/L			10/31/25 12:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/31/25 12:21	1
Dichlorodifluoromethane	ND		2.0		ug/L			10/31/25 12:21	1
1,1-Dichloroethane	ND		1.0		ug/L			10/31/25 12:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/31/25 12:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/31/25 12:21	1
Isopropylbenzene	ND		1.0		ug/L			10/31/25 12:21	1
Tetrachloroethene	ND		1.0		ug/L			10/31/25 12:21	1
Trichloroethene	ND		1.0		ug/L			10/31/25 12:21	1
Vinyl chloride	ND		1.0		ug/L			10/31/25 12:21	1
Diethyl ether	ND		1.0		ug/L			10/31/25 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		10/31/25 12:21	1
Toluene-d8 (Surr)	100		70 - 130		10/31/25 12:21	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		10/31/25 12:21	1
Dibromofluoromethane (Surr)	107		70 - 130		10/31/25 12:21	1

Lab Sample ID: LCS 620-55318/4

Matrix: Water

Analysis Batch: 55318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	20.5		ug/L		102	82 - 120
Chlorobenzene	20.0	20.2		ug/L		101	82 - 112
Chloroethane	20.0	19.9		ug/L		99	47 - 142
Chloroform	20.0	21.6		ug/L		108	77 - 126
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	81 - 115
Dichlorodifluoromethane	20.0	41.2	*+	ug/L		206	21 - 147
1,1-Dichloroethane	20.0	20.3		ug/L		101	84 - 122
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	85 - 122
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	84 - 123
Isopropylbenzene	20.0	22.0		ug/L		110	78 - 122
Tetrachloroethene	20.0	22.3		ug/L		112	78 - 124
Trichloroethene	20.0	21.8		ug/L		109	79 - 113
Vinyl chloride	20.0	28.5		ug/L		142	49 - 145
Diethyl ether	20.0	22.5		ug/L		112	74 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

QC Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 620-55318/5

Matrix: Water

Analysis Batch: 55318

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	20.0	20.0		ug/L		100	82 - 120	2	20
Chlorobenzene	20.0	20.3		ug/L		101	82 - 112	1	20
Chloroethane	20.0	21.1		ug/L		105	47 - 142	6	20
Chloroform	20.0	21.2		ug/L		106	77 - 126	2	20
1,4-Dichlorobenzene	20.0	19.1		ug/L		95	81 - 115	0	20
Dichlorodifluoromethane	20.0	40.0	*+	ug/L		200	21 - 147	3	20
1,1-Dichloroethane	20.0	19.8		ug/L		99	84 - 122	3	20
cis-1,2-Dichloroethane	20.0	21.6		ug/L		108	85 - 122	0	20
trans-1,2-Dichloroethane	20.0	21.0		ug/L		105	84 - 123	1	20
Isopropylbenzene	20.0	21.8		ug/L		109	78 - 122	1	20
Tetrachloroethene	20.0	21.7		ug/L		108	78 - 124	3	20
Trichloroethene	20.0	21.7		ug/L		108	79 - 113	1	20
Vinyl chloride	20.0	26.9		ug/L		134	49 - 145	6	20
Diethyl ether	20.0	22.1		ug/L		111	74 - 119	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 620-55166/1-A

Matrix: Water

Analysis Batch: 55263

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Arsenic	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Barium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Beryllium	ND		0.80		ug/L		10/28/25 17:14	10/29/25 20:06	1
Cadmium	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Chromium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Cobalt	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Copper	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Lead	ND		1.2		ug/L		10/28/25 17:14	10/29/25 20:06	1
Nickel	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Selenium	ND		2.5		ug/L		10/28/25 17:14	10/29/25 20:06	1
Silver	ND		2.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Thallium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Vanadium	ND		4.0		ug/L		10/28/25 17:14	10/29/25 20:06	1
Zinc	ND		16		ug/L		10/28/25 17:14	10/29/25 20:06	1

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 620-55166/2-A
Matrix: Water
Analysis Batch: 55263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	47.5	40.7		ug/L		86	85 - 115	
Arsenic	47.5	43.1		ug/L		91	85 - 115	
Barium	47.5	41.4		ug/L		87	85 - 115	
Beryllium	47.5	41.3		ug/L		87	85 - 115	
Cadmium	47.5	44.1		ug/L		93	85 - 115	
Chromium	47.5	47.5		ug/L		100	85 - 115	
Cobalt	47.5	49.6		ug/L		104	85 - 115	
Copper	47.5	55.2		ug/L		116	85 - 115	
Lead	47.5	47.1		ug/L		99	85 - 115	
Nickel	47.5	49.5		ug/L		104	85 - 115	
Selenium	47.5	46.3		ug/L		97	85 - 115	
Silver	47.5	45.4		ug/L		96	85 - 115	
Thallium	47.5	46.9		ug/L		99	85 - 115	
Vanadium	47.5	44.8		ug/L		94	85 - 115	
Zinc	47.5	47.8		ug/L		101	85 - 115	

Lab Sample ID: 620-30648-1 MS
Matrix: Water
Analysis Batch: 55263

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Antimony	ND		50.0	42.8		ug/L		86	75 - 125	
Arsenic	ND		50.0	47.3		ug/L		91	75 - 125	
Barium	18		50.0	62.5		ug/L		88	75 - 125	
Beryllium	ND		50.0	42.7		ug/L		85	75 - 125	
Cadmium	ND		50.0	46.2		ug/L		92	75 - 125	
Chromium	ND		50.0	49.8		ug/L		100	75 - 125	
Cobalt	ND		50.0	53.0		ug/L		101	75 - 125	
Copper	10		50.0	64.1		ug/L		108	75 - 125	
Lead	ND		50.0	49.5		ug/L		98	75 - 125	
Nickel	ND		50.0	52.6		ug/L		101	75 - 125	
Selenium	ND		50.0	43.2		ug/L		86	75 - 125	
Silver	ND		50.0	46.6		ug/L		93	75 - 125	
Thallium	ND		50.0	48.8		ug/L		98	75 - 125	
Vanadium	ND		50.0	48.2		ug/L		96	75 - 125	
Zinc	ND		50.0	56.5		ug/L		93	75 - 125	

Lab Sample ID: 620-30648-1 DU
Matrix: Water
Analysis Batch: 55263

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	
							RPD	Limit
Antimony	ND		ND		ug/L		NC	20
Arsenic	ND		ND		ug/L		NC	20
Barium	18		17.5		ug/L		6	20
Beryllium	ND		ND		ug/L		NC	20
Cadmium	ND		ND		ug/L		NC	20
Chromium	ND		ND		ug/L		NC	20
Cobalt	ND		ND		ug/L		NC	20

Eurofins Rhode Island

QC Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 620-30648-1 DU

Matrix: Water

Analysis Batch: 55263

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 55166

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	10		10.1		ug/L		0.3	20
Lead	ND		ND		ug/L		NC	20
Nickel	ND		ND		ug/L		NC	20
Selenium	ND		ND		ug/L		NC	20
Silver	ND		ND		ug/L		NC	20
Thallium	ND		ND		ug/L		NC	20
Vanadium	ND		ND		ug/L		NC	20
Zinc	ND		ND		ug/L		NC	20

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QC Association Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

GC/MS VOA

Analysis Batch: 55246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-30648-5	MW-5	Total/NA	Water	8260D	
620-30648-6	MW-6	Total/NA	Water	8260D	
620-30648-7	MW-7	Total/NA	Water	8260D	
620-30648-8	MW-8	Total/NA	Water	8260D	
MB 620-55246/7	Method Blank	Total/NA	Water	8260D	
LCS 620-55246/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 620-55246/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 55249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-30648-1	MW-1	Total/NA	Water	8260D	
620-30648-2	MW-2	Total/NA	Water	8260D	
620-30648-4	MW-4	Total/NA	Water	8260D	
620-30648-9	Trip Blank	Total/NA	Water	8260D	
MB 620-55249/7	Method Blank	Total/NA	Water	8260D	
LCS 620-55249/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 620-55249/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 55318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-30648-3	MW-3	Total/NA	Water	8260D	
MB 620-55318/7	Method Blank	Total/NA	Water	8260D	
LCS 620-55318/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 620-55318/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 55166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-30648-1	MW-1	Total/NA	Water	3005A	
620-30648-2	MW-2	Total/NA	Water	3005A	
620-30648-3	MW-3	Total/NA	Water	3005A	
620-30648-4	MW-4	Total/NA	Water	3005A	
620-30648-5	MW-5	Total/NA	Water	3005A	
620-30648-6	MW-6	Total/NA	Water	3005A	
620-30648-7	MW-7	Total/NA	Water	3005A	
620-30648-8	MW-8	Total/NA	Water	3005A	
MB 620-55166/1-A	Method Blank	Total/NA	Water	3005A	
LCS 620-55166/2-A	Lab Control Sample	Total/NA	Water	3005A	
620-30648-1 MS	MW-1	Total/NA	Water	3005A	
620-30648-1 DU	MW-1	Total/NA	Water	3005A	

Analysis Batch: 55263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-30648-1	MW-1	Total/NA	Water	6020B	55166
620-30648-2	MW-2	Total/NA	Water	6020B	55166
620-30648-3	MW-3	Total/NA	Water	6020B	55166
620-30648-4	MW-4	Total/NA	Water	6020B	55166
620-30648-5	MW-5	Total/NA	Water	6020B	55166
620-30648-6	MW-6	Total/NA	Water	6020B	55166
620-30648-7	MW-7	Total/NA	Water	6020B	55166

Eurofins Rhode Island

QC Association Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Metals (Continued)

Analysis Batch: 55263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-30648-8	MW-8	Total/NA	Water	6020B	55166
MB 620-55166/1-A	Method Blank	Total/NA	Water	6020B	55166
LCS 620-55166/2-A	Lab Control Sample	Total/NA	Water	6020B	55166
620-30648-1 MS	MW-1	Total/NA	Water	6020B	55166
620-30648-1 DU	MW-1	Total/NA	Water	6020B	55166

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Lab Chronicle

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-1

Date Collected: 10/27/25 15:05

Date Received: 10/28/25 15:21

Lab Sample ID: 620-30648-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55249	CLR	EET RI	10/30/25 17:06
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:11

Client Sample ID: MW-2

Date Collected: 10/27/25 13:05

Date Received: 10/28/25 15:21

Lab Sample ID: 620-30648-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55249	CLR	EET RI	10/30/25 17:29
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:19

Client Sample ID: MW-3

Date Collected: 10/27/25 12:14

Date Received: 10/28/25 15:21

Lab Sample ID: 620-30648-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55318	CLR	EET RI	10/31/25 14:00
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:22

Client Sample ID: MW-4

Date Collected: 10/27/25 09:55

Date Received: 10/28/25 15:21

Lab Sample ID: 620-30648-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55249	CLR	EET RI	10/30/25 18:12
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:25

Client Sample ID: MW-5

Date Collected: 10/27/25 14:20

Date Received: 10/28/25 15:21

Lab Sample ID: 620-30648-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55246	CLR	EET RI	10/30/25 18:50
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:27

Client Sample ID: MW-6

Date Collected: 10/27/25 11:35

Date Received: 10/28/25 15:21

Lab Sample ID: 620-30648-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55246	CLR	EET RI	10/30/25 19:14

Eurofins Rhode Island

Lab Chronicle

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Client Sample ID: MW-6

Lab Sample ID: 620-30648-6

Date Collected: 10/27/25 11:35

Matrix: Water

Date Received: 10/28/25 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:30

Client Sample ID: MW-7

Lab Sample ID: 620-30648-7

Date Collected: 10/27/25 10:47

Matrix: Water

Date Received: 10/28/25 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55246	CLR	EET RI	10/30/25 19:39
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:38

Client Sample ID: MW-8

Lab Sample ID: 620-30648-8

Date Collected: 10/27/25 13:48

Matrix: Water

Date Received: 10/28/25 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55246	CLR	EET RI	10/30/25 20:03
Total/NA	Prep	3005A			55166	SRC	EET RI	10/28/25 17:14
Total/NA	Analysis	6020B		1	55263	JPC	EET RI	10/29/25 20:41

Client Sample ID: Trip Blank

Lab Sample ID: 620-30648-9

Date Collected: 10/27/25 00:00

Matrix: Water

Date Received: 10/28/25 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	55249	CLR	EET RI	10/30/25 13:39

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Laboratory: Eurofins Rhode Island

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7165.01	01-31-27
A2LA	ISO/IEC 17025	7165.01	01-31-27
Connecticut	State	PH-0824	06-30-26
Maine	State	RI00100	05-09-27
Massachusetts	State	M-RI907	06-30-26
New Hampshire	NELAP	2245	09-17-26
New Jersey	NELAP	RI008	09-29-24 *
New York	NELAP	11393	03-31-26
Rhode Island	State	LAI00368	12-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET RI
6020B	Metals (ICP/MS)	SW846	EET RI
3005A	Preparation, Total Metals	SW846	EET RI
5030C	Purge and Trap	SW846	EET RI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018



Sample Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-30648-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-30648-1	MW-1	Water	10/27/25 15:05	10/28/25 15:21	Rhode Island
620-30648-2	MW-2	Water	10/27/25 13:05	10/28/25 15:21	Rhode Island
620-30648-3	MW-3	Water	10/27/25 12:14	10/28/25 15:21	Rhode Island
620-30648-4	MW-4	Water	10/27/25 09:55	10/28/25 15:21	Rhode Island
620-30648-5	MW-5	Water	10/27/25 14:20	10/28/25 15:21	Rhode Island
620-30648-6	MW-6	Water	10/27/25 11:35	10/28/25 15:21	Rhode Island
620-30648-7	MW-7	Water	10/27/25 10:47	10/28/25 15:21	Rhode Island
620-30648-8	MW-8	Water	10/27/25 13:48	10/28/25 15:21	Rhode Island
620-30648-9	Trip Blank	Water	10/27/25 00:00	10/28/25 15:21	Rhode Island

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30648

Client Information		Sampler: <i>Mackie Heagie</i>		Lab PM: Huntley, Agnes R		Carrier Tracking No(s): 620-28318-4624 1	
Client Contact: Adrienne Kee		Phone		E-Mail: Agnes Huntley@et.euofins.com		Page 1 of 1	
Company: Atlas Technical Consultants LLC		Address: 400 Reservoir Ave Suite 2C		City: Providence		State of Origin	
State, Zip: RI, 02907		Phone: 401-714-0306(Tel)		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		TAT Requested (days):	
Email: adrienne.kee@oneatlas.com		PO #: 401-714-0306(Tel)		Purchase Order not required		Other:	
Project Name: Portsmouth Landfill		Project #: 62001688		WO #:		Preservation Codes: A - HCL D - HNO3	
Site:		SSOW#:		Due Date Requested:		Job #:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Seawater, Open-air, BTL=Breast Tissue, AA=Air, DW=Drinking water)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	Special Instructions/Note:
					A	D	A	D		
-1 MW-1	10/27/25	1505	G	Water						
-2 MW-2		1305		Water						
-3 MW-3		1214		Water						
-4 MW-4		0955		Water						
-5 MW-5		1420		Water						
-6 MW-6		1135		Water						
-7 MW-7		1047		Water						
-8 MW-8		1340		Water						
-9 Trip Blank	10/27/25	-		Water						620-30648 COC

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by _____ **Date** _____ **Method of Shipment:** _____

Relinquished by *Juan Hernandez* **Date/Time** 10/27/25 **Company** _____

Relinquished by _____ **Date/Time** _____ **Company** _____

Relinquished by _____ **Date/Time** _____ **Company** _____

Custody Seals Intact: Yes No **Custody Seal No** _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements

Received by _____ **Date/Time** 10/28/25 1521 **Company** *eu*

Received by _____ **Date/Time** _____ **Company** _____

Received by _____ **Date/Time** _____ **Company** _____

Cooler Temperature(s) °C and Other Remarks 2.8/3.0°C #6 *JWH*



Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-30648-1

Login Number: 30648

List Source: Eurofins Rhode Island

List Number: 1

Creator: Makhoul, Elie

Question	Answer	Comment
Radioactivity is at or below background levels?	N/A	
The cooler's custody seal is present and intact?	N/A	
The cooler or samples do not appear to have been compromised or tampered with?	N/A	
Samples were received on Ice?	True	
Containers are not broken or leaking?	True	
There are no samples present with short holding-time parameters?	True	
Quick TAT was not requested?	True	
COC is present?	True	
COC is filled out in ink and legible?	True	
COC is filled out completely?	True	
COC includes all required signatures?	True	
Is the Field Sampler's name present on COC?	True	
Sample containers have legible labels?	True	
COC matches up to all samples in the cooler?	True	
Sample ID's on containers match exactly the sample ID's on COC?	True	
Appropriate sample containers are used?	True	
Sample collection date/times are provided?	True	
Samples are received within Holding Time?	True	
Cooler Temperature is acceptable: <6 degC, with no frozen samples?	True	
Cooler Temperature is recorded?	True	
Sample bottles are completely filled?	True	
There is sufficient volume for all the requested analyses?	True	
Appropriate sample preservatives were used?	True	
Aqueous inorganic sample pHs are acceptable?	True	
Aqueous semi-volatile organics sample pHs are acceptable?	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter?	True	
MS/MSD was not requested and not extra volume was sent?	True	
Samples do not require splitting or compositing?	True	
Multiphase samples are not present?	True	
Trip Blank was not provided/required?	True	
A sample discrepancy report is not needed?	N/A	

