



POST RD/RA IMPLEMENTATION

1ST SEMESTER 2024 SSD PERFORMANCE MONITORING REPORT



Irwin Hodson Property

2808 and 2838 SE 9th Avenue
Portland, Oregon 97202
Multnomah County Parcel R251319

Agency Information

ODEQ LUST File Number 26-97-0130

ODEQ ECSI File No. 6399

Prepared for:

The Irwin Hodson Company

2838 SE 9th Avenue
Portland, Oregon 97202
Attn: Heather Brown

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This

Post RD/RA Implementation 1st Semester 2024 SSD Performance Monitoring Report

for the:

Irwin Hodson Property

2808 and 2838 SE 9th Avenue
Portland, Oregon 97202

Has been prepared for the sole benefit and use of our Client:

The Irwin Hodson Company

2838 SE 9th Avenue
Portland, Oregon 97202
Attn: Heather Brown

and its assignees

Issued June 26, 2024 by:



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List of Acronyms and Abbreviations

bgs	below ground surface
CO ₂	carbon dioxide
CO	carbon monoxide
CH ₄	methane
Client	The Irwin Hodson Company
COC	constituent of concern
COPC	constituents of potential concern
ΔP	differential pressure
DCE	dichloroethene
EAS	Environmental Analytical Services, Inc.
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane
ENW	EVREN Northwest, Inc.
EPA	US Environmental Protection Agency
FSDS	field sampling data sheets
H ₂ S	hydrogen sulfide
HVAC	heating, ventilation, and air conditioning
inHg	inches of mercury
inH ₂ O	inches of water
IPA	isopropyl alcohol (2-propanol)
μg/m ³	micrograms per cubic meter
mg/Kg	milligrams per Kilogram
mL/min	milliliters per minute
ODEQ	Oregon Department of Environmental Quality
PCE	tetrachloroethene
PID	photoionization detector
ppmv	parts per million by volume
Qfch	channel facies of Missoula Flood deposits
RAO	remedial action objective
RAWP	remedial action work plan
RBC	risk-based concentration
RD/RA	Remedial Design / Remedial Action
SOW	scope of work
SRA	soil removal action
SSV	sub-slab ventilation
TCA	1,1,2-trichloroethane
TCE	trichloroethene
UCL	upper confidence limit
VOCs	volatile organic constituents

1.0 Introduction

At the request of The Irwin Hodson Company (Client), EVREN Northwest, Inc. (ENW) conducted 1st Semester 2024 Post Remedial Design/Remedial Action (RD/RA) sub-slab depressurization (SSD) performance monitoring at the Irwin Hodson property located at 2808 and 2838 SE 9th Avenue in Portland, Oregon (subject site; see Figures 1 and 2). This work was conducted according to the scope of work (SOW) in ENW's *Monitoring Plan*.¹

Performance monitoring is being conducted at the subject site to evaluate the effectiveness of the implemented RD/RA which included:

- A focused soil removal action (SRA)² in August and September 2021,
- Subsequent installation of a passive sub-slab ventilation (SSV) system^{3,4} in September and October 2021,
- Additional floor slab sealing in the southern portion of the building was completed on May 24, 2022, and
- Installation of the sub-slab depressurization (SSD) system and activation on December 13, 2023.⁵

Site mitigation measures are being conducted under the oversight of the Oregon Department of Environmental Quality [ODEQ; Environmental Cleanup Site Information (ECSI) Site ID 6399].

Post RD/RA Performance Monitoring described in this report was conducted in the 1st and 2nd quarters of 2024. The methods and findings of the work conducted are described in this report. Photographs of sitework are included in Appendix A.

2.0 Site Description and Overview of Environmental Work

2.1 Site Location and Setting

Site and Vicinity General Description. The subject property is in a commercial/industrial section of southeast Portland, Oregon, on the north side of SE Powell Boulevard (see Figure 1). The site consists of one tax lot encompassing a total of 0.85 acres, with an industrial warehouse building covering the entire

¹ ENW, November 5, 2023. *Active Sub-Slab Depressurization Monitoring Work Plan*, Irwin Hodson Property, 2808 and 2838 SE 9th Avenue, Portland, Oregon 97202, Multnomah County Parcel R251319, ODEQ ECSI File Number 6399; prepared for The Irwin Hodson Company.

² ENW, December 9, 2021. *Focused Soil Removal Action Summary Report*, Irwin Hodson Property, 2808 and 2838 SE 9th Avenue, Portland, Oregon 97202; prepared for The Irwin Hodson Company.

³ ENW, January 13, 2022. *Sub-Slab Venting System Installation*, Irwin Hodson Property, 2808 and 2838 SE 9th Avenue, Portland, Oregon 97202; prepared for The Irwin Hodson Company.

⁴ ENW, July 22, 2021. *Sub-Slab Venting/Depressurization Installation and Focused Soil Removal Action Work Plan (RAWP)*, Irwin Hodson Property, 2808 and 2838 SE 9th Avenue, Portland, Oregon 97202, Multnomah County Parcel R251319, ODEQ LUST File Number 26-97-0130; prepared for The Irwin Hodson Company.

⁵ ENW, March 28, 2024. *Sub-Slab Depressurization System Installation*. , Irwin Hodson Property, 2808 and 2838 SE 9th Avenue, Portland, Oregon 97202, Multnomah County Parcel R251319, ODEQ ECSI File

building footprint. The site is bordered by a mix of commercial and industrial land uses east to SE 11th Avenue, south to SE Powell Boulevard, west to the banks of the Willamette River, and north to NE Broadway Street. Site features and nearby properties are shown in Figure 2.

Historical Land Use. Industrial land use of the site and surrounding area dates to the early 1900s. Previous occupants of the subject site included Northwest Planing Mills Company, a former coal gas facility, and the Iron Fireman Manufacturing Company. Irwin Hodson has occupied the site since the mid-1960s, operating a metal sign and printing company out of four warehouse buildings on the property. Irwin Hodson recently shared the buildings with one small, light industrial business (FORM), who subsequently terminated their lease. Irwin Hodson subsequently leased the northwest and northeast warehouse spaces to Past Lives LLC, which operates a workshop in the space in support of a community of artists, hobbyists, and beginning business owners dedicated to creating employment and mentorship opportunities for formerly incarcerated and anyone else overcoming trauma or from marginalized backgrounds. A complete account of the site's operational history is described in more detail in ENW's *July 2021 Data Gap Investigation*⁶ and ENW's Remedial Action Work Plan (RAWP).⁴

Soils and Geology. Soil borings completed at the site generally encountered fine sediments consisting of silt grading to sand down to a depth of approximately 18 feet below ground surface (bgs). These fine-grained sediments are underlain by dense, coarser-grained materials consisting of sands, gravels and cobbles that extended to the maximum depth drilled of 50 feet bgs. Geologic mapping of this portion of Portland maps these materials as Channel Facies of Missoula Flood deposits (Qfch).⁷ Boring locations and logs were presented in ENW's *Data Gap Investigation*.

Ground Water. Depth to static water measured from temporary exploratory borings during subject site investigations ranged from approximately 27 to 33 feet bgs. An out-of-service industrial well (MULT 2778) was abandoned at the subject site in June 2019. This 4-inch diameter well was deepened from 113 feet to 153 feet bgs in March 1967, at which time a static water level of 24 feet was recorded. The driller's log indicates that the well terminated in large, water-bearing gravel.

2.2 Previous Investigations

Several previous investigations were conducted at the subject site. ENW's *July 2021 Data Gap Investigation* and RAWP present a thorough summary of the results of these investigations.

2.3 Remedial Action Objectives

Remedial action objectives (RAOs) were developed in the RAWP to mitigate potential unacceptable risk from identified Constituents of Concern (COCs) at the subject site:

1. **Soil.** Prevent occupational receptors from coming into direct contact with arsenic-enriched soil (concentrations greater than the background concentration of 8.8 milligrams per Kilogram [mg/Kg]).

⁶ ENW, July 22, 2021. *Data Gap Investigation*, Irwin Hodson Property, 2808 and 2838 SE 9th Avenue, Portland, Oregon 97202, Multnomah County Parcel R251319, ODEQ LUST File Number 26-97-0130; prepared for The Irwin Hodson Company.

⁷ Madin, I.P., 1990, Earthquake Hazard Geology Maps of the Portland Metropolitan Area, Oregon: Oregon Department of Geology and Mineral Industries Open File Report 0-90-2.

2. **Indoor Air.** Prevent vapor intrusion of TCE (trichloroethene) at concentrations exceeding the non-residential worker RBC (risk-based concentration) of 3.0 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in indoor air.

The implemented RD/RA was designed to meet these RAOs.

2.4 Additional ODEQ Performance Monitoring Requirements

ODEQ requested that additional Constituents of Potential Concern (COPCs) be sampled and evaluated during performance monitoring. These constituents are included on Tables 1 and 2. Of note:

- These COPCs were previously not identified as COCs, and no RAOs were developed for these constituents. In Tables 1, they are evaluated against:
 - Commercial RBCs.
- ODEQ requested that Radiello passive samplers be used for indoor air testing; however, these types of samples can only be tested for the following constituents: 1,1-Dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene (PCE), TCE, and vinyl chloride. The remaining COPCs were testing using summa canisters and method TO-15.

3.0 SSD Activation

In December 2023, the passive SSV was converted to an active SSD system complete with a vent riser for the south SSV leg (SSD01) and north SSV leg (SSD02), inline fans for each vent riser, and temporary discharge treatment [three granular activated carbon canisters (GACs)].³ Following this conversion, the SSD system was started on December 13, 2023 and vent discharge was monitored. ENW collected air discharge vent samples following system activation on December 13, 2023 and December 27, 2023 and determined that discharged concentrations of TCE were below the modeled concentrations presented in in ENW's work plan¹, which was prepared and submitted prior to ODEQ issuing its draft guidance.⁸ Therefore, the GAC discharge treatment system was disconnected. While concentrations of TCE in discharged air were below the discharge benchmark based on modeling using the U.S. Environmental Protection Agency's (EPA) AERSCREEN model, ODEQ subsequently requested that all monitored volatile organic constituents (VOCs) be analyzed in discharged air and screened using ODEQ new DRAFT guidance. ENW collected additional vent discharge data on February 1, 2024 and May 3, 2024, with the May 2024 event including the complete list of volatile COPCs. Based on this discharge data, ENW concluded that there was no unacceptable risk to potential nearby receptors or site occupants.⁹ Vent discharge air sampling data is summarized in Table 3.

The negative pressure field extension beneath the slab in the NE quarter of the building as a result of the activation of the SSD system is shown in Figure 4, based on the data collected in May 2024.

⁸ ODEQ. March 2024 (DRAFT) Guidance for Assessing and Remediating Vapor Intrusion into Buildings.

⁹ ENW. June 12, 2024. Cleaner Air Oregon, Level 1 Emissions Risk Screening.

4.0 Performance Monitoring Overview

Following the conversion to the active SSD system, the following performance monitoring activities were conducted in January and May 2024:

- Deployment of digital pressure gages to assess differential pressures exerted by the active SSD system inside and outside of the SRA footprint
- Building heating, ventilation, and air conditioning (HVAC) evaluation
- Hazardous materials inventory
- Indoor/outdoor air quality testing
- Soil gas and sub-slab vapor testing

Performance monitoring was conducted with the following general objectives:

- To perform the work efficiently and cost-effectively, minimizing interference with any site operations.
- To perform the work in a safe manner for technical personnel and site employees / visitors.
- To document information and data generated in a professional manner that is valid for the intended use.

A photolog documenting field activities is presented in Appendix A. Sampling locations are shown on Figures 3 and 4. The following sections present the methods and results of each task.

5.0 Building Differential Pressure

5.1 Installation and Locations

In December 2023 and April 2024, ENW deployed TEC model DG-1000 Digital Pressure Gauges to continuously monitor differential pressures (ΔP) at several locations in the NE warehouse:

- (1) **Indoor air and outdoor air.** North wall at the west end of the NE warehouse. The pressure gauge was fitted with two lengths of ¼-inch tubing. One tubing opened into the warehouse to monitor changes in indoor air pressure, while the second tubing was routed through a roof vent and opened to outdoor air to monitor changes in outdoor air pressure. Setup was such that a positive pressure differential means that the indoor air pressure is positive relative to outdoor air.
- (2) **Indoor air and sub-slab vapor (SUB18) within the SRA area.** South wall near the SW corner of the NE warehouse. One tubing opened into the warehouse to monitor changes in indoor air pressure, while the second tubing was connected to the stainless-steel Vapor Pin at SUB18 nearby to monitor changes in sub-slab pressure within the SRA backfill. Setup was such that a negative pressure differential means that pressure in the sub-slab environment is lower in pressure relative to indoor air.
- (3) **Indoor air and sub-slab vapor (SUB22) within the SRA area (December 2023).** North of the equipment pad in the deep part of the SRA area near the NW corner of the NE warehouse. One tubing opened into the warehouse to monitor changes in indoor air pressure, while the second tubing was connected to the stainless-steel Vapor Pin at SUB22 to monitor changes in sub-slab pressure within the SRA backfill. Similar to no. 2 above, setup was such that a negative pressure

differential means that pressure in the sub-slab environment is lower in pressure relative to indoor air.

- (4) **Indoor air and communication test point (CT14) within the SRA area.** North and center of the northern leg of the SSD vapor collection system (SSD02). One tubing opened into the warehouse to monitor changes in indoor air pressure, while the second tubing was connected to the stainless-steel Vapor Pin at CT14 to monitor changes in sub-slab pressure within the SRA backfill. Similar to no. 3 above, setup was such that a negative pressure differential means that pressure in the sub-slab environment is lower in pressure relative to indoor air.

5.2 Measurement Plots

A ΔP plot for each of the three locations noted above is included in Appendix B. Because of the enormous amount of data, i.e., one reading every five seconds, 720 readings per hour, 17,280 readings per day, and approximately 668,110 readings over the 49-day monitoring period, a subset of one data point every 25 minutes was plotted. The pressure acquisition periods were as follows:

(1) Indoor air and outdoor air

a. January 2024

- i. 1/11/24 9:28 am through 4/21/24 9:02 am – during indoor air sampling (plotted 1,146 of 57,320 data points).
- ii. Note: Around 1:08 am on January 13, 2024, the tubing routed to outdoor air was displaced (likely by wind) from an outdoor to indoor position, resulting in negligible, i.e., zero, ΔP readings until the problem was discovered and tubing restored to an outdoor position around 12:54 pm on January 18, 2024.

b. April 2024

- i. 4/12/24 10:55 am through 4/21/24 9:02 am – during indoor air sampling (plotted 258 of 25,869 data points).

(2) Indoor air and sub-slab vapor (SUB18)

a. January 2024

- i. 12/13/23 9:46 am through 12/16/23 2:42 am and 12/26/23 9:27 am through 1/31/24 8:27 am – from start of SSD activation to conclusion of monitoring (plotted 2,226 of 668,097 data points acquired).
- ii. Note: 10-day disruption from 2:42 am on 12/16/23 to 9:27 am on 12/26/23 due to pressure gauge being inadvertently unplugged.

b. April 2024

- i. 4/4/24 13:14 am through 5/2/24 8:49 am – during indoor air sampling (plotted 80 of 80,111 data points).

(3) Indoor air and sub-slab vapor (SUB22)

- a. 12/13/23 9:43 am through 1/31/24 8:30 am - from start of SSD activation to conclusion of monitoring (plotted 2,819 of 845,811 data points acquired).
- b. Note: No disruptions.

(4) Indoor air and communication test location (CT14)

- a. April 2024
 - i. 4/15/23 14:07 pm through 5/2/24 8:59 am— during indoor air sampling (plotted 48 of 48,246 data points acquired).
 - ii. Note: 3-day disruption from 8:23 am on 4/17/24 to 16:26 am on 4/19/24 due to pressure gauge being inadvertently unplugged.

5.3 Analysis of Differential Pressures

Plots of differential pressure readings from January 3 through January 31, 2023 (Charts B-1 through B-3 in Appendix B) suggest the following:

- **Indoor vs. Outdoor (Plot B-1A and B).**
- January 2024
 - From January 11 through 31, 2024, differential pressures (ΔP s) ranged from approximately -0.063 inH₂O (inches of water column) to +0.021 inH₂O. No differential pressures were recorded from January 13 through 18, 2024 given the displacement of the outdoor tube as noted above. When measured, most of the ΔP s fell in the negative range, suggesting that ΔP s were lower in indoor air compared to outdoor air. The NE warehouse is generally heated only as needed through the occasional use of space heaters during the winter months. Additionally, the operations in this portion of the building also generate heat. A comparison of ΔP s to barometric pressure¹⁰ suggests possible correlation during the last nine days of the month (January 23 through 31, 2024); otherwise, not apparent correlation is visible.
- April 2024
 - From April 12 through 21, 2024, differential pressures (ΔP s) ranged from approximately -0.0794 inH₂O (inches of water column) to +0.009 inH₂O. As in January, most of the ΔP s were negative, suggesting that ΔP s were lower in indoor air compared to outdoor air. A comparison of ΔP s to barometric pressure¹⁰ suggests no correlation.
- **Indoor vs. SUB18 (Plot B-2A and B).**
 - **January 2024**
 - ΔP s ranged from -0.282 inH₂O to -0.643 inH₂O, with the following stepwise changes in ΔP noted. A +0.09 inH₂O increase in pressure (decrease in vacuum)

¹⁰ Barometric pressure was derived from:

<https://www.wunderground.com/dashboard/pws/KORPORTL269/graph/2024-01-11/2024-01-11/daily>.

between January 13 to 14, 2024 is likely due to water present in the vent riser SSD01 (south leg). The water was the result of an unknown party making a plumbing modification to the vent riser. Upon learning of this modification, ENW repaired the vent riser and dewatered the system. A -0.27 inH₂O decrease in pressure (increase in vacuum) at 9:52 am on January 22, 2024, was attributed to the removal of the GAC units on SSD01 and SSD02.

- **April 2024**
 - ΔPs ranged from -0.759 inH₂O to -0.653 inH₂O, with generally decreasing pressure (increasing vacuum) over time. This is likely attributed with the drying out of the sub-grade materials through the operation of the SSD system. Differential pressure does not look to be affected by (is independent of) barometric pressure.
- **Indoor vs. SUB22 (Plot B-3A) and CT-14 (Plot-3B).**
 - **January 2024 (SUB22)**
 - ΔPs ranged from -0.283 inH₂O to -0.646 inH₂O. A +0.10 inH₂O increase in pressure (decrease in vacuum) was observed between January 13 to 14, 2024, due to the reason noted for indoor air vs. SUB18 above. A -0.28 inH₂O decrease in pressure (increase in vacuum) at 10:36 am on January 22, 2024, was observed, attributed to the removal of the GAC units on SSD01 and SSD02.
 - **April 2024 (CT14)**
 - Excluding the period when the flow meter was inadvertently unplugged, ΔPs ranged from -0.493 inH₂O to -0.452 inH₂O. Generally, decreasing pressure (increasing vacuum) was observed from April 15, 2024, through April 26, 2024, likely attributed to the drying out of the sub-grade materials through the operation of the SSD system. After April 26, 2024, differential pressures were generally stable. Differential pressure does not look to be affected by (is independent of) barometric pressure.

The plots of ΔPs and barometric pressure in Charts B-2 and B-3 suggests that SSD01 and SSD02 effectively depressurizes the NE warehouse sub-slab environment, thereby preventing intrusion of cVOC vapors. Comparison of sub-slab ΔPs to barometric pressure in plots B-2 and B-3 does not show evidence of correlation, suggesting that the ΔPs exerted by SSD system operation supersedes ΔPs exerted by atmospheric pressure changes.

Barometric Pressure and Temperature. Extreme changes in temperature can contribute to pressure differentials between the ground and atmosphere that may promote movement of soil gases in the absence of pressure differentials exerted by the SSD system. The effect of temperature on a gas held at constant volume is directly proportional to pressure.

ENW obtained barometric pressure and temperature data throughout the monitoring period from the Brooklyn Station KORPORTL269 located in Portland, Oregon.⁷ The barometric pressure and temperatures during the monitoring periods are summarized in Table 5-1 and 5-2, which shows:

- December 2023 through January 2024

- The daily maximum barometric pressure change over a day during the monitoring period was 0.58 inHg on January 16, 2024. No corresponding response is reflected in Charts B-2A or B-3A.
- The maximum 7-day average barometric pressure change of 0.31 inHg occurred during the fourth and fifth weeks of this monitoring period.
- The overall minimum low barometric pressure was 29.43 inHg on January 31, 2024, and maximum barometric pressure was 30.45 inHg on January 15, 2024.
- The daily maximum temperature change during the monitoring period was 21.5 °F on January 12, 2024.
- The maximum 7-day average temperature change of 11.8 °F occurred during the seventh week of this monitoring period.
- The overall minimum low temperature was 12.9 °F, and maximum temperature was 62.4 °F.
- April 2024
 - The daily maximum barometric pressure change over a day during the monitoring period was 0.4 inHg on April 3, 2024. No corresponding response is reflected in Chart B-2B or B-3B.
 - The maximum 7-day average barometric pressure change of 0.2 inHg occurred during the first, third, and fourth weeks of this monitoring period.
 - The overall minimum low barometric pressure was 29.7 inHg on April 12, 2024, and maximum barometric pressure was 30.4 inHg on April 15-17, and 21, 2024.
 - The daily maximum temperature change during the monitoring period was 30 °F on April 2, 18, and 23, 2024.
 - The maximum 7-day average temperature change of 20 °F occurred during the third week of this monitoring period.
 - The overall minimum low temperature was 40 °F, and maximum temperature was 78 °F.

Table 5-1. Summary of Barometric Pressure and Temperature during Fourth Quarter 2023 and First Quarter 2024

Date	Lo Temp	Hi Temp	Δ Temp	Lo Baro Press	Hi Baro Press	Δ Baro Press	Rise/ Fall/ Steady
	°F	°F	°F	inHg	inHg	inHg	R/F
12/13/2023	46.4	52.2	5.8	30.05	30.15	0.10	F
12/14/2023	44.6	51.8	7.2	30.07	30.23	0.16	R
12/15/2023	43.7	50.9	7.2	30.19	30.28	0.09	R/F
12/16/2023	33.6	51.4	17.8	30.14	30.20	0.06	F/R
12/17/2023	33.4	48.9	15.5	29.94	30.20	0.26	F
12/18/2023	42.6	47.1	4.5	29.53	29.96	0.43	F
12/19/2023	41.7	51.4	9.7	29.48	29.82	0.34	R
Average	40.9	50.5	9.7	29.91	30.12	0.21	
12/20/2023	37.2	52.3	15.1	29.81	30.06	0.25	R
12/21/2023	34.3	46.8	12.5	30.01	30.14	0.13	R/F
12/22/2023	36.3	47.8	11.5	29.98	30.31	0.33	R
12/23/2023	34.3	42.1	7.8	30.17	30.39	0.22	R/F
12/24/2023	34.3	43.3	9.0	30.01	30.25	0.24	R/S
12/25/2023	37.8	42.4	4.6	30.05	30.22	0.17	F
12/26/2023	41.2	47.3	6.1	29.83	30.23	0.40	S/F
Average	36.5	46.0	9.5	29.98	30.23	0.25	
12/27/2023	44.6	48.9	4.3	29.72	30.04	0.32	S/R
12/28/2023	42.6	51.1	8.5	29.96	30.13	0.17	R/F
12/29/2023	46.6	53.2	6.6	29.72	29.97	0.25	F/R
12/30/2023	40.8	53.1	12.3	29.86	30.15	0.29	R
12/31/2023	40.3	44.6	4.3	30.13	30.21	0.08	R/F/R
1/1/2024	36.5	49.6	13.1	30.10	30.26	0.16	S/F
1/2/2024	40.6	43.9	3.3	29.87	30.11	0.24	F
Average	49.2	7.5	29.91	30.12	0.22		
1/3/2024	39.6	50.9	11.3	29.93	30.18	0.25	R
1/4/2024	38.5	48.9	10.4	30.15	30.33	0.18	S/R
1/5/2024	37.6	49.8	12.2	29.92	30.43	0.51	R/F
1/6/2024	39.4	46.8	7.4	29.80	29.99	0.19	F/R
1/7/2024	39.6	46.6	7.0	29.97	30.18	0.21	R
1/8/2024	40.3	50.5	10.2	29.71	30.19	0.48	F
1/9/2024	33.8	49.8	16.0	29.57	29.94	0.37	R/F
Average	38.4	49.0	10.6	29.86	30.18	0.31	
1/10/2024	33.6	46.2	12.6	29.69	29.95	0.26	R
1/11/2024	37.9	43.3	5.4	29.91	29.99	0.08	R/F/R
1/12/2024	19.0	40.5	21.5	29.96	30.21	0.25	R
1/13/2024	12.9	19.0	6.1	29.74	30.19	0.45	F/R
1/14/2024	14.5	21.4	6.9	29.99	30.36	0.37	R
1/15/2024	19.4	27.0	7.6	30.30	30.45	0.15	R/F
1/16/2024	18.3	25.2	6.9	29.72	30.30	0.58	F
Average	22.2	31.8	9.6	29.90	30.21	0.31	
1/17/2024	24.8	33.8	9.0	29.56	30.00	0.44	F/R
1/18/2024	31.3	36.7	5.4	29.99	30.15	0.16	R/S
1/19/2024	32.4	35.6	3.2	29.78	30.07	0.29	F
1/20/2024	34.0	39.0	5.0	29.50	29.79	0.29	F/S
1/21/2024	37.0	42.3	5.3	29.45	29.59	0.14	F
1/22/2024	39.6	55.2	15.6	29.45	29.79	0.34	R
1/23/2024	42.6	54.5	11.9	29.79	29.98	0.19	R/F
Average	34.5	42.4	7.9	29.65	29.91	0.26	
1/24/2024	42.6	55.6	13.0	29.75	29.95	0.20	F/S/R
1/25/2024	42.3	53.6	11.3	29.94	30.20	0.26	R
1/26/2024	43.2	46.2	3.0	30.07	30.18	0.11	F/R
1/27/2024	44.2	62.4	18.2	30.03	30.13	0.10	F/R/S
1/28/2024	49.6	59.7	10.1	30.06	30.18	0.12	R/F
1/29/2024	46.4	62.1	15.7	29.92	30.11	0.19	F/R
1/30/2024	46.4	57.9	11.5	29.54	30.05	0.51	F
Average	45.0	56.8	11.8	29.90	30.11	0.21	
1/31/2024	47.1	53.8	6.7	29.43	29.56	0.13	F/S
Minimum	12.9	19.0	3.0	29.43	29.56	0.06	
Maximum	49.6	62.4	21.5	30.30	30.45	0.58	
Average	37.2	46.7	9.5	29.86	30.11	0.25	
https://www.wunderground.com/dashboard/pws/KORPORTL269/graph/2024-01-31/2024-01-31/daily							

Table 5-2. Summary of Barometric Pressure and Temperature during April 2024

Date	Lo Temp	Hi Temp	Δ Temp	Lo Baro Press	Hi Baro Press	Δ Baro Press	Rise/ Fall/ Steady
	°F	°F	°F	inHg	inHg	inHg	R/F
4/1/2024	42	70	28	30.0	30.2	0.2	R
4/2/2024	48	78	30	30.1	30.2	0.1	R
4/3/2024	45	53	8	29.9	30.3	0.4	F/R
4/4/2024	42	48	6	29.8	29.9	0.1	F
4/5/2024	41	53	12	29.8	30.0	0.2	R
4/6/2024	44	52	8	30.0	30.2	0.2	R
Average	44	59	15	29.9	30.1	0.2	
4/7/2024	46	56	10	30.2	30.3	0.1	S
4/8/2024	46	56	10	30.2	30.3	0.1	F
4/9/2024	49	65	16	30.2	30.3	0.1	R
4/10/2024	41	67	26	30.1	30.3	0.2	F
4/11/2024	45	65	20	29.9	30.1	0.2	F/S
4/12/2024	49	69	20	29.7	29.9	0.2	F
4/13/2024	48	67	19	29.8	29.9	0.1	R
Average	46	64	17	30.0	30.2	0.1	
4/14/2024	50	69	19	29.9	30.2	0.3	R
4/15/2024	48	57	9	30.2	30.4	0.2	R
4/16/2024	45	57	12	30.3	30.4	0.1	S
4/17/2024	40	65	25	30.3	30.4	0.1	S/F
4/18/2024	41	71	30	30.1	30.3	0.2	F
4/19/2024	52	70	18	29.9	30.1	0.2	F/S
4/20/2024	48	72	24	30.0	30.3	0.3	S/R
Average	46	66	20	30.1	30.3	0.2	
4/21/2024	42	62	20	30.2	30.4	0.2	R/F
4/22/2024	43	70	27	29.9	30.2	0.3	F
4/23/2024	47	77	30	29.8	30.0	0.2	F/R
4/24/2024	48	65	17	30.0	30.1	0.1	S
4/25/2024	43	58	15	29.8	30.0	0.2	F/S
4/26/2024	41	62	21	29.8	30.0	0.2	R
4/27/2024	50	56	6	30.0	30.1	0.1	S
Average	45	64	19	29.9	30.1	0.2	
4/28/2024	51	58	7	30.1	30.1	0.0	S
4/29/2024	46	56	10	30.0	30.1	0.1	R
4/30/2024	45	54	9	30.1	30.2	0.1	F/R
5/1/2024	44	59	15	30.0	30.3	0.3	S/F
5/2/2024	46	62	16	30.0	30.1	0.1	F/S
Average	46	58	11	30.0	30.2	0.1	
Minimum	40	48	6	29.7	29.9	0.0	
Maximum	52	78	30	30.3	30.4	0.4	
Average	45	62	17	30.0	30.2	0.2	
https://www.wunderground.com/dashboard/pws/KORPORTL269/graph/2024-01-31/2024-01-31/daily							

6.0 Building HVAC Evaluation

The building heating, ventilation, and air-conditioning HVAC was operated under normal parameters during the indoor air and sub-slab vapor/soil gas sampling events. Roof-top HVAC or ventilation systems are shown on Figure 5 of the *Monitoring Plan*.¹

7.0 Hazardous Materials Inventory

A hazardous materials inventory of the building was conducted on January 3, 2024. Completed product inventory forms are included in Appendix C. Of note, the following materials were observed during these inventories, the majority of which as stored in the basement in the southeast quadrant of the building:

- IA01 (NE Quadrant – main level)
 - Minwax Wood Finish (light aliphatic hydrocarbons, naphthenic petroleum oil, aliphatic solvent, cumene) – 1 pt, MasterSeal NP1 polyurethane sealant (limestone, titanium dioxide, talc, calcium oxide, Stoddard solvent, bis[s-[1-methylethyl]-3-oxazolidinyl]ethyl]hexan-1,2-diylbiscarbamate) – 10.1 oz, WD-40 (aliphatic hydrocarbons, petroleum base oil) – 14 oz aerosol, Rust-Oleum Painters Touch 2X Ultra Cover Satin Clear (acetone, propane, dimethyl carbonate, n-butyl acetate, 1-methoxy-2-propyl acetate, n-butane, xylenes, propylene glycol monobutyl ether, ethylbenzene) – 12 Oz aerosol, 30% vinegar – 1-gal, O'Reilly Synthetic Dot 3 Brake Fluid (triethylene glycol monobutyl ether, diethylene glycol monobutyl ether, triethylene glycol) – 12 oz, Rockler 100% Pure Tung Oil – 1 pt, Watco Danish Oil natural (Stoddard solvent, linseed oil, soybean oil, rosin adduct ester, solvent naphtha light aromatic) – 1 qt, West System 105 Epoxy Resin (Oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer, benzyl alcohol, Phenol, polymer with formaldehyde, glycidyl ether) – 1-gal, Jasco Green Odorless Mineral Spirits (hydrotreated light distillate petroleum) – 1-gal, Zep Acidic Toilet Bowl Cleaner (hydrochloric acid, amines tallow alkyl ethoxylated, dodecyldimethylamine oxide) – 1 qt, Tap Magic EP-Xtra Cutting Fluid (hydrotreated oil, paraffin wax compound) – 4 oz, Liquid Wrench Light Machine Oil (distillates petroleum hydrotreated heavy paraffinic) – 4 oz, Humalog Insulin Lispro Injection – 10 mL, Promarx Multipurpose Spray Glue (unknown) – 1.8 oz, Natural USP 100% Lanolin – 2 oz, Super Clean degreaser (sodium metasilicate, sodium hydroxide, surfactant blend) – 32 oz, Auto-Chlor System Trukleen multi-purpose citrus cleaner (sodium lauryl ether sulfate, dodecyldimethylamine oxide, citrus terpenes, sodium carbonate, amphoteric surfactant) 32 oz, Rust-oleum Never Wet Multi-Surface Liquid Repelling Barrier (1-Chloro-4-(Trifluoromethyl)Benzene, bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate) – 9 oz aerosol, Rapid Remover Adhesive Removal Formula (1-propoxypropan-2-ol, alcohols c9-11 ethoxylated, amides C8-18 and C18 unsatd, N,N-bis(hydroxyethyl) – 1-gal, Osmo Polyx-Oil Clear Satin (aliphatic hydrocarbons C10-C13) – 0.75-L, Titebond Genuine Hide Glue (ammonium thiocyanate) – 16 oz, Oatey Stain-Free Plumbers's Putty (limestone, polyester plasticizer, polyethylene, propylene glycol) – 9 oz, DAP CrackShot Spackling Paste (limestone, quartz) – 9 oz, 3-in-One Professional Grade Pneumatic Tool Oil (severely hydrotreated heavy paraffinic oil, dewaxed petroleum oil light) – 4 oz, Castin' Craft Mold Release/Conditioner (fluoro

polymer dispersion) – 4 oz, , Oxford Clear Gloss Nitrocellulose Lacquer (butyl acetate, xylenes, nitrocellulose) – 12 oz aerosol. Titebond Ultimate Wood Glue (non-hazardous) – 16 oz.

- IA01 (NE Quadrant - Back Hallway)
 - Bottcher Pro AR cleaner for ink rollers (2-aminoethanol, 2-(2-butoxyethoxy)ethanol, polypropylene glycol) - 1-L, voxeljet PolyPor Powder Type A (dibenzoyl peroxide, methyl methacrylate) – 12.5 kg, Sherwin Williams A-100 Exterior Acrylic Latex paint (titanium dioxide, zinc oxide) – 1-gal,
- IA01 (NE Quadrant - Foundry)
 - Marvel Air Tool Oil (Petroleum Distillates [hydrotreated heavy naphthenic], petroleum distillates [Stoddard solvent], tricresyl phosphate, ortho dichlorobenzene, para dichlorobenzene) – 4 oz, compressed oxygen – 2 cylinders, compressed argon – 2 cylinders, Evapo Rust (no hazardous ingredients) – 1-gal.
 - Alcohols, liquified petroleum gases, light petroleum distillates (benzene, toluene), and heavy petroleum naphthenes.
- IA02 (NW Quadrant)
 - Rubio Monocoat Oil Plus 2C comp. A pure (unknown) – 8 oz, Bostik GlideCote Table Lubricant (acetone, 1,1-difluoroethane, naphtha petroleum light alkylate, 2,2,4-trimethylpentane, naphtha petroleum hydrotreated heavy <0.1% benzene) – 10.75 oz, Great Stuff Big Gap Filler (polymethylene, polyphenyl, isocyanate, 4,4'methylene bisphenyl isocyanate, liquified petroleum mixture containing isobutane, propane, and dimethyl ether, propoxylated glycerin polymer, diphenyl methane diisocyanate, isomers and homologues, polymethylene polyphenyl polyisocyanate, polypropylene glycol copolymer, tris(1-chloro-2-propyl) phosphate – 16 oz.
 - Petroleum distillates (acetone, naphtha).
- IA03 (SW Quadrant – main level)
 - Not inventoried.
- IA04 (SE Quadrant - Basement)
 - Loxon XP Waterproofing Masonry coating (titanium dioxide, zinc oxide) – 1 gal, Chevron Rando HD ISO 46 hydraulic oil (distillates, hydrotreated heavy paraffinic) – 5 gal, Cetaphil Moisturizing Lotion – 20 oz, Drimarquette Two Super Marking Ink (unknown) – 6 oz, Enovation Product Glass Cleaner (unknown) – 19 oz aerosol, Zep Glass Cleaner (ethanol, ammonium dodecyl sulphate, tetrasodium ethylenediaminetetraacetate) – 19 oz aerosol, Multi Color Water-based ink (pigment, acrylic resin, water, ammonia) – 0.5-L, Sipa Antibacterial Wipes (benzalkonium chloride (100 pcs), Uline Tuff Scrub – Industrial (mineral seal oil, dipentene, propylene glycol, mineral oil 7, polyethylene, phenoxyethanol, triethanolamine) – 1-gal, Bernzomatic butane (liquified petroleum gas, N-butane, isobutane) – 14.1 oz, 3M Silicone Lubricant (isobutane, heptane, poly dimethylsiloxane) – 13.25 oz, Sprayon S00708 QTL Dry Lube (propane, butane, heptane, toluene, 2-propanol) – 10 oz aerosol, Weldbond Universal Space Age Adhesive (unknown)

– 8 oz, Miller AcriMax Eggshell paint (titanium dioxide, 2-butoxyethanol) – 1-gal, Airline 400XF Paint Marker (methylcyclohexane, isoparaffinic hydrocarbon, synthetic resin, carbon black) – 2.3 oz, Novus 1 Plastic Clean & Shine (isopropyl alcohol, polydimethylsiloxane [silanol terminated], dimethylpolysiloxane) – 8 oz, Magnum 44 Permanent Marker (2-nitropropane, nitromethane) – 3 pcs, T&R Brand Gum Turpentine (turpentine, vegetable) – 1-gal, Nazdar Ink Technologies 59000 series SV Enamel Screen Ink (Stoddard solvent, barium sulfate, carbon black, naphtha [petroleum, hydrotreated heavy], xylenes, 2-butanone [oxime], calcium 2-ethylhexanoate, ethylbenzene, cobalt compounds, hexanoic acid [2-ethyl, zinc salt]) – 1-gal, Rust-Oleum Painters Touch 2X Ultra Cover (acetone, propane, n-butyl acetate, n-butane, xylenes, propylene glycol monobutyl ether, Stoddard solvent, ethylbenzene, carbon black, solvent naphtha [light aromatic], methyl ethyl ketoxime, cobalt 2-ethylhexanoate, naphtha [hydrotreated heavy], zirconium acetate) – 12 oz aerosol, Permatex Belt Dressing and Conditioner (n-hexane, naphtha petroleum [hydrotreated light], butane, propane, sodium nitrite, cyclohexane) – 10 oz, AC5.5 Power Fastener (epoxy acrylate [modified vinyl ester], fumed silica, quartz, dibenzoyl peroxide) – 5.5 oz, Bernzomatic MAPP Gas (propane, propylene) – 16 oz, Henry 546 Feather Edge Additive (no hazardous ingredients) 1-qt, SSS Enzyme Deodorant (Poly(oxy-1,2-ethanediyl), alpha-octyl- omega-hydroxy-, fragrance, Benzenesulfonic acid, dodecyl(sulfophenoxy)-, disodium salt, 2-Propenoic acid, 2-methyl-, polymer with ethylbenzene) – 1-gal, Henry 430 Floor Tile Adhesive (no hazardous ingredients) – 1-gal, Carlon Multi-Purpose PVC Cement (tetrahydrofuran, methyl ethyl ketone, acetone, PVC resin, cyclohexanone, amorphous fumed silica) – 4 oz, 3M Indoor/Outdoor Caulk Remover (water, dimethyl adipate, dimethyl glutarate, smectite) ½-pt, Red Band Painters Thinner (petroleum distillates) – 16 oz, Brite Boy Metal Polish (ammonium hydroxide) – 32 oz, AC55 Powers Fasteners (epoxy resin) – 5 oz, Vulkem 116 polyurethane sealant (aromatic polycyanide resin) – 10 oz.

- Alcohols, VOCs (acetone, ethylbenzene, methyl ethyl ketone, xylenes, petroleum distillates (naphthalene, Stoddard solvent), petroleum hydrocarbons, inks (various) and ink thinners.

8.0 Indoor/Outdoor Air Quality Testing

In January and April 2024, ENW performed indoor/outdoor air quality testing per the strategy in Table 8.1 below.

Table 8-1. Indoor / Outdoor Air Sampling Strategy

24-L SUMMA canisters / TO-15 analysis	Radiello passive samplers	Objectives
One set of four 20-day indoor air samples (IA01 through IA04)	One set of four 28-day indoor air samples (IA01 through IA04)	To compare PCE and TCE concentrations derived from analyses of SUMMA canisters versus Radiello passive samplers over similar time frames and provide results for additional COPCs, as requested by ODEQ that cannot be tested using Radiello samplers.
One 20-day outdoor air sample (OA01)	---	To determine the relative concentrations of COCs in indoor vs. outdoor air.

8.1 Method of Collection

Indoor air samples were collected using both Radiello passive samplers and four pre-certified 6-liter SUMMA canisters per sample,¹¹ and the outdoor upwind air sample was collected using a pre-certified 24-liter SUMMA canister at the locations described in Table 8-2 and shown on Figure 3. All field measurements were recorded on field sampling data sheets (FSDS) included in Appendix D.

Passive Radiello indoor air samples, indoor air SUMMA canister samples, and the outdoor air SUMMA canister sample were collected using the protocols outlined in the *Monitoring Plan*.¹

- Indoor Radiello Samples IA01-IA04 (28-day, January 3-31, 2024 and April 4-May 2, 2024). Passive Radiello samplers were suspended at a height of six feet above the floor level at their respective locations in each of the building's four quadrants. Placards were affixed to each Radiello sampler to note that air sampling was in progress and to not tamper with the samplers. Radiello samplers were checked on periodically to confirm they had not been disturbed. Radiello samples were retrieved after approximately 28 days or 669 hours of continuous sampling. Absorbent cartridges were removed from the passive samplers and placed back into their sampling tubes, labeled, packaged, and shipped via FedEx to Con-Test laboratory of East Longmeadow, Maine under chain-of-custody protocols.
- Indoor SUMMA Sample IA01-IA04 (20-day, January 11-31, 2024 and April 12-May 2, 2024). After approximately 480 hours (once the vacuum pressure in the four x four manifolded SUMMA canisters dropped to between -11 to -15 inches of mercury [inHg]),¹² the SUMMA canister valve was closed and sampling was terminated, and the final time and pressure were recorded. The SUMMA canisters were appropriately labeled, packaged, and shipped via FedEx to Environmental Analytical Services, Inc. (EAS) of San Luis Obispo, California under chain-of-custody protocols.

¹¹ Four pre-certified 6-liter SUMMA canisters were manifolded together for each 20-day indoor air sample and the 20-day outdoor air sample.

¹² While the gauges registered -11 to -15 inHg when the test was terminated, pressures recorded when the SUMMA canisters were received by the lab ranged from -18 to -22 inHg (461 to 553 Torr).

- Outdoor SUMMA Sample (20-day, January 11-31, 2024 and April 12-May 2, 2024). After approximately 480 hours, the SUMMA canister valve was closed, sampling terminated, and the final time and pressure four manifolded SUMMA canisters were recorded.¹³ The SUMMA canisters were appropriately labeled, packaged, and shipped via FedEx to EAS of San Luis Obispo, California under chain-of-custody protocols.

Table 8-2. Indoor / Outdoor Air Sample Locations

Sample Location ID	Dates Sampled	Height Sampled (ft)	Sample Type	Sampled By	Location
IA01-240131	1/11-31/2024	4.5	SUMMA Canister	ENW	Warehouse space (NE Quadrant)
IA01	1/03-31/2024	6	Radiello Passive	ENW	
IA01-240502	4/12-5/2/2024	4.5	SUMMA Canister	ENW	
IA01	4/4-5/2/2024	6	Radiello Passive	ENW	
IA02-240131	1/11-31/2024	4.5	SUMMA Canister	ENW	Office/work area (NW Quadrant)
IA02	1/3-31/2024	6	Radiello Passive	ENW	
IA02-240502	4/12-5/2/2024	4.5	SUMMA Canister	ENW	
IA02	4/4-5/2/2024	6	Radiello Passive	ENW	
IA03-240131	1/11-31/2024	4.5	SUMMA Canister	ENW	Front work/office area in Irwin Hodson, (SW Quadrant)
IA03	1/03-31/2024	6	SUMMA Canister	ENW	
IA03-240502	4/12-5/2/2024	4.5	SUMMA Canister	ENW	
IA03	4/4-5/2/2024	6	Radiello Passive	ENW	
IA04-240131	1/11-31/2024	4.5	Radiello Passive	ENW	Back production room of Irwin Hodson (SE quadrant)
IA04	1/03-31/2024	6	SUMMA Canister	ENW	
IA04-240502	4/12-5/2/2024	4.5	SUMMA Canister	ENW	
IA04	4/4-5/2/2024	6	Radiello Passive	ENW	
OA01-240131	1/11-31/2024	4.5	SUMMA Canister	ENW	NE corner of building, with intake 3-4 feet above the highest section of the roof (upwind)
OA01-240502	4/12-5/2/2024	4.5	SUMMA Canister	ENW	

8.2 Method of Analysis

Indoor/outdoor air samples were analyzed according to the analytical methods presented in Table 8-3. Indoor/outdoor air SUMMA samples were analyzed by EAS of San Luis Obispo, California. Passive Radiello indoor air samples were analyzed by Con-Test of East Longmeadow, Maine. Laboratory analytical reports are included in Appendix E.

¹³ While a final vacuum pressure reading of 0 appeared on the gauge for the SUMMA deployed at OA01, the lab recorded a vacuum pressure of 31 inHg, suggesting that the gauge was not measuring accurately.

Table 8-3. Analytical Methods – Indoor Air

Analytical Method	Constituents	Indoor Air	Outdoor Air
TO-15	Benzene, Carbon Tetrachloride, Chloroform, EDB (1,2-Dibromoethane), EDC (1,2-dichloroethane), Ethylbenzene, Naphthalene, PCE (Tetrachloroethene), 1,1,2-Trichlorethane, and TCE	All	All
RAD 130 (TO-17 By solvent desorption or thermal desorption of Radiello passive sampler)	1,1-Dichloroethene (DCE), cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, Vinyl Chloride	All	---

8.3 Analytical Results

Indoor/outdoor air analytical results are presented in Table 1.

RAOs. Analytical results confirm that the RAO for Indoor Air is being met. *Specifically, TCE concentrations in indoor air do not exceed the primary RAO of 3.0 µg/m³.*

Further, TCE concentrations in indoor air do not exceed the residential VI RBC of 0.48 µg/m³. While low concentrations of TCE were detected in the SUMMA samples, TCE was not reported above the laboratory method reporting limit (MRL) in the Radiello samples.

ODEQ Performance Monitoring Request. ODEQ requested that additional COPCs be sampled and evaluated during performance monitoring. These COPCs do not have RAOs and are evaluated against:

- Commercial VI (indoor air) RBCs.

Results for any COPCs exceeding either of these indoor air RBCs are described below:

- Benzene was detected in the 20-day SUMMA sample IA01, IA02 and IA04 collected in January 2024, at a concentration above its commercial VI RBC of 1.6 µg/m³ though within the range of benzene detected in outdoor air sample OA01. This data suggests an outdoor rather than indoor source of benzene. Benzene concentrations during the April 2024 sampling event were below its commercial VI RBC.
- Chloroform was detected in the 20-day SUMMA sample IA03 collected in January 2024, at a concentration slightly above its commercial VI RBC of 0.53 µg/m³. The detection is just slightly less than the maximum pre-SSD detection, suggesting that the source of chloroform is in indoor air and not sub-slab vapor. Since domestic water is supplied by the City of Portland and this water source is chlorinated, it is likely that indoor air concentrations of chloroform are related to water use within the building.
- Ethylbenzene was detected in the 20-day SUMMA sample IA03 and IA04 during both sampling events, at concentrations above its commercial VI RBC of 4.9 µg/m³. The maximum detection is about the same as the maximum pre-SSD detection, suggesting that the source of ethylbenzene is in indoor air and not sub-slab vapor. The numerous products stored onsite containing petroleum distillates identified in the inventory (Section 7) are the likely source of ethylbenzene in indoor air.

- Carbon tetrachloride, EDC, naphthalene, and GRO were detected in the 20-day SUMMA samples at concentrations less than their respective commercial VI RBCs. Additionally, the maximum post-SSD concentrations of carbon tetrachloride, EDC and naphthalene were within the range of outdoor air, suggesting an outdoor rather than indoor source of these constituents.
- PCE was detected at a maximum concentration of 1.927 $\mu\text{g}/\text{m}^3$ in the SUMMA samples and 5.6 $\mu\text{g}/\text{m}^3$ in the Radiello samples. Consistently, the Radiello passive sample results were higher than the SUMMA sample results, with a range of relative percent difference (RPD) between 58% and 142%, suggesting a high bias in the passive Radiello samples. All detections were less than the commercial VI RBC of 47 $\mu\text{g}/\text{m}^3$.
- The remaining COPCs were less than laboratory MRLs.

8.4 Quality Assurance / Quality Control

Validation suggests that indoor and outdoor data are valid for the intended usage. An analytical laboratory data validation check sheet is provided in Appendix F.

9.0 Soil Gas and Sub-Slab Vapor Sampling

In the first quarter and second quarter of 2024, ENW performed soil gas screening and sampling and sub-slab vapor screening and sampling at the subject site.

9.1 Method of Collection

To assess subsurface soil vapors beneath the remediated NE warehouse and north-, west-, and south-adjacent spaces, ENW collected samples from nine (9) soil gas probes, ten (10) sub-slab vapor pins, and two (2) communication test pins previously installed during implementation of the RAWP. Field sampling activities were conducted in general accordance with the methods and procedures presented in ODEQ's "Guidance for Assessing and Remediating Vapor Intrusion in Buildings."¹⁴

Soil Gas Sampling Locations. Samples were collected from semi-permanent soil gas probes installed during implementation of the RAWP. Four of the probes are nested with dedicated probes set respectively at 5 feet (5.25') and 10 feet (9.75'), i.e., SG10-5/SG10-10 through SG13-5/SG13-10. SG14 is a deep probe screened in native soils from approximately 16.5 feet to 18.5 feet bgs. Table 9-1 describes the sample locations and collection dates.

¹⁴ ODEQ, 2010. *Guidance for Assessing and Remediating Vapor Intrusion in Buildings* dated March 2010, last updated May 29, 2020.

Table 9-1. Soil Gas Sample Locations

Sample Location ID	Dates Sampled	Depth Sampled (ft)	Sampled By	Inside or Outside the SRA	Location
SG10	1/31/2023	5.25	ENW	Outside	North-central part of warehouse (WH), ~3' north of GS61 and remedial excavation.
	2/1/2023	9.75	ENW	Outside	
	5/2/2024	5.25	ENW	Outside	
	5/2/2024	9.75	ENW	Outside	
SG11	1/31/2023	5.25	ENW	Outside	E side of WH, ~12' E of equipment pad and 7' E of remedial excavation.
	2/1/2023	9.75	ENW	Outside	
	5/2/2024	5.25	ENW	Outside	
	5/2/2024	9.75	ENW	Outside	
SG12	1/31/2023	5.25	ENW	Outside	Hallway S of WH, ~48' E of W wall, and ~18' S of remedial excavation S wall .
	2/1/2023	9.75	ENW	Outside	
	5/2/2024	5.25	ENW	Outside	
	5/2/2024	9.75	ENW	Outside	
SG13	2/1/2023	5.25	ENW	Outside	NW tenant space ~22' W of remedial excavation NW wall, next to SUB13.
	2/1/2023	9.75	ENW	Outside	
	5/3/2024	5.25	ENW	Outside	
	5/3/2024	9.75	ENW	Outside	
SG14	1/31/2023	16.5-18.5	ENW	Inside	N of equip pad in deep remedial excavation and ~22' E of excavation W wall, by SUB22.
	5/3/2024				

Sub-slab Vapor and Communication Test Point Sampling Locations. Select communication test points and sub-slab vapor samples were collected from semi-permanent stainless-steel Vapor Pin[®] inserts installed during implementation of the RAWP.

Table 9-2 describes the sample locations and collection dates.

Table 9-2. Sub-Slab Vapor Sample Locations

Sample Location ID	Date Sampled	Depth Sampled	Sampled By	Inside or Outside the SRA	Location
SUB13	1/31/2023	0.5	ENW	Outside	NW tenant space ~22' W of remedial excavation NW wall, next to SG13.
	5/3/2024				
SUB14	1/31/2023			Outside	N of equip pad ~22' E of excavation W wall, co-located with SG14
	5/2/2024				
SUB15	1/31/2023			Outside	NE tenant space ~21' N of remedial excavation N wall and ~13' W of NW excavation corner.
	5/2/2024				
SUB16	1/31/2023			Outside	E side of warehouse, ~12' E of equip pad and 7' E of excavation, next to SG11.
	5/2/2024				
SUB17	1/31/2023			Inside	Immediately N of equip pad in central portion of northern excavation.
	5/3/2024				
SUB18	1/31/2023			Inside	SW part of warehouse, within remedial excavation ~6' N and ~20' E of SW corner.
	5/2/2024				
SUB19	1/31/2023			Outside	Hallway S of WH, ~48' E of W wall, and ~18' S of remedial excavation S wall, by SG12.
	5/2/2024				
SUB20	1/31/2023			Outside	By hydraulic lift, ~13' S and ~11' W of SW corner of WH.
	5/2/2024				
SUB21	1/31/2023			Outside	E wall of room W of conference room and 20' W of remedial excavation.
	5/2/2024				
SUB22	1/31/2023			Inside	N of equip pad, ~22' E of excavation W wall, co-located with SG14.
	5/2/2024				
CT16	1/31/2024			Outside	Near the northeast corner of the northwest quadrant in the woodworking shop
CT17	1/31/2024			Outside	Near the northeast corner of the northeast quadrant next to the loading dock
	5/2/2024				

Notes: SRA = soil removal action

Initial “Shut-In” Leak Testing. Leak testing was performed over a minimum of 5 minutes. Sampling manifolds were tested for leaks by shutting the inlet valve on the manifold and applying a vacuum using a pre-evacuated SUMMA cannister. Pressure was monitored using the attached vacuum gauge. Any drop in pressure suggested a potential leak in the system. If pressure was not maintained, all connections were rechecked, and the leak test repeated until no drop in vacuum was observed over the 5-minute period.

Sample Collection. Teflon sample tubing from each sampling point was connected to a sample manifold, which in turn was connected to two (2) laboratory-supplied SUMMA cannisters. One (1) 6-liter SUMMA cannister served as a purging vessel and one 3-Liter batch-certified Summa cannister was used at each location for collecting the sample.

Prior to the start of sample collection, each system was purged to remove approximately three volumes of stagnant air from the sample train.

Sampling was initiated by opening the valve on the batch-certified SUMMA canisters. Soil gas/sub-slab vapor sampling rates were maintained at a flow rate below approximately 167 milliliters per minute (mL/min) by a calibrated flow regulator attached to the SUMMA cannister. Rags treated with isopropyl alcohol (2-propanol or IPA) were placed over sample train connections and Vapor Pin® or soil gas tooling to provide secondary leak detection during sample collection.

Sampling was terminated when a sufficient volume of sample had been collected, indicated by negative pressure readings of 5 inches mercury or less. Sample data recorded by the ENW personnel were recorded onto FSDS included in Appendix D.

Field Screening. Following sample collection, a photoionization detector (PID) and landfill gas meter were used to screen soil gas and sub-slab vapor for VOCs.

9.2 Method of Analysis

Soil gas and sub-slab vapor samples were uniquely labelled, packaged, and shipped to EAS of San Luis Obispo, California under chain-of-custody protocols. Soil gas and sub-slab vapor samples were analyzed for petroleum hydrocarbons and select VOCs according to the analytical methods presented in Table 9-3. Sample locations are presented with respect to differential sub-slab pressures and sub-slab vapor concentrations in Figures 4 and 5, respectively. Laboratory analytical reports are included in Appendix F.

Table 9-3. Analytical Methods – Sub-Slab Vapor/Soil Gas

Analytical Method	Constituents	Sub-Slab Vapor / Soil Gas
TO-15	Benzene, Carbon Tetrachloride, Chloroform, EDB (1,2-dibromoethane), EDC (1,2-dichloroethane), Ethylbenzene, Naphthalene, PCE, 1,1,2-Trichlorethane, TCE, gasoline-range organics and IPA (leak check)	All

9.3 Field Screening Results

Field screening results are presented in Table 9-4 (soil gas) and Table 9-5 (sub-slab vapor).

Table 9-4. Soil Gas Screening Results

Location ID		SG10				SG11				SG12				SG13				SG14	
Date Sampled		2/1/2024	5/2/2024	2/1/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	2/1/2024	5/3/2024	2/1/2024	5/3/2024	1/31/2024	5/3/2024
Depth Sampled (ft)		5.25		9.75		5.25		9.75		5.25		9.75		5.25		9.75		16.5-18.5	
Sampled by		ENW				ENW				ENW				ENW				ENW	
Location		North-central part of warehouse (WH), ~3' north of GS61 and remedial excavation.				E side of WH, ~12' E of equipment pad and 7' E of remedial excavation.				Hallway S of WH, ~48' E of W wall, and ~18' S of remedial excavation S wall .				NW tenant space ~22' W of remedial excavation NW wall, next to SUB13.				N of equip pad in deep remedial excavation and ~22' E of excavation W wall, by SUB22.	
Parameter of interest		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
Note:		1	1.1	1.3	0.4	0.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	---	0.1	0.0
PID (Total Volatiles)		1	1.1	1.3	0.4	0.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.0	---	0.1	0.0
Methane (%)		2	0.1	---	0.1	---	0.2	---	0.2	0.2	0.1	0.1	0.2	0.2	0.1	---	0.1	---	0.1
Carbon Dioxide (%)		2	0.1	0.1	0.6	0.5	0.4	0.4	0.7	0.5	1.4	0.8	2.7	1.7	1.2	1.1	1.4	---	0.1
Oxygen (%)		2	21.0	21.2	20.4	20.4	20.8	20.8	20.6	20.9	18.4	20.7	14.7	19.9	19.8	19.9	19.2	---	20.8
CO (ppmv)		2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0
H2S (ppmv)		2	0.0	---	0.0	---	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	---	0.0	---

1 = Photoionization detector

2 = GEM Landfill Gas Meter

ppmv = parts per million, volume

Table 9-5. Sub-slab Vapor Screening Results

Sample ID		SUB13		SUB14		SUB15		SUB16		SUB17		SUB18		SUB19		SUB20		SUB21		SUB22		CT16		CT17	
Date Sampled		2/1/2024	5/3/2024	2/1/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	2/1/2024	5/3/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	5/2/2024	1/31/2024	2/1/2024	5/2/2024	
Depth Sampled (ft)		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5	
Sampled by		ENW		ENW		ENW		ENW		ENW		ENW		ENW		ENW		ENW		ENW		ENW		ENW	
Location		NW tenant space ~22' W of remedial excavation NW wall, next to SG13.		N of equip pad in deep remedial excavation and ~22' E of excavation W wall, by SUB22.		NE tenant space ~21' N of remedial excavation N wall and ~13' W of NW excavation corner.		E side of warehouse, ~12' E of equip pad and 7' E of excavation, next to SG11.		Immediately N of equip pad in central portion of northern excavation.		SW part of warehouse, within remedial excavation ~6' N and ~20' E of SW corner.		Hallway S of WH, ~48' E of W wall, and ~18' S of remedial excavation S wall, by SG12.		By hydraulic lift, ~13' S and ~11' W of SW corner of WH.		E wall of room W of conference room and 20' W of remedial excavation.		N of equip pad in deep remedial excavation and ~22' E of excavation W wall, by SG14.		Near the northeast corner of the northwest quadrant in the wood-working shop.		Near the northeast corner of the northeast quadrant next to the loading dock.	
Parameter of interest	Note:	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	
PID (Total Volatiles)	1	4.0	0.0	0	11.6	1.4	0.7	0.0	0.9	0.0	2.4	0.0	0.1	0.0	0.1	0.0	0.0	2.0	0.9	0.5	0.0	0.0	3.9	2.3	
Methane (%)	2	0.2	---	0.1	---	0.1	---	0.2	0.2	0.2	---	0.1	---	0.1	0.2	0.1	0.2	0.1	0.1	0.2	---	0.1	0.1	---	
Carbon Dioxide (%)	2	0.3	0.2	0.1	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.2	0.1	0.1	0.2	0.6	0.3	
Oxygen (%)	2	20.7	20.8	21.0	20.7	20.8	21.3	20.8	21.1	21.0	21.0	21.1	21.2	20.8	21.3	20.7	21.1	21.0	21.0	21.0	21.1	20.8	20.9	20.8	
CO (ppm)	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H2S (ppmv)	2	0.0	---	0.0	---	0.0	---	0.0	0.0	0.0	---	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	0.0	---	

1 = Photoionization detector

2 = GEM Landfill Gas Meter

ppmv = parts per million, volume

9.4 Analytical Results

Soil gas and sub-slab vapor analytical results are presented in Table 2. This data provides a snapshot of ongoing conditions beneath the building slab in the NE Quadrant (area of SRA and active SSD system). Concentrations are evaluated against occupational RBCs for *uncontrolled* migration of sub-slab vapor into indoor air. However, in considering these results, the reader is asked to keep in mind that remedial action measures have been implemented, controlling potential migration of vapors to indoor air.

- **TCE.** The single COC identified for the site continues to be present beneath the building slab. The maximum detected concentration (29,818 $\mu\text{g}/\text{m}^3$) was detected in SUB14 during the May 2024 sampling event. Residual TCE in soil gas / sub-slab vapor exceeds its commercial VI RBC¹⁵ of 100 $\mu\text{g}/\text{m}^3$ encompassing the area north and west of the SRA defined by sample locations CT16, SUB13, SUB20, SUB17, SUB16, just northeast of CT17, and just north of SUB15. A TCE isopleth contour map is included in Figure 5.

TCE concentrations in soil gas were higher in the shallower nested soil gas probes than deeper probes, suggesting a residual source of TCE is in shallow soil under the building slab, which is consistent with residual soil data following the focused soil removal action.²

Based on the current dataset, a 98% reduction in sub-slab/soil gas TCE is suggested by comparing the maximum pre-SSD TCE concentration to the maximum post-SSD TCE concentration. Based on the detections of TCE relative to the soil removal action, these results suggest that operation of the SSD system has resulted in effective sub-slab depressurization, as evidenced by lower post-SSD sub-slab concentrations of TCE throughout the SRA (except for SUB14) and surrounding impacted soil zone underlying the northeastern- and northwesternmost portions of the Irwin Hodson building.

- **Chloroform.** With one exception, concentrations were less than its commercial VI RBC of 18 $\mu\text{g}/\text{m}^3$. Chloroform was detected in SUB14 at a concentration up to 28.68 $\mu\text{g}/\text{m}^3$ (2nd quarter 2024). A 79.5% reduction in chloroform has been achieved by comparing the maximum pre-SSD chloroform concentration to the maximum post SSD chloroform concentration.
- **1,1,2-trichloroethane (TCA).** Concentrations of 1,1,2-trichloroethane (TCA) detected in SG10-5, SG10-10, SG13-5, and SUB14 exceeded ODEQ's commercial VI RBC of 26 $\mu\text{g}/\text{m}^3$. A comparison of the maximum pre-SSD TCA concentration to the maximum post SSD TCA concentration shows that a 48.6% reduction in TCA has been achieved.
- **Naphthalene.** With two exceptions, naphthalene concentrations were less than its commercial VI RBC of 12 $\mu\text{g}/\text{m}^3$. Naphthalene was detected in SUB17 during the first quarter 2024 sampling event at a concentration of 13.28 $\mu\text{g}/\text{m}^3$ and SUB20 during the second quarter 2024 sampling event at a concentration of 14.26 $\mu\text{g}/\text{m}^3$. A 69.9% reduction in naphthalene has been achieved by comparing the maximum pre-SSD naphthalene concentration to the maximum post SSD naphthalene concentration.

¹⁵ In previous Performance Monitoring and Investigation reports, soil gas/sub-slab vapor concentrations were compared to ODEQ's former soil gas vapor intrusion into buildings RBC of 2,900 $\mu\text{g}/\text{m}^3$ for occupational workers. ODEQ updated its Guidance for Assessing and Remediating Vapor Intrusion into Buildings (Draft) and established revised VI RBCs in March 2024.

- **Other VOCs.** All other VOC concentrations were less than ODEQ's commercial VI RBCs.
- **Leak Detection.** With one exception, IPA concentrations were less than ENW's in-house screening level of 5,000 µg/m³. IPA in SG11-10 during the 1st quarter 2024 exceeded ENW's In-House screening level of 5,000 µg/m³. A numeric calculation of the contribution of ambient air into the sub-slab vapor sample using a more realistic value of 40 percent mixture of 2-propanol in ambient air results in an estimated contribution of 0.24%, which is within the acceptable five (5) percent maximum contribution standard. Calculation of actual contribution of leak detection compound indicates sampling integrity was preserved in all soil gas and sub-slab vapor samples during this sampling event.

9.5 Trends Analysis

Soil gas / sub-slab TCE trends are plotted for several of the sampling points, located within and outside of the former soil removal area, as shown in Charts E-1 and E-2 in Appendix E and discussed below.

Chart E-1. For sub-slab vapor samples, all show seasonal variations in TCE concentration prior to the activation of the SSD system, with the highest occurring during the second or third quarters of 2022 followed by lower TCE concentrations in the fourth quarter 2022 and first quarter 2023. Following activation of the SSD system, TCE concentrations in sub-slab vapor decreased to the lowest concentrations since monitoring sub-slab vapor. General trends as of May 2024:

- TCE concentrations at SUB13 (1st quarter 2024), SUB14, SUB15, SUB20, and SUB21, exceeded the commercial VI RBC (Primary RAO) of 100 µg/m³ during both post-SSD sampling events. Additional post-SSD data is needed to determine any trends in the post-SSD activation data.
- TCE concentrations at SUB13 (2nd quarter 2024), SUB16, SUB17, SUB18, and SUB19 did not exceed the Primary RAO, though did prior to SSD activation.

Chart E-2. For soil gas sample locations, all show seasonal variations in TCE concentration prior to SSD activation, with the highest occurring during the second or third quarters of 2022 with subsequent decreasing concentrations in the fourth quarter 2022. As with sub-slab vapor, soil gas concentrations decreased further following the activation of the SSD system. General trends as of May 2024:

- TCE concentrations in SG11-5 and -10, SG12-5, SG14 are all less than the Primary RA.
- TCE concentrations in SG10-5 and -10, SG12-5, and SG13-5 and -10, exceeded the Primary RAO up through the 2nd quarter 2024. Additional post-SSD data is needed to determine any trends in the post-SSD activation soil gas data.

9.6 Quality Assurance / Quality Control

Validation suggests that soil gas and sub-slab vapor data are valid for the intended usage. An analytical laboratory data validation check sheet is provided in Appendix F.

10.0 Discussion

This is the first semester performance monitoring conducted since the activation of the SSD system, with five quarters of monitoring prior to SSD activation and two quarters of monitoring following SSD system activation. Based on the results of this monitoring:

- **The RD/RA has effectively met the RAOs:**
 - Occupational receptors are prevented from coming into direct contact with possible arsenic-enriched soil under the building.
 - Indoor air concentrations of TCE are consistently below the primary RAO.
- **Improved indoor air quality.** Implementation of the RD/RA has effectively reduced TCE concentrations in indoor air to below indoor air RAOs.
 - It should be noted that data collected following SSD activation suggests a possible high bias in the reported indoor air concentrations for PCE in the Radiello samples compared to the 20-day Summa canisters results.
- **A reduction of TCE in sub-slab vapor/soil gas.** Overall, the concentration of TCE in sub-slab vapor was reduced approximately 98% following the focused SRA and activation of the SSD system.
- **SSD negative pressure field extension.** Differential pressure data collected post SSD activation between the sub-slab environment and indoor air demonstrates the SSD system creates a negative pressure differential in the sub-slab environment beneath the entire NE portion of the warehouse.
- *Evaluation of additional COPCs requested by ODEQ has not identified any constituents exceeding their respective occupational RBCs, confirming that these are not COCs, with the possible exceptions of benzene, chloroform, EDB, ethylbenzene, naphthalene in indoor air in portions of the building. However, given the extensive use of paints, adhesives, cleaners, and lubricants in these portions of the building (see Section 6.0) and well as the use of as chlorinated domestic water supply, it is likely that contributions of these constituents in indoor air are related interior sources and not from residual impacts beneath the building. Specific observations related to the storage of hazardous materials in the building include:*
 - *There are numerous oils, lubricants, inks, and adhesives that contain “petroleum distillates” or “VOCs” or “petroleum hydrocarbons.” Several of these containers were observed to be open and are actively being used.*
 - *Several products observed primarily in the NW and SE quadrants, were noted to contain benzene, ethylbenzene, and/or naphthalene, e.g., Plasti-Dip, Deft Clear Wood Finish, Zinnser, Daly’s Profin, Envirotex Spray Sealer, Gold NC-Acrylic spray paint, Mtn 94 spray paint, Rust-Oleum aerosol spray paints, Bostik GlideCote Table & Tool Surface lubricant, and Diagraph Quik Spray Marking Ink.*

11.0 Limitations

The scope of this report is limited to observations made during on-site work; interviews with knowledgeable sources; and review of readily available published and unpublished reports and literature. As a result, these conclusions are based on information supplied by others as well as interpretations by qualified parties.

The focus of the work does not extend to the presence of the following conditions:

1. Naturally occurring toxic or hazardous substances in the subsurface soils, geology, and water,
2. Toxicity of substances common in current habitable environments, such as stored chemicals, products, building materials and consumables,
3. Contaminants or contaminant concentrations that are not a concern now but may be under future regulatory standards,
4. Unpredictable events that may occur after ENW's site work, such as illegal dumping or accidental spillage.

There is no practice that is thorough enough to absolutely identify the presence of all hazardous substances that may be present at a given site. ENW's investigation has been focused only on the potential for contamination that was specifically identified in the Scope of Work. Therefore, if contamination other than that specifically mentioned is present and not identified as part of a limited Scope of Work, ENW's environmental investigation shall not be construed as a guaranteed absence of such materials. ENW has endeavored to collect representative analytical samples for the locations and depths indicated in this report. However, no sampling program can thoroughly identify all variations in contaminant distribution.

We have performed our services for this project in accordance with our agreement and understanding with the client. This document and the information contained herein have been prepared solely for the use of the client.

ENW performed this study under a limited scope of services per our agreement. ENW assumes no responsibility for conditions that we did not specifically evaluate or conditions that were not generally recognized as environmentally unacceptable at the time this report was prepared.

Table 1 - Summary of Analytical Data, Indoor/ Outdoor Air

Location ID		IA01														
Sample ID		IA01-191120	IA01-200908	IA01-220131	IA01-220408	IA01-220429	IA01-220715	IA01-220729	IA01-221007	IA01-221031	IA01-230109	IA01	IA01-240131	IA01	IA01	IA01-240502
Date Sampled		11/20/2019	9/8/2020	1/3-31/2022	4/4/2022	4/29/2022	7/11/2022	7/29/2022	10/3/2022	10/3-31/2022	1/4-9/2023	1/3-31/2023	1/11-31/2024	1/03-31/2024	4/4-5/2/2024	4/12-5/2/24
Height Sampled		4.5	4.5	4.5	4.5	~6	4.5	5.5	6	6	4.5	6	4.5	6	6	4.5
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		Warehouse space for FORM / Irwin Hodson (NE Quadrant)														
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Volatile Organic Constituents																
Benzene	c, v	---	0.91 J	---	0.082 J	---	0.341	---	0.713	---	0.847	---	1.794	---	---	0.590
Carbon tetrachloride	c, v	1.916	0.327	---	0.101	---	0.212	---	0.205	---	0.308	---	0.865	---	---	0.295
Chloroform	c, v	0.204	0.124	---	<0.049 (ND)	---	0.095	---	0.308	---	0.148	---	0.286	---	---	0.089
1,1-Dichloroethene	nc, v	<0.036 (ND)	<0.036 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	< 0.30 (ND)	< 1.0 (ND)	---
cis-1,2-Dichloroethene	nc, v	< 0.040 (ND)	<2.13 (ND)	<0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	---	---	< 0.060 (ND)	< 0.20 (ND)	---
trans-1,2-Dichloroethene	nc, v	< 0.020 (ND)	<1.43 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	< 0.30 (ND)	< 1.0 (ND)	---
EDB (1,2-dibromoethane)	c, v	---	0.021	---	<0.038 (ND)	---	<0.019 (ND)	---	<0.013 (ND)	---	<0.019 (ND)	---	<0.019 (ND)	---	---	<0.019 (ND)
EDC (1,2-dichloroethane)	c, v	0.069	0.030 J	---	<0.041 (ND)	---	0.059	---	0.335	---	0.030 J	---	0.121	---	---	0.077
Ethylbenzene	c, v	---	1.06 J	---	2.38	---	1.570	---	2.228	---	3.601	---	2.898	---	---	1.748
Naphthalene	c, v	---	0.705	---	0.048	---	0.166	---	0.288	---	0.039 J	---	0.245	---	---	0.124
Tetrachloroethene (PCE)	c, v	0.220	0.087	4.7	0.214	<0.084 (ND)	0.14	<0.084 (ND)	5.386	<0.084 (ND)	0.818	17	1.927	3.6	5.6	0.956
1,1,2-Trichloroethane	c, v	<0.055 (ND)	<0.055 (ND)	---	<0.055 (ND)	---	<0.055 (ND)	---	<0.036 (ND)	---	0.026 J	---	<0.055 (ND)	---	---	<0.055 (ND)
Trichloroethene	NA, v	3.234	1.030	0.21	0.110	0.30	0.189	0.39	0.176	0.61	0.287	0.77	0.069	<0.072 (ND)	<0.20 (ND)	<0.027 (ND)
Vinyl chloride	c, v	<0.026 (ND)	<0.013 (ND)	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	---	---	<0.039 (ND)	<0.16 (ND)	---
Total Petroleum Hydrocarbons																
Generic Gasoline (GRO)	nc, v	---	---	---	135.43 J	---	<569.73 (ND)	---	1611.03 J	---	<569.73 (ND)	---	934.21	---	---	263.03

Notes:
ND = not detected at or above laboratory method reporting limits.
--- = not analyzed or not applicable
< = not detected above method reporting limit shown.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile

Bolded and shaded post SSD concentrations exceed ODEQ Commercial indoor air RBC and range of detected outdoor air concentrations.

(Y) indicates analyte not detected, but detection limit is above screening concentration.

J = indicates the internal standard associated with the analyte is out of control limits; the reported concentration is an estimate.

1. DEQ, Updated March 2024. Guidance for Assessing and Remediating Vapor Intrusion into Buildings.

BKG = Maximum detected post SSD startup concentration is within the range of outdoor air concentrations (background)

IAS = Constituent detections likley sourced from materials stored in space.

Table 1 - Summary of Analytical Data, Indoor/ Outdoor Air

Location ID		IA02														
Sample ID		IA02-191120	IA02-200908	IA02-220131	IA02-220408	IA02-220429	IA02-220715	IA02-220729	IA02-221007	IA02-221031	IA02-230106	IA02	IA02-240131	IA02	IA02-240502	IA02
Date Sampled		11/20/2019	9/8/2020	1/3-31/2022	4/4/2022	4/29/2022	7/11/2022	7/29/2022	10/3/2022	10/3-31/2022	1/4-9/2023	1/3-31/2023	1/11-31/2024	1/3-31/2024	4/12-5/2/2024	4/4-5/2/24
Height Sampled		4.25	4.5	4.5	4.5	~6	4.5	5.5	6	6	4.5	6	4.5	6	4.5	6
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		Office/work area in FORM (NW Quadquant)														
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Volatile Organic Constituents																
Benzene	c, v	---	0.63 J	---	0.247	---	0.227 J	---	0.350J	---	0.79	---	1.697	---	0.861	---
Carbon tetrachloride	c, v	2.104	0.296	---	0.182	---	0.206	---	0.164	---	0.312	---	0.804	---	0.818	---
Chloroform	c, v	0.262	0.104	---	0.058	---	0.049	---	0.145	---	0.015 J	---	0.244	---	0.188	---
1,1-Dichloroethene	nc, v	<0.036 (ND)	<0.036 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	< 0.30 (ND)	---	< 1.00 (ND)
cis-1,2-Dichloroethene	nc, v	< 0.040 (ND)	<1.33 (ND)	<0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	---	---	< 0.060 (ND)	---	< 0.20 (ND)
trans-1,2-Dichloroethene	nc, v	< 0.020 (ND)	<0.89 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	< 0.30 (ND)	---	< 1.00 (ND)
EDB (1,2-dibromoethane)	c, v	---	<0.019 (ND)	---	<0.038 (ND)	---	<0.019 (ND)	---	<0.029 (ND)	---	<0.019 (ND)	---	<0.019 (ND)	---	0.517	---
EDC (1,2-dichloroethane)	c, v	0.095	0.029 J	---	0.030 J	---	0.030 J	---	0.032 J	---	0.026 J	---	0.083	---	0.172	---
Ethylbenzene	c, v	---	0.77 J	---	0.98 J	---	0.315	---	0.529	---	5.867 E	---	3.379	---	4.637	---
Naphthalene	c, v	---	2.212	---	0.111	---	0.068	---	0.134	---	0.032 J	---	0.242	---	0.159	---
Tetrachloroethene (PCE)	c, v	0.220	0.054	2.5	0.256	<0.084 (ND)	0.142	<0.084 (ND)	0.332	<0.084 (ND)	0.634	17	1.562	2.9	0.400	1.5
1,1,2-Trichloroethane	c, v	<0.055 (ND)	<0.055 (ND)	---	<0.055 (ND)	---	<0.055 (ND)	---	<0.084 (ND)	---	0.103	---	<0.055 (ND)	---	<0.055 (ND)	---
Trichloroethene	NA, v	1.395	0.540	0.47	0.059	0.17	0.074	0.31	0.071	0.41	0.161	1.50	0.047	<0.072 (ND)	0.082	< 0.20 (ND)
Vinyl chloride	c, v	<0.026 (ND)	<0.013 (ND)	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	---	---	<0.039 (ND)	---	<0.16 (ND)
Total Petroleum Hydrocarbons																
Generic Gasoline (GRO)	nc, v	---	---	---	<341.84 (ND)	---	<962.84 (ND)	---	<3418.38 (ND)	---	601.93	---	1779.44	---	263.03	---

Notes:
ND = not detected at or above laboratory method reporting limits.
--- = not analyzed or not applicable
< = not detected above method reporting limit shown.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile

Bolded and shaded post SSD concentrations exceed ODEQ Commercial indoor air RBC and range of detected outdoor air concentrations.

(Y) indicates analyte not detected, but detection limit is above screening concentration.

J = indicates the internal standard associated with the analyte is out of control limits; the reported concentration is an estimate.

1. DEQ, Updated March 2024. Guidance for Assessing and Remediating Vapor Intrusion into Buildings.

BKG = Maximum detected post SSD startup concentration is within the range of outdoor air concentrations (background)

IAS = Constituent detections likley sourced from materials stored in space.

Table 1 - Summary of Analytical Data, Indoor/ Outdoor Air

Location ID	IA03																		
Sample ID	IA03-191120	IA03-200908	IA03-220131	IA03-220408	IA03-220429	IA03-220715	IA03-220729	IA03-221007	IA03-221031	IA03-230109	IA03-230113	IA03-230118	IA03-230123	IA03-230127	IA03	IA03-240131	IA03	IA03	IA03-240502
Date Sampled	11/20/2019	9/8/2020	1/3-31/2022	4/4/2022	4/29/2022	7/11/2022	7/29/2022	10/3-7/2022	10/3-31/2022	1/4-9/2023	1/9-13/2023	1/13-18/2023	1/18-23/2023	1/23-27/2023	1/3-31/2023	1/11-31/2024	1/03-31/2024	4/4-5/2/2024	4/12-5/2/24
Height Sampled	4.5	4.5	4.5	4.5	~6	4.5	5.5	6	6	4.5	4.5	4.5	4.5	4.5	6	4.5	6	6	4.5
Sampled By	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location	Front work/office area in Irwin Hodson, (SW Quadrant)																		
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Volatile Organic Constituents																			
Benzene	c, v	---	1.00	---	0.142	---	0.219 J	---	1.436	---	<0.320 (ND)	0.536	0.814	1.066	0.923	---	1.210	---	0.539
Carbon tetrachloride	c, v	2.078	0.206	---	0.116	---	0.175	---	0.407	---	0.080	0.248	0.246	0.288	0.293	---	0.592	---	0.519
Chloroform	c, v	0.468	0.119	---	<0.049 (ND)	---	0.046 J	---	0.163	---	0.050	0.087	0.110	0.195	0.135	---	0.582	---	0.155
1,1-Dichloroethene	nc, v	<0.036 (ND)	<0.036 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	---	---	---	---	< 0.30 (ND)	<1.0 (ND)
cis-1,2-Dichloroethene	nc, v	< 0.040 (ND)	<1.33 (ND)	<0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	---	---	---	---	---	---	<0.06 (ND)	<0.20 (ND)
trans-1,2-Dichloroethene	nc, v	< 0.020 (ND)	<0.89 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	---	---	---	---	< 0.30 (ND)	<1.0 (ND)
EDB (1,2-dibromoethane)	c, v	---	0.110	---	<0.038 (ND)	---	<0.019 (ND)	---	0.017 J	---	<0.019 (ND)	<0.019 (ND)	<0.019 (ND)	<0.058 (ND)	<0.019 (ND)	---	<0.019 (ND)	---	0.049
EDC (1,2-dichloroethane)	c, v	0.094	0.049	---	<0.041 (ND)	---	0.024 J	---	0.148	---	<0.041 (ND)	<0.041 (ND)	<0.041 (ND)	<0.121 (ND)	<0.041 (ND)	---	0.151	---	0.128
Ethylbenzene	c, v	---	7.79	---	7.14	---	1.801	---	2.735	---	3.545	0.594	16.201	14.203	2.264	---	12.951	---	11.612
Naphthalene	c, v	---	0.126	---	0.03 J	---	0.080	---	0.184	---	0.027 J	<0.047 (ND)	<0.047 (ND)	0.384	0.472	---	0.189	---	0.225
Tetrachloroethene (PCE)	c, v	0.370	0.366	20	0.091	<0.084 (ND)	0.098	<0.084 (ND)	0.552	<0.084 (ND)	0.113	0.138	4.646	0.298	0.189	9.9	0.437	0.79	0.179
1,1,2-Trichloroethane	c, v	<0.055 (ND)	<1.75 (ND)	---	<0.055 (ND)	---	<0.055 (ND)	---	<0.055 (ND)	---	<0.055 (ND)	0.116	<0.055 (ND)	<0.163 (ND)	0.023 J	---	<0.055 (ND)	---	< 0.055 (ND)
Trichloroethene	NA, v	0.289	0.377	0.92	<0.027 (ND)	1.00	<0.027 (ND)	0.54	0.060	0.69	0.028	0.077	0.133	0.118	0.124	0.86	0.023 J	<0.072 (ND)	<0.20 (ND)
Vinyl chloride	c, v	<0.026 (ND)	<0.013 (ND)	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	---	---	---	---	---	---	<0.039 (ND)	<0.16 (ND)
Total Petroleum Hydrocarbons																			
Generic Gasoline (GRO)	nc, v	---	---	---	<341.84 (ND)	---	<843.20 (ND)	---	1971.95 J	---	217.61 J	294.24 J	195.33 J	211.39 J	291.36 J	---	510.05	---	492.99

Notes:
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< = not detected above method reporting limit shown.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile

Bolded and shaded post SSD concentrations exceed ODEQ Commercial indoor air RBC and range of detected outdoor air concentrations.

(Y) indicates analyte not detected, but detection limit is above screening concentration.
J = indicates the internal standard associated with the analyte is out of control limits; the reported concentration is an estimate.
1. DEQ, Updated March 2024. Guidance for Assessing and Remediating Vapor Intrusion into Buildings.
BKG = Maximum detected post SSD startup concentration is within the range of outdoor air concentrations (background)
IAS = Constituent detections likley sourced from materials stored in space.

Table 1 - Summary of Analytical Data, Indoor/ Outdoor Air

Location ID		IA04														
Sample ID		IA04-191120	IA04-200908	IA04-220131	IA04-220408	IA04-220429	IA04-220715	IA04-220729	IA04-221007	IA04-221031	IA04-230109	IA04	IA04-240131	IA04	IA04	IA04-240502
Date Sampled		11/20/2019	9/8/2020	1/3-31/2022	4/4/2022	4/29/2022	7/11/2022	7/29/2022	10/3-7/2022	10/3-31/2022	1/4-9/2023	1/3-31/2023	1/11-31/2024	1/3-31/2024	4/4-5/2/2024	4/12-5/2/24
Height Sampled		4.5	4.5	4.5	4.5	~6	4.5	5.5	6	6	4.5	6	4.5	6	6	4.5
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		Back production room of Irwin Hodson (SE quadrant)														
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Volatile Organic Constituents																
Benzene	c, v	---	3.25	---	0.335	---	0.738	---	2.576	---	0.907	---	1.703	---	---	0.503
Carbon tetrachloride	c, v	0.491	0.557	---	0.107	---	0.749	---	0.241	---	0.397	---	0.813	---	---	0.506
Chloroform	c, v	0.069	<0.049 (ND)	---	0.042 J	---	0.588	---	0.699	---	0.186	---	0.245	---	---	0.178
1,1-Dichloroethene	nc, v	<0.036 (ND)	<0.036 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	<0.30 (ND)	<1.0 (ND)	---
cis-1,2-Dichloroethene	nc, v	< 0.040 (ND)	<1.33 (ND)	<0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	< 0.060 (ND)	---	---	---	<0.06 (ND)	<0.20 (ND)	---
trans-1,2-Dichloroethene	nc, v	< 0.020 (ND)	<0.89 (ND)	<0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	< 0.30 (ND)	---	---	---	<0.30 (ND)	<1.0 (ND)	---
EDB (1,2-dibromoethane)	c, v	---	<0.019 (ND)	---	<0.038 (ND)	---	<0.019 (ND)	---	<0.025 (ND)	---	0.017 J	---	<0.019 (ND)	---	---	0.122
EDC (1,2-dichloroethane)	c, v	0.102	0.107	---	<0.041 (ND)	---	0.542	---	0.239	---	0.057	---	0.111	---	---	0.104
Ethylbenzene	c, v	---	12.08	---	20.39	---	22.57	---	4.573	---	3.931	---	19.615	---	---	24.486
Naphthalene	c, v	---	3.150	---	0.105	---	0.240	---	0.096	---	0.052	---	0.458	---	---	0.162
Tetrachloroethene (PCE)	c, v	0.349	0.499	19	6.298	<0.084 (ND)	0.150	<0.084 (ND)	<0.713 (ND)	<0.084 (ND)	0.318	7.5	0.380	1.1	0.68	0.276
1,1,2-Trichloroethane	c, v	<0.055 (ND)	<0.055 (ND)	---	<0.055 (ND)	---	<0.055 (ND)	---	<0.071 (ND)	---	0.026 J	---	<0.055 (ND)	---	---	< 0.055 (ND)
Trichloroethene	NA, v	0.382	0.244	0.43	0.052	0.59	0.067	0.30	0.151	0.77	0.205	0.32	0.084	<0.072 (ND)	<0.20 (ND)	< 0.027 (ND)
Vinyl chloride	c, v	<0.026 (ND)	<0.013 (ND)	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	<0.039 (ND)	---	---	---	<0.039 (ND)	<0.16 (ND)	---
Total Petroleum Hydrocarbons																
Generic Gasoline (GRO)	nc, v	---	---	---	505.82	---	<843.20 (ND)	---	1651.41 J	---	465.30 J	---	551.14	---	---	467.42

Notes:
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--- = not analyzed or not applicable
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ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile

Bolded and shaded post SSD concentrations exceed ODEQ Commercial indoor air RBC and range of detected outdoor air concentrations.

(Y) indicates analyte not detected, but detection limit is above screening concentration.
J = indicates the internal standard associated with the analyte is out of control limits; the reported concentration is an estimate.
1. DEQ, Updated March 2024. Guidance for Assessing and Remediating Vapor Intrusion into Buildings.
BKG = Maximum detected post SSD startup concentration is within the range of outdoor air concentrations (background)
IAS = Constituent detections likley sourced from materials stored in space.

Table 1 - Summary of Analytical Data, Indoor/ Outdoor Air

Location ID		Outdoor Air									Maximum Indoor Air Concentration (Pre-SSD)	Maximum Indoor Air Concentration (Summa Canister, Post-SSD)	Maximum Indoor Air Concentration (Radiello, Post-SSD)	Percent reduction since SSD startup	Maximum Detected Outdoor Air Concentration (Reference)	Minimum Outdoor Air Concentration (Reference)	Maximum Indoor Air Concentration (Post SSD) within Range of Outdoor Concentrations	ODEQ Commercial Indoor Air RBC ¹	Exceeds Chronic Commercial Air RBC		
Sample ID		OA01-191120	OA01-200908	OA01-220110	OA01-220408	OA01-220715	OA01-221007	OA01-230109	OA01-240131	OA01-240502											
Date Sampled		11/20/2019	9/8/2020	1/5-10/2022	4/4/2022	7/11/2022	10/3/2022	1/4/2023	1/11-31/2024	4/12-5/2/24											
Height Sampled		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5											
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW											
Location		NE corner of building, with intake 3-4 feet above the highest section of the roof (upwind)																			
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³			%	µg/m3			µg/m³	TRUE OR Y FALSE OR N		
Volatile Organic Constituents																					
Benzene	c, v	---	<0.8 (ND)	0.772	0.100	0.285 J	0.584	0.844	2.130	0.302 J	3.25	1.794	---	44.8%	2.13	0.100 J	YES	1.6	BKG		
Carbon tetrachloride	c, v	2.034	<0.302 (ND)	0.407	0.099	0.174	0.223	0.294	0.894	0.460	2.104	0.865	---	58.9%	2.034	0.099	YES	2.0	N		
Chloroform	c, v	0.22	0.085	0.166	<0.049 (ND)	0.071	0.119	0.154	0.349	0.103	0.699	0.582	---	16.7%	0.349	<0.049 (ND)	---	0.53	IAS		
1,1-Dichloroethene	nc, v	<0.036 (ND)	<0.036 (ND)	---	---	---	---	---	---	---	<0.3 (ND)	---	<1.00 (ND)	---	<0.04 (ND)	<0.00 (ND)	---	880	N		
cis-1,2-Dichloroethene	nc, v	< 0.040 (ND)	<1.33 (ND)	---	---	---	---	---	---	---	<2.13 (ND)	---	<0.200 (ND)	---	<1.330 (ND)	<0.000 (ND)	---	180	N		
trans-1,2-Dichloroethene	nc, v	< 0.020 (ND)	<0.89 (ND)	---	---	---	---	---	---	---	<1.43 (ND)	---	<1.00 (ND)	---	<0.89 (ND)	<0.02 (ND)	---	180	N		
EDB (1,2-dibromoethane)	c, v	---	0.030	<0.019 (ND)	<0.038 (ND)	<0.019 (ND)	<0.019 (ND)	<0.019 (ND)	<0.019 (ND)	<0.019 (ND)	0.110	0.517	---	-370.0%	0.030	<0.019 (ND)	---	0.020	IAS		
EDC (1,2-dichloroethane)	c, v	0.075	0.032 J	0.672	<0.041 (ND)	0.023 J	0.032 J	0.032 J	0.189	0.094	0.542	0.172	---	68.3%	0.672	0.023 J	YES	0.47	N		
Ethylbenzene	c, v	---	<1.43 (ND)	0.478	<2.30 (ND)	0.199	1.503	0.797	0.117	0.037 J	22.57	24.49	---	-8.5%	1.503	0.117	---	4.9	IAS		
Naphthalene	c, v	---	0.354	1.502	0.047 J	0.035 J	0.183	0.063	0.229	0.165	3.15	0.458	---	85.5%	1.502	0.035 J	YES	0.36	BKG		
Tetrachloroethene (PCE)	c, v	0.132	0.041	---	0.096	0.7	0.214	1.838	0.053	0.173	20	1.927	5.6	90.4%	1.838	0.041	---	47	N		
1,1,2-Trichloroethane	c, v	<0.055 (ND)	<0.055 (ND)	<0.055 (ND)	<0.055 (ND)	<0.055 (ND)	<0.053 (ND)	<0.055 (ND)	<0.055 (ND)	<0.055 (ND)	<1.75 (ND)	<0.055 (ND)	---	---	<0.055 (ND)	<0.053 (ND)	YES	0.77	N		
Trichloroethene	NA, v	<0.032 (ND)	<0.027 (ND)	0.17 J	0.038	0.025 J	0.055	0.039	0.027	<0.027 (ND)	3.234	0.084	<0.200 (ND)	97.4%	0.17 J	<0.025 (ND)	YES	3.0	N		
Vinyl chloride	c, v	<0.026 (ND)	<0.013 (ND)	---	---	---	---	---	---	---	<0.039 (ND)	---	<0.160 (ND)	---	---	---	---	2.8	N		
Total Petroleum Hydrocarbons																					
Generic Gasoline (GRO)	nc, v	---	---	<213.65 (ND)	<341.84 (ND)	<569.73 (ND)	<3418.38 (ND)	211.10 J	211.03 J	580.37	3418.38 J	1779.44	---	47.9%	211.10 J	211.03 J	---	1800	N		

Notes:
ND = not detected at or above laboratory method reporting limits.
--- = not analyzed or not applicable
< = not detected above method reporting limit shown.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile

Bolded and shaded post SSD concentrations exceed ODEQ Commercial indoor air RBC and range of detected outdoor air concentrations.

(Y) indicates analyte not detected, but detection limit is above screening concentration.

J = indicates the internal standard associated with the analyte is out of control limits; the reported concentration is an estimate.

1. DEQ, Updated March 2024. Guidance for Assessing and Remediating Vapor Intrusion into Buildings.

BKG = Maximum detected post SSD startup concentration is within the range of outdoor air concentrations (background)

IAS = Constituent detections likley sourced from materials stored in space.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SG01	SG02	SG03	SG04	SG05	SG06	SG07	SG08	SG09	SG10	SG11	SUB01	SUB02	SUB03	SUB04
Date Sampled		5/23/2019	5/23/2019	5/23/2019	5/23/2019	5/23/2019	5/23/2019	5/23/2019	5/23/2019	5/23/2019	8/14/2019	8/14/2019	8/14/2019	8/14/2019	8/14/2019	8/14/2019
Depth Sampled (feet)		--	--	--	--	--	--	--	--	--	5	5	0.5	0.5	0.5	0.5
Sampled By		Envirologic	Envirologic	Envirologic	Envirologic	Envirologic	Envirologic	Envirologic	Envirologic	Envirologic	ENW	ENW	ENW	ENW	ENW	ENW
Location		Main floor NW corner	Main floor, N central	NE corner loading dock	Main floor central area	West end of alley	Central loading dock	Basement boiler room	Main floor S central area	Basement, SW corner	East of building, south of NE corner.	North of building, near NE corner.	Near west wall of northeast corner space.	Near NW corner of northeast corner space	Center of northeast corner space	Near southern wall of northeast corner space
Constituent of Interest		Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents																
Benzene	c, v		1.3	11	4.3	68	1.2	0.64	1.8	1.4	2.7	---	---	---	---	---
Carbon tetrachloride	c, v		<1 (ND)	<1 (ND)	<5.2 (ND)	<24 (ND)	<1 (ND)	<0.94 (ND)	<1 (ND)	<1.1 (ND)	5.4	<4.98 (ND)	<4.98 (ND)	---	---	---
Chloroform	c, v		1.3	1.2	6.1	140	0.16	0.088	4.5	0.46	0.95	---	---	---	---	---
EDB (1,2-dibromoethane)	c, v		<0.12 (ND)	<0.12 (ND)	<0.63 (ND)	<2.9 (ND)	<0.12 (ND)	<0.12 (ND)	<0.12 (ND)	<0.13 (ND)	<0.12 (ND)	<3.11 (ND)	<3.11 (ND)	---	---	---
EDC (1,2-dichloroethane)	c, v		<0.065 (ND)	<0.065 (ND)	<0.33 (ND)	<1.5 (ND)	0.071	<0.061 (ND)	0.1	<0.069 (ND)	0.079	24.64	163.43	79.34	<9.23 (ND)	27.22
Ethylbenzene	c, v		2.4	64	<3.6 (ND)	1200	2.4	1.1	13	16	6.0	<3.83 (ND)	<3.83 (ND)	---	---	---
Naphthalene	c, v		<0.42 (ND)	1.1	<2.1 (ND)	<10 (ND)	4.1	<0.39 (ND)	0.91	0.68	1.7	---	---	---	---	---
Tetrachloroethene (PCE)	c, v		14	11	210	<260 (ND)	<11 (ND)	25	19	44	27	28.53	89.61	472.57	310.88	735.28
1,1,2-Trichloroethane	c, v		<0.17 (ND)	1.5	7.9	55	<0.18 (ND)	<0.16 (ND)	1.1	<0.19 (ND)	<0.16 (ND)	---	---	---	---	---
Trichloroethene	NA, v		268.46	140	5100	53000 ve	4.1 fb	3.2 fb	220 ve	88	15	20.77	13616.96	1439279	278869	46295
Total Petroleum Hydrocarbons																
Generic Gasoline (GRO)	nc, v		1280 ve fb	1970 ve fb	4100 fb	20600 fb	850 fb	840 fb	1040 fb	1070 fb	880 fb	<1709.19 (ND)	<1709.19 (ND)	12603.7	2270.5	10145.3
Leak Detection																
2-Propanol			76	66	72	440	190 ve	1500 ve	320 ve	940 ve	130 ve	<18.43 (ND)	<18.43 (ND)	74.48	42.20	93.32

Notes:
ND = not detected at or above laboratory method reporting limits.
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< = not detected above method reporting limit shown.
NE = not established.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi.
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SUB05		SUB06	SUB07	SUB07'	SUB08	SUB09	SUB10	SUB11	SUB12
Date Sampled		10/14/2020	11/6/2020	10/14/2020	10/14/2020	11/6/2020	10/14/2020	10/14/2020	10/14/2020	11/6/2020	11/6/2020
Depth Sampled (feet)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		Eastern portion of Irwin Hodson north shop		Central portion of Irwin Hodson shop space, west of SUB05	Within Irwin Hodson shop space, west of SUB05	Western portion of Irwin Hodson shop space, west of SUB05 and SUB06	Northern portion of Irwin Hodson shop space, north of SUB05	North of boiler room in historical heat treatment room (south of SUB01)	South of boiler room (and SUB09)	Northern portion of Irwin Hodson shop space, north of SUB07	Southern portion of Irwin Hodson shop space, south of SUB07
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents											
Benzene	c, v	5.67	2.16 J	<3.19 (ND)	3.16 J	1.78 J	<3.19 (ND)	<3.19 (ND)	<3.19 (ND)	1.66 J	<3.19 (ND)
Carbon tetrachloride	c, v	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)	<7.45 (ND)
Chloroform	c, v	<5.81 (ND)	<5.81 (ND)	<5.81 (ND)	3.71 J	<5.81 (ND)	<5.81 (ND)	<5.81 (ND)	<5.81 (ND)	<5.81 (ND)	<5.81 (ND)
EDB (1,2-dibromoethane)	c, v	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)	<4.66 (ND)
EDC (1,2-dichloroethane)	c, v	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)	<4.25 (ND)
Ethylbenzene	c, v	<5.74 (ND)	<5.74 (ND)	<5.74 (ND)	8.06	<5.74 (ND)	<5.74 (ND)	<5.74 (ND)	<5.74 (ND)	<5.74 (ND)	<5.74 (ND)
Naphthalene	c, v	2.1	<2.1 (ND)	<2.1 (ND)	2 J	<2.1 (ND)	1.71 J	<2.1 (ND)	1.99 J	1.99 J	<2.1 (ND)
Tetrachloroethene (PCE)	c, v	11.6	20.48	22.9	14.32	9.74	7.67	7.48	20.76	14.59	8.14
1,1,2-Trichloroethane	c, v	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)	<7.01 (ND)
Trichloroethene	NA, v	544.38	2577.99	383.28	2774.75	599.54	425.3	581.35	27.24	68.46	<6.26 (ND)
Total Petroleum Hydrocarbons											
Generic Gasoline (GRO)	nc, v	---	---	---	---	---	---	---	---	---	---
Leak Detection											
2-Propanol		754.44	134.97	<9.21 (ND)	155.95	38.7	<9.21 (ND)	741.65	192.05	13.89	16.31

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c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi.
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SG10													
Date Sampled		1/31/2022	4/29/2022	8/1/2022	10/31/2022	1/31/2023	2/1/2024	5/2/2024	1/31/2022	4/29/2022	7/29/2022	11/3/2022	2/1/2023	2/1/2024	5/2/2024
Depth Sampled (feet)		5.25							9.75						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		New SG10 location, North-central part of warehouse (WH), ~3' north of GS61 and remedial excavation.													
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents															
Benzene	c, v	1.24 J	1.52 J	1.50 J	1.68 J	2.28	3.82	4.15	<1.92 (ND)	<2.13 (ND)	1.63 J	1.10 J	1.07 J	2.61	3.57
Carbon tetrachloride	c, v	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	23.16	50.56	13.96	37.61	21.92	3.6 J	3.43 J	<3.49 (ND)	28.13	31.28	32.41	25.61	3.68 J	4.02
EDB (1,2-dibromoethane)	c, v	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	30.99	41.42	20.57	32.26	17.11	2.48 J	2.47 J	<2.77 (ND)	35.06	20.76	<3.08 (ND)	20.44	<3.08 (ND)	4.69
Ethylbenzene	c, v	4.41	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	2.71 J	2.28 J	<3.83 (ND)	<3.45 (ND)	<3.83 (ND)	6.07	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)
Naphthalene	c, v	10.65	<1.40 (ND)	1.52	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	2.51	3.68	<1.40 (ND)	2.90	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	<1.4 (ND)
Tetrachloroethene (PCE)	c, v	333.79	400.63	346.84	176.89	398.84	31.99	42.09	112.20	360.37	397.27	292.07	296.7	25.46	38.03
1,1,2-Trichloroethane	c, v	97.98	261.38	<4.68 (ND)	256.66	150.98	53.59	35.72	44.74	252.47	179.40	213.61	151.03	46.84	91.44
Trichloroethene	NA, v	5937.65	38306	47149.05	4044.04	7430.21	467.21	585.93	4806.32	14951	14359.88	11033.38	6117.95	359.54	423.76
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	1511.74	763.15	<1709.19 (ND)	955.86	1087.42	723.71	99.36 J	< 512.76 (ND)	585.88	958.68 J	776.99	768.26	238.06	149.62 J
Leak Detection															
2-Propanol		289.39 E	66.50	<6.15 (ND)	<30.59 (ND)	190.06	793.16	7.96	<5.54 (ND)	82.04	<6.15 (ND)	8.11	355.37	67.32	56.30

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nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi.
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SG11													
Date Sampled		1/31/2022	4/29/2022	7/29/2022	10/31/2022	1/31/2023	1/31/2024	5/3/2024	1/31/2022	4/29/2022	7/29/2022	11/3/2022	2/1/2023	1/31/2024	5/2/2024
Depth Sampled (feet)		5.25							9.75						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		New SG11 location, E side of WH, ~12' E of equipment pad and 7' E of remedial excavation.													
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents															
Benzene	c, v	<1.92 (ND)	1.11 J	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	2.23	1.94 J	<1.92 (ND)	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	2.55	6.81
Carbon tetrachloride	c, v	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	0.86 J	2.98 J	3.22 J	2.20 J	1.67 J	<3.88 (ND)	<3.88 (ND)	3.64	7.54	7.17	8.85	5.3	2.19 J	<3.88 (ND)
EDB (1,2-dibromoethane)	c, v	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	<2.77 (ND)	15.56	10.49	11.77 J	7.36	<3.08 (ND)	<3.08 (ND)	<2.77 (ND)	16.82	9.86	<3.08 (ND)	7.44	1.51 J	<3.08 (ND)
Ethylbenzene	c, v	<3.45 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.45 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	1.53 J	3.73 J
Naphthalene	c, v	1.73	1.12 J	1.50	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	1.38	<1.40 (ND)	1.02 J	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	1.98
Tetrachloroethene (PCE)	c, v	658.03	766.06	2547.19	994.46	557.69	182.69	139.95	595.59	337.24	429.89	400.25	345.52	129.78	72.07
1,1,2-Trichloroethane	c, v	<4.21 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	5.41	10.37	<4.68 (ND)	11.31	6.29	4.00 J	5.15
Trichloroethene	NA, v	451.08	573.17	1858.15	676.42	496.56	64.89	41.69	888.63	529.87	553.79	607.35	497.77	67.80	29.30
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	< 512.76 (ND)	794.51	<1709.19 (ND)	285.42 J	196.02 J	552.88	< 203.28 (ND)	< 512.76 (ND)	212.39 J	3209.52	340.02 J	309.77 J	710.01	311.32
Leak Detection															
2-Propanol		<5.54 (ND)	6775.4 E	6.12 J	126.64	10.92	5.14 J	164.18	<5.54 (ND)	7.39	<6.15 (ND)	8.98	402.54	8912.02	71.04

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GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi.
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SG12													
Date Sampled		1/31/2022	4/29/2022	7/29/2022	11/22/2022	1/31/2023	1/31/2024	5/2/2024	1/31/2022	4/29/2022	7/29/2022	11/3/2022	2/1/2023	1/31/2024	5/2/2024
Depth Sampled (feet)		5.25							9.75						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		Hallway S of WH, ~48' E of W wall, and ~18' S of remedial excavation S wall .													
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents															
Benzene	c, v	<1.92 (ND)	<2.13 (ND)	<2.13 (ND)	1.14 J	<2.13 (ND)	3.03	3.77	<1.92 (ND)	<2.13 (ND)	2.12 J	<2.13 (ND)	<2.13 (ND)	3.71	4.82
Carbon tetrachloride	c, v	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	5.92	11.31	10.08	4.99	7.45	4.06	2.97 J	3.71	6.28	5.67	7.27	4.71	6.26	4.21
EDB (1,2-dibromoethane)	c, v	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	<2.77 (ND)	8.15	4.82	2.37 J	4.05	<3.08 (ND)	<3.08 (ND)	<2.77 (ND)	5.21	<3.08 (ND)	<3.08 (ND)	2.78 J	<3.08 (ND)	<3.08 (ND)
Ethylbenzene	c, v	<3.45 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	2.23 J	<3.83 (ND)	<3.45 (ND)	<3.83 (ND)	3.71 J	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)
Naphthalene	c, v	1.31	1.38 J	<1.40 (ND)	2.05	<1.40 (ND)	<1.40 (ND)	<2.40 (ND)	0.90 J	<1.4 (ND)	3.70	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	1.59
Tetrachloroethene (PCE)	c, v	89.96	113.91	113.04	33.69	81.97	45.49	30.11	64.88	60.90	88.06	87.18	64.97	39.48	28.39
1,1,2-Trichloroethane	c, v	11.24	19.45	14.70	<4.68 (ND)	9.00	8.00	<4.68 (ND)	7.99	10.82	6.95	11.37	6.37	7.53	<4.68 (ND)
Trichloroethene	NA, v	1371.99	2006.32	586.95	300.32	549.43	193.09	142.60	871.03	466.66	455.13	455.30	389.67	62.72	24.07
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	< 512.76 (ND)	< 569.73 (ND)	<1709.19 (ND)	<569.73 (ND)	219.43 J	550.52	130.42 J	< 512.76 (ND)	< 569.73 (ND)	<1709.19 (ND)	<569.73 (ND)	449.95 J	270.65	189.55 J
Leak Detection															
2-Propanol		27.62	<6.15 (ND)	102.74	148850.12	<36.48 (ND)	<31.36 (ND)	9.79	<5.54 (ND)	8.39	16.87	<6.15 (ND)	<533.56 (ND)	<33.93 (ND)	73.55

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nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi.
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SG13													
Date Sampled		1/31/2022	4/29/2022	7/29/2022	10/31/2022	2/1/2023	2/1/2024	5/3/2024	1/31/2022	4/29/2022	7/29/2022	11/3/2022	2/1/2023	2/1/2024	5/3/2024
Depth Sampled (feet)		5.25							9.75						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location															
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents															
Benzene	c, v	<1.92 (ND)	<2.13 (ND)	1.62 J	<2.13 (ND)	<2.13 (ND)	3.59	3.52	<1.92 (ND)	<2.13 (ND)	4.16	<2.13 (ND)	<2.13 (ND)	2.20	2.33
Carbon tetrachloride	c, v	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	8.17	17.45	13.96	16.02	13.93	13.40	11.43	3.17 J	12.03	8.49	10.90	6.69	5.17	8.20
EDB (1,2-dibromoethane)	c, v	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	<2.77 (ND)	5.72	3.10	3.93	3.2	3.26	<3.08 (ND)	<2.77 (ND)	5.33	2.56 J	<3.08 (ND)	2.5 J	<3.08 (ND)	<3.08 (ND)
Ethylbenzene	c, v	<3.45 (ND)	<3.83 (ND)	1.73 J	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	1.70 J	<3.83 (ND)	11.20	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)
Naphthalene	c, v	1.29	1.48	4.05	<1.40 (ND)	<1.4 (ND)	<1.4 (ND)	<1.4 (ND)	1.21 J	<1.40 (ND)	1.97	5.24	<1.4 (ND)	<1.4 (ND)	<1.4 (ND)
Tetrachloroethene (PCE)	c, v	80.10	98.46	125.38	156.47	103.8	61.53	55.24	42.62	89.14	69.87	82.05	55.8	30.90	25.40
1,1,2-Trichloroethane	c, v	50.94	92.66	56.92	89.87	42.78	56.37	47.68	13.18	36.31	19.61	31.12	16.18	15.52	13.95
Trichloroethene	NA, v	5113.11	5149.92	5299.47	4387.16	1090.43	471.28	587.13	2142.51	2039.67	6006.76	996.63	722.87	259.99	199.39
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	< 512.76 (ND)	293.28 J	<1709.19 (ND)	209.19 J	442.28 J	381.67	454.96	< 512.76 (ND)	256.98 J	<1709.19 (ND)	< 569.73 (ND)	241.41 J	913.33	< 203.28 (ND)
Leak Detection															
2-Propanol		2.28 J	73.15	91.30	17.76	34.64	33.93	25.93	642.17 E	74.46	<6.15 (ND)	19.80	556.94	294.18	23.37

Notes:
ND = not detected at or above laboratory method reporting limits.
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< = not detected above method reporting limit shown.
NE = not established.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi.
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SG14							SUB13						
Date Sampled		1/31/2022	4/29/2022	8/1/2022	11/3/2022	1/31/2023	1/31/2024	5/3/2024	2/1/2022	5/2/2022	7/29/2022	11/3/2022	1/31/2023	2/1/2024	5/3/2024
Depth Sampled (feet)		16.5-18.5							0.5						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		N of equip pad in deep remedial excavation and ~22' E of excavation W wall, by SUB22.							NW tenant space ~22' W of remedial excavation NW wall, next to SG13.						
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents															
Benzene	c, v	<1.92 (ND)	2.74	<2.13 (ND)	<2.13 (ND)	1.14 J	2.65	2.71	<2.13 (ND)	<2.13 (ND)	1.94 J	<2.13 (ND)	<2.13 (ND)	2.76	2.00 J
Carbon tetrachloride	c, v	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	2.84 J	5.46	4.26	4.86	<3.88 (ND)	8.53	5.28	6.27	13.75	18.25	15.16	7.93	3.65 J	0.95 J
EDB (1,2-dibromoethane)	c, v	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	<2.77 (ND)	6.05	2.94 J	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	3.01 J	5.41	5.13	<3.08 (ND)	2.41 J	2.11 J	<3.08 (ND)
Ethylbenzene	c, v	1.60 J	1.86 J	2.18 J	1.91 J	4.02	2.27 J	1.77 J	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	5.35	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)
Naphthalene	c, v	1.23 J	0.99 J	<1.40 (ND)	1.51	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	2.51	14.52	1.63	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)
Tetrachloroethene (PCE)	c, v	60.57	86.09	91.02	77.71	25.65	16.75	30.66	44.02	72.39	221.96	92.77	37.55	13.40	5.44
1,1,2-Trichloroethane	c, v	37.51	59.75	24.56	29.07	5.59	<4.68 (ND)	<4.68 (ND)	9.87	25.99	58.09	24.80	8.99	6.15	<4.68 (ND)
Trichloroethene	NA, v	1286.30	3596.27	2458.37	741.38	206.19	54.63	31.43	2416.10	5421.19	9380.15	3612.24	849.03	194.03	80.65
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	< 512.76 (ND)	210.53 J	<1709.19 (ND)	819.66	617.6	633.18	307.66	< 569.73 (ND)	< 569.73 (ND)	<1709.19 (ND)	486.93 J	247.94 J	1010.85	88.17 J
Leak Detection															
2-Propanol		114.72 E	79.71	46.29	136.40	15.18	11.60	<6.15 (ND)	7.86	503.46	<6.15 (ND)	5419.75	152.44	895.87	13.28

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GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
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Bolded and shaded post SSD concentrations exceed Occupational RBCvi
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SUB14							SUB15						
Date Sampled		2/1/2022	4/29/2022	8/1/2022	11/3/2022	1/31/2023	2/1/2024	5/2/2024	2/1/2022	5/2/2022	8/1/2022	10/31/2022	1/31/2023	1/31/2024	5/2/2024
Depth Sampled (feet)		0.5							0.5						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		N of equip pad ~22' E of excavation W wall, co-located with SG14							NE tenant space ~21' N of remedial excavation N wall and ~13' W of NW excavation corner.						
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Volatile Organic Constituents															
Benzene	c, v	1.68 J	8.73	12.58	10.10	6.02	6.04	8.30	<2.13 (ND)	1.08 J	2.87	2.07 J	1.38 J	2.56	2.06 J
Carbon tetrachloride	c, v	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	28.34	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	10.67	74.67	94.30	74.89	44.13	28.68	22.71	12.18	27.74	39.79	32.11	22.01	3.20 J	<3.88 (ND)
EDB (1,2-dibromoethane)	c, v	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	12.88	60.77	35.01	<3.08 (ND)	<19.3 (ND)	7.63	<3.08 (ND)	31.00	1.08 J	30.65	39.79	29.04	<3.08 (ND)	<3.08 (ND)
Ethylbenzene	c, v	2.41	6.62	6.20	3.59 J	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	1.63 J	<3.83 (ND)
Naphthalene	c, v	<1.40 (ND)	1.15 J	5.87	3.21	<1.4 (ND)	<1.40 (ND)	7.05	<1.40 (ND)	<1.40 (ND)	<1.40 (ND)	1.41	<1.4 (ND)	<1.40 (ND)	<1.40 (ND)
Tetrachloroethene (PCE)	c, v	125.38	446.77	630.89	431.50	230.32	302.91	141.74	101.19	132.51	242.45	243.93	105.27	38.49	2.38 J
1,1,2-Trichloroethane	c, v	43.60	299.22	276.84	258.09	96.61	153.93	51.84	13.61	27.41	41.32	33.88	11.68	<4.68 (ND)	<4.68 (ND)
Trichloroethene	NA, v	32592.44	515321.00	105859.30	27469.01	8019.34	1058.96	29818.0	13949.99	146004	120070.69	8738.65	5886.94	403.53	247.56
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	343.04 J	1227.03	<1709.19 (ND)	<569.73 (ND)	1088.42	952.69	459.75	694.34	373.17 J	<1709.19 (ND)	1303.15	710.9	251.06	213.86
Leak Detection															
2-Propanol		<6.15 (ND)	445.94	182.83 E	1579.83	12.2	2.42 J	<6.15 (ND)	2.82 J	55.22	<6.15 (ND)	3.66 J	4.31 J	3.74 J	5.03 J

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nc = noncarcinogenic
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nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
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ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SUB16							SUB17						
Date Sampled		2/1/2022	5/2/2022	8/1/2022	11/3/2022	1/31/2023	1/31/2024	5/2/2024	2/1/2022	5/2/2022	8/1/2022	11/3/2022	1/31/2023	1/31/2024	5/3/2024
Depth Sampled (feet)		0.5							0.5						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		E side of warehouse, ~12' E of equip pad and 7' E of excavation, next to SG11.							Immediately N of equip pad in central portion of northern excavation.						
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Volatile Organic Constituents															
Benzene	c, v	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	2.67	2.76	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	2.71	<2.13 (ND)	2.42	17.10
Carbon tetrachloride	c, v	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	1.72 J	0.88 J	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	1.22 J
EDB (1,2-dibromoethane)	c, v	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	4.15	6.80	5.81	<3.08 (ND)	4.38	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)
Ethylbenzene	c, v	<3.83 (ND)	1.61 J	3.11 J	<3.83 (ND)	9.94	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	2.50 J	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	15.56
Naphthalene	c, v	<1.40 (ND)	<1.40 (ND)	29.59	<1.40 (ND)	1 J	6.64	2.03	<1.40 (ND)	1.16 J	3.57	39.02	<1.4 (ND)	13.28	1.40
Tetrachloroethene (PCE)	c, v	1494.60	809.38	5624.62	644.20	516.09	36.35	29.83	<2.75 (ND)	<2.75 (ND)	10.22	2.20 J	17.73	5.25	2.19 J
1,1,2-Trichloroethane	c, v	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	2.39 J	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)
Trichloroethene	NA, v	684.74	541.31	3645.50	522.23	383.87	11.98	34.10	3.73 J	4.10 J	93.39	31.02	191.07	3.6 J	4.18
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	< 569.73 (ND)	228.55 J	<1709.19 (ND)	198.04 J	2314.26	291.53	159.63 J	< 569.73 (ND)	< 569.73 (ND)	<1709.19 (ND)	204.99 J	232.09 J	210.89	1502.24
Leak Detection															
2-Propanol		9.53	<6.15 (ND)	<6.15 (ND)	389.07	44.21	36.24	17.48	828.88	37.92	55.41	147.04	3.43 J	11.44	10.03

Notes:
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nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
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Bolded and shaded post SSD concentrations exceed Occupational RBCvi
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SUB18						SUB19						
Date Sampled		2/1/2022	4/29/2022	8/1/2022	11/3/2022	1/31/2024	5/2/2024	2/1/2022	4/29/2022	8/1/2022	11/3/2022	1/31/2023	1/31/2024	5/2/2024
Depth Sampled (feet)		0.5						0.5						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		SW part of warehouse, within remedial excavation ~6' N and ~20' E of SW corner.						Hallway S of WH, ~48' E of W wall, and ~18' S of remedial excavation S wall, by SG12.						
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Volatile Organic Constituents														
Benzene	c, v	<1.92 (ND)	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	3.04	4.36	<1.92 (ND)	1.32 J	<2.13 (ND)	1.65 J	<2.13 (ND)	2.63	2.10 J
Carbon tetrachloride	c, v	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	<3.49 (ND)	2.65 J	<3.88 (ND)	2.99 J	<3.88 (ND)	<3.88 (ND)	1.68 J	8.38	4.84	10.25	5.63	<3.88 (ND)	<3.88 (ND)
EDB (1,2-dibromoethane)	c, v	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	<2.77 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	1.46 J	5.91	1.37 J	<3.08 (ND)	3.05 J	<3.08 (ND)	<3.08 (ND)
Ethylbenzene	c, v	<3.45 (ND)	<3.83 (ND)	2.15 J	1.58 J	<3.83 (ND)	21.15	1.40 J	2.19 J	1.59 J	<3.83 (ND)	<3.83 (ND)	<3.83 (ND)	1.94 J
Naphthalene	c, v	<1.26 (ND)	<1.40 (ND)	1.49	4.98	5.73	4.78	<1.26 (ND)	<1.40 (ND)	1.07 J	2.89	<1.4 (ND)	4.67	2.32
Tetrachloroethene (PCE)	c, v	9.47	25.21	31.22	28.61	5.84	2.73 J	44.97	133.05	162.71	136.74	100.16	6.88	6.54
1,1,2-Trichloroethane	c, v	<4.21 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	2.08 J	12.15	9.64	8.51	5.56	<4.68 (ND)	<4.68 (ND)
Trichloroethene	NA, v	489.99	3434.58	4180.54	2258.49	2.7 J	19.60	1792.34	4570.67	6738.91	999.36	895.12	26.58	35.82
Total Petroleum Hydrocarbons														
Generic Gasoline (GRO)	nc, v	< 512.76 (ND)	< 569.73 (ND)	<1709.19 (ND)	407.52 J	267.52	490.84	< 512.76 (ND)	214.36 J	<1709.19 (ND)	766.20	465.57 J	272.94	231.02
Leak Detection														
2-Propanol		189.04 E	21.37	16.51	8593.21	7.2	129.94	4.06 J	54.11	<6.15 (ND)	280.07	14.03	46.42	27.33

Notes:
ND = not detected at or above laboratory method reporting limits.
— = not analyzed or not applicable.
< = not detected above method reporting limit shown.
NE = not established.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

Location ID		SUB20							SUB21						
Date Sampled		2/1/2022	5/2/2022	7/29/2022	11/3/2022	1/31/2023	1/31/2024	5/2/2024	2/1/2022	5/2/2022	7/29/2022	11/22/2022	1/31/2023	1/31/2024	5/2/2024
Depth Sampled (feet)		0.5							0.5						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW
Location		By hydraulic lift, ~13' S and ~11' W of SW corner of WH.							E wall of room W of conference room and 20' W of remedial excavation.						
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Volatile Organic Constituents															
Benzene	c, v	<1.92 (ND)	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	<2.13 (ND)	2.41	3.20	<1.92 (ND)	<2.13 (ND)	109.42	1.76 J	1.15 J	6.04	3.27
Carbon tetrachloride	c, v	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.48 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)
Chloroform	c, v	<3.49 (ND)	<3.88 (ND)	<3.88 (ND)	1.29 J	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	2.16 J	15.49	17.82	12.32	11.21	9.22	5.68
EDB (1,2-dibromoethane)	c, v	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<2.80 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)
EDC (1,2-dichloroethane)	c, v	<2.77 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	0.84 J	<3.08 (ND)	<3.08 (ND)	2.05	13.64	10.04	<3.08 (ND)	6.06	6.02	1.97 J
Ethylbenzene	c, v	<3.45 (ND)	<3.83 (ND)	1.57 J	24.01	<3.83 (ND)	<3.83 (ND)	1.76 J	2.41 J	9.17	67.81	9.22	8.32	14.18	3.83 J
Naphthalene	c, v	<1.26 (ND)	<1.40 (ND)	18.54	1.23 J	<1.4 (ND)	2.68	14.26	<1.26 (ND)	<1.40 (ND)	63.25	<1.40 (ND)	<1.40 (ND)	2.27	19.02
Tetrachloroethene (PCE)	c, v	2.47 J	8.01	26.55	44.75	7.18	4.05	5.18	15.09	54.94	147.59	32.10	36.09	46.97	63.13
1,1,2-Trichloroethane	c, v	<4.21 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	<4.21 (ND)	<4.68 (ND)	<4.68 (ND)	3.36 J	<4.68 (ND)	3.75 J	<4.68 (ND)
Trichloroethene	NA, v	112.36	391.32	709.29	246.68	302.58	140.07	161.48	1214.41	4756.81	10111.56	3643.49	825.13	421.15	579.47
Total Petroleum Hydrocarbons															
Generic Gasoline (GRO)	nc, v	< 512.76 (ND)	< 569.73 (ND)	<1709.19 (ND)	501.12 J	<569.73 (ND)	506.17	151.93 J	< 512.76 (ND)	< 569.73 (ND)	4928.05	667.95	432.47 J	852.81	3305.16
Leak Detection															
2-Propanol		9.89	4.06 J	<6.15 (ND)	16.91	47.23	32.17	7.40	52.79 E	4.28 J	<6.15 (ND)	253105.3	54.93	5.65 J	6.28

Notes:
ND = not detected at or above laboratory method reporting limits.
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NE = not established.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi
E = this compound exceeds the calibration range for this sample volume.

Table 2 - Summary of Analytical Data, Sub-Slab Vapor and Soil Gas

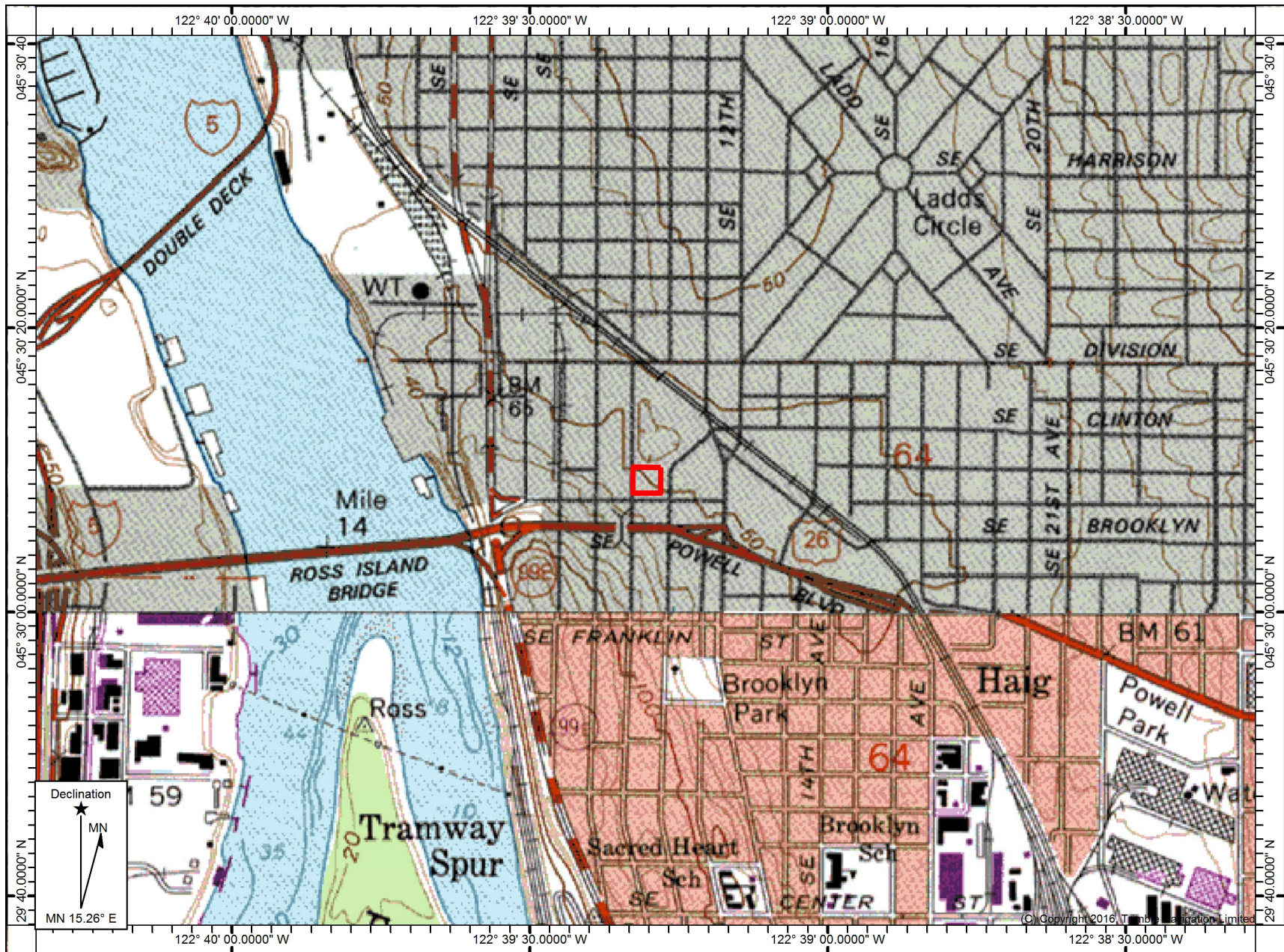
Location ID		SUB22							CT16	CT17		Maximum Soil-Gas Concentration (Pre-SSD)	Maximum Soil-Gas Concentration (Post-SSD)	Percent Reduction with SSD	ODEQ's Occupational Vapor Intrusion Risk-Based Concentration (RBCsv) ¹	Maximum POST SSD Concentration Exceeds Occupational RBCsv TRUE OR Y FALSE OR N
Date Sampled		2/1/2022	5/2/2022	7/29/2022	11/3/2022	1/31/2023	1/31/2024	5/2/2024	1/31/2024	2/1/2024	5/2/2024					
Depth Sampled (feet)		0.5							0.5	0.5						
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW							
Location		N of equip pad, ~22' E of excavation W wall, co-located with SG14.							Near the northeast corner of the northwest quadrant in the woodworking shop	Near the northeast corner of the northeast quadrant next to the loading dock						
Constituent of Interest	Note	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³		%	µg/m3	
Volatile Organic Constituents																
Benzene	c, v	<2.13 (ND)	<2.13 (ND)	1.19 J	<2.13 (ND)	<2.13 (ND)	8.95	4.16	3.70	2.13 J	4.16	109.42 J	17.1 J	84.4%	52	N
Carbon tetrachloride	c, v	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<4.98 (ND)	<24 (ND)	<28.34 (ND)	---	68	N
Chloroform	c, v	<3.88 (ND)	<3.88 (ND)	2.95 J	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	<3.88 (ND)	2.09 J	16.15	6.07	140	28.68	79.5%	18	Y
EDB (1,2-dibromoethane)	c, v	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<3.11 (ND)	<4.66 (ND)	<3.11 (ND)	---	0.68	(Y)
EDC (1,2-dichloroethane)	c, v	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	<3.08 (ND)	1.79 J	13.15	3.83	163.43	13.15	92.0%	16	N
Ethylbenzene	c, v	<3.83 (ND)	<3.83 (ND)	2.22 J	<3.83 (ND)	<3.83 (ND)	5.12	1.85 J	2.11 J	<3.83 (ND)	<3.83 (ND)	1200	21.15	98.2%	160	N
Naphthalene	c, v	<1.40 (ND)	<1.40 (ND)	11.54	3.16	<1.4 (ND)	<1.4 (ND)	3.66	<1.40 (ND)	<1.40 (ND)	6.09	63.3	19.02	69.9%	12	Y
Tetrachloroethene (PCE)	c, v	1.26 J	18.05	57.21	2.22 J	3.42	5.30	6.09	12.88	72.49	41.64	5624.62	302.91	94.6%	1600	N
1,1,2-Trichloroethane	c, v	<4.68 (ND)	12.48	8.12	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	4.42 J	<4.68 (ND)	<4.68 (ND)	<4.68 (ND)	299.22	<153.93 (ND)	48.6%	26	Y
Trichloroethene	NA, v	25.95	401.79	1489.47	38.72	37.76	47.91	235.44	262.03	702.76	662.73	1439279	29818	97.9%	100	Y
Total Petroleum Hydrocarbons																
Generic Gasoline (GRO)	nc, v	< 569.73 (ND)	< 569.73 (ND)	<1709.19 (ND)	569.73	223.89 J	1473.53	105.57 J	1351.89	2071.45	3990.47	20600 fb	3990.47	80.6%	10000	N
Leak Detection												Maximum Soil-Gas Concentration			Leak Screening Level	Leak Suggested?
2-Propanol		<6.15 (ND)	3.94 J	<6.15 (ND)	447.96	8.41	55.07	14.17	39.42	104.77	112.24	253105.3	8912.02	---	5%	N

Notes:
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< = not detected above method reporting limit shown.
NE = not established.
ug/m³ = micrograms per cubic meter of air .
c = carcinogenic
nc = noncarcinogenic
v = volatile
nv = nonvolatile
GRO = gasoline-range organics.
¹ Lowest Risk-Based Concentration for soil gas/sub-slab vapor (screening level).
(Y) indicates analyte not detected, but detection limit is above screening concentration.
>Pv = indicates this constituent cannot present an unacceptable health risk by the vapor intrusion pathway
ve = reported value is an estimate, analyte response exceeded valid instrument calibration range
Bolded and shaded post SSD concentrations exceed Occupational RBCvi
E = this compound exceeds the calibration range for this sample volume.

Table 1 - Summary of Analytical Data, SSD Vent

Location ID		SSD01 (North Vent)								SSD02 (South Vent)								Maximum Detected Concentration (Since GAC Removed)	Site-specific emission limit at rooftop stack	
Date Sampled		12/13/2023	12/27/2023	12/13/2023	12/2/2023	12/13/2023	12/27/2023	2/1/2024	5/3/2024	12/13/2023	12/27/2023	12/13/2023	12/27/2023	12/13/2023	12/27/2023	12/27/2023	2/1/2024			5/3/2024
Sampled By		ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW	ENW			ENW
Location		SSD01 (North Leg SSD) Prior to GAC Filters		SSD01 (North Leg SSD) Between GAC Filters		SSD01 (South Leg SSD), post GAC filters (if present)				SSD02 (North Leg) Prior to GAC Filters		SSD02 (North Leg) Between GAC Filters		SSD02 (North Leg), post GAC filters (if present)						
Constituent of Interest	Note	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m3	
Volatile Organic Constituents																				
Benzene	c, v	---	---	---	---	---	---	---	3.44	---	---	---	---	---	---	---	---	5.76	5.76 J	---
Carbon tetrachloride	c, v	---	---	---	---	---	---	---	<4.98 (ND)	---	---	---	---	---	---	---	---	<4.98 (ND)	<4.98 (ND)	---
Chloroform	c, v	---	---	---	---	---	---	---	1.25 J	---	---	---	---	---	---	---	---	1.01 J	1.25 J	---
EDB (1,2-dibromoethane)	c, v	---	---	---	---	---	---	---	<3.11 (ND)	---	---	---	---	---	---	---	---	<3.11 (ND)	<3.11 (ND)	---
EDC (1,2-dichloroethane)	c, v	---	---	---	---	---	---	---	<3.08 (ND)	---	---	---	---	---	---	---	---	<3.08 (ND)	<3.08 (ND)	---
Ethylbenzene	c, v	---	---	---	---	---	---	---	<3.83 (ND)	---	---	---	---	---	---	---	---	1.54 J	1.54	---
Naphthalene	c, v	---	---	---	---	---	---	---	<1.4 (ND)	---	---	---	---	---	---	---	---	<1.4 (ND)	<1.4 (ND)	---
Tetrachloroethene (PCE)	c, v	---	---	---	---	---	---	---	10.98	---	---	---	---	---	---	---	---	4.27	10.98	---
1,1,2-Trichloroethane	c, v	---	---	---	---	---	---	---	<4.68 (ND)	---	---	---	---	---	---	---	---	<4.68 (ND)	<4.68 (ND)	---
Trichloroethene	NA, v	142.50	222.39	<4.18 (ND)	3.59 J	<4.18 (ND)	<4.18 (ND)	143.34	115.87	341.91	242.83	<4.18 (ND)	3.94 J	<4.18 (ND)	<4.18 (ND)	146.76	146.76	129.41	146.76	1750
Total Petroleum Hydrocarbons																				
Generic Gasoline (GRO)	nc, v	---	---	---	---	---	---	---	155.11 J	---	---	---	---	---	---	---	---	68.39 J	155.11 J	---

Notes:
ND = not detected at or above laboratory method reporting limits.
< = not detected above method reporting limit shown.
µg/m³ = micrograms per cubic meter of air .
v = volatile



Name: PORTLAND
Date: Jan 1, 1990

0 1000 2000
Feet

Location: 45° 30' 09.2914" N, 122° 39' 18.3519" W
Contour Interval: 10 ft



Date Drawn: 8/12/2019
CAD File Name: 186-19002-fig1sv_map(v01)
Drawn By: JOB
Approved By: LDG

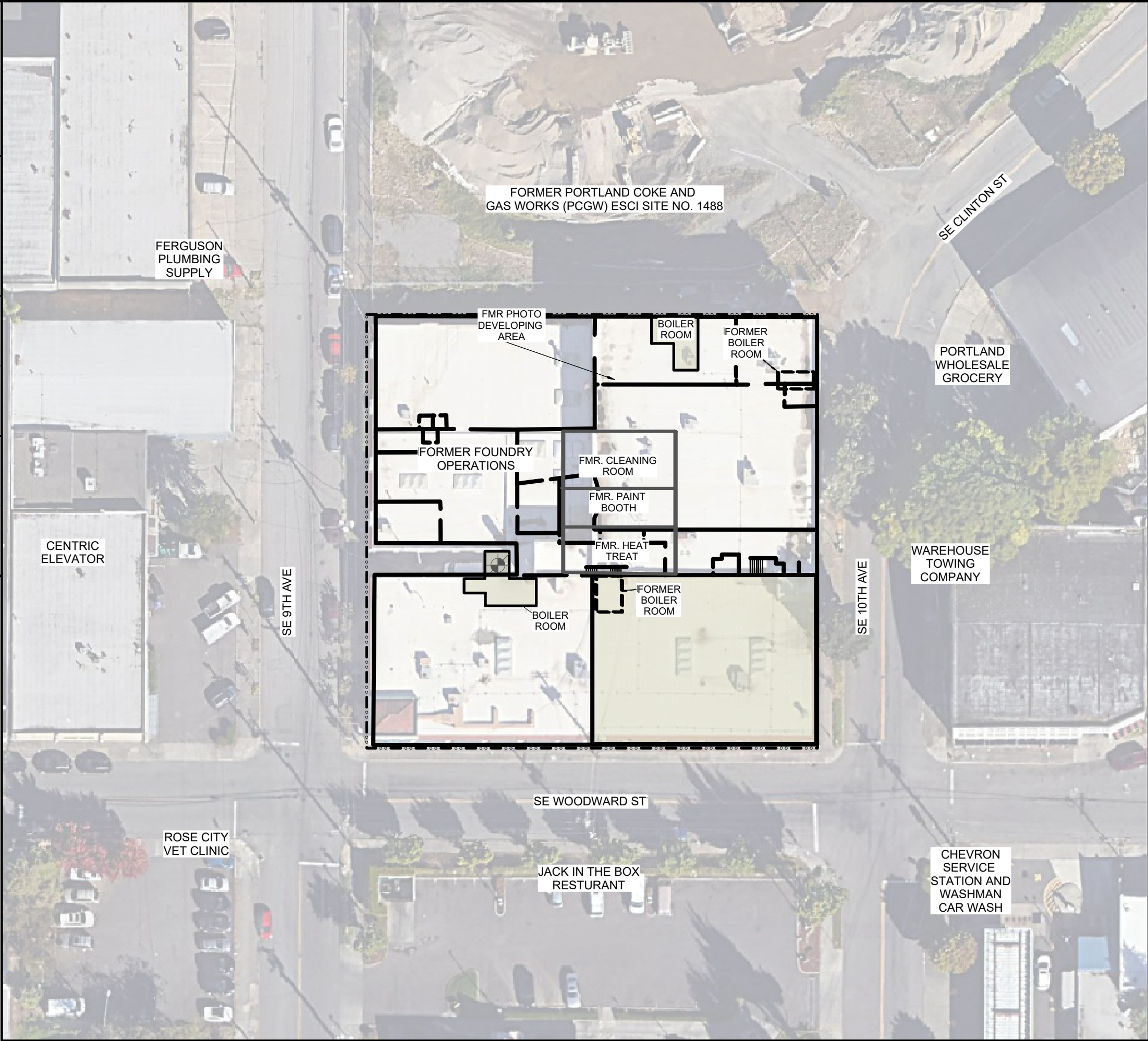
Irwin Hodson Property
2808 and 2838 SE 9th Avenue
Portland, Oregon

Site Vicinity Map

Project No.
186-19002

Figure No.

1



LEGEND:

SUBJECT PROPERTY BOUNDARIES

SUBJECT BUILDINGS

BASEMENT AREA

DECOMMISSIONED WATER WELL

HOT = HEATING OIL TANK

- NOTES:
1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2018 AND ENW FIELD NOTES.

2. ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.

3. SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.

APPROXIMATE SCALE

0

45

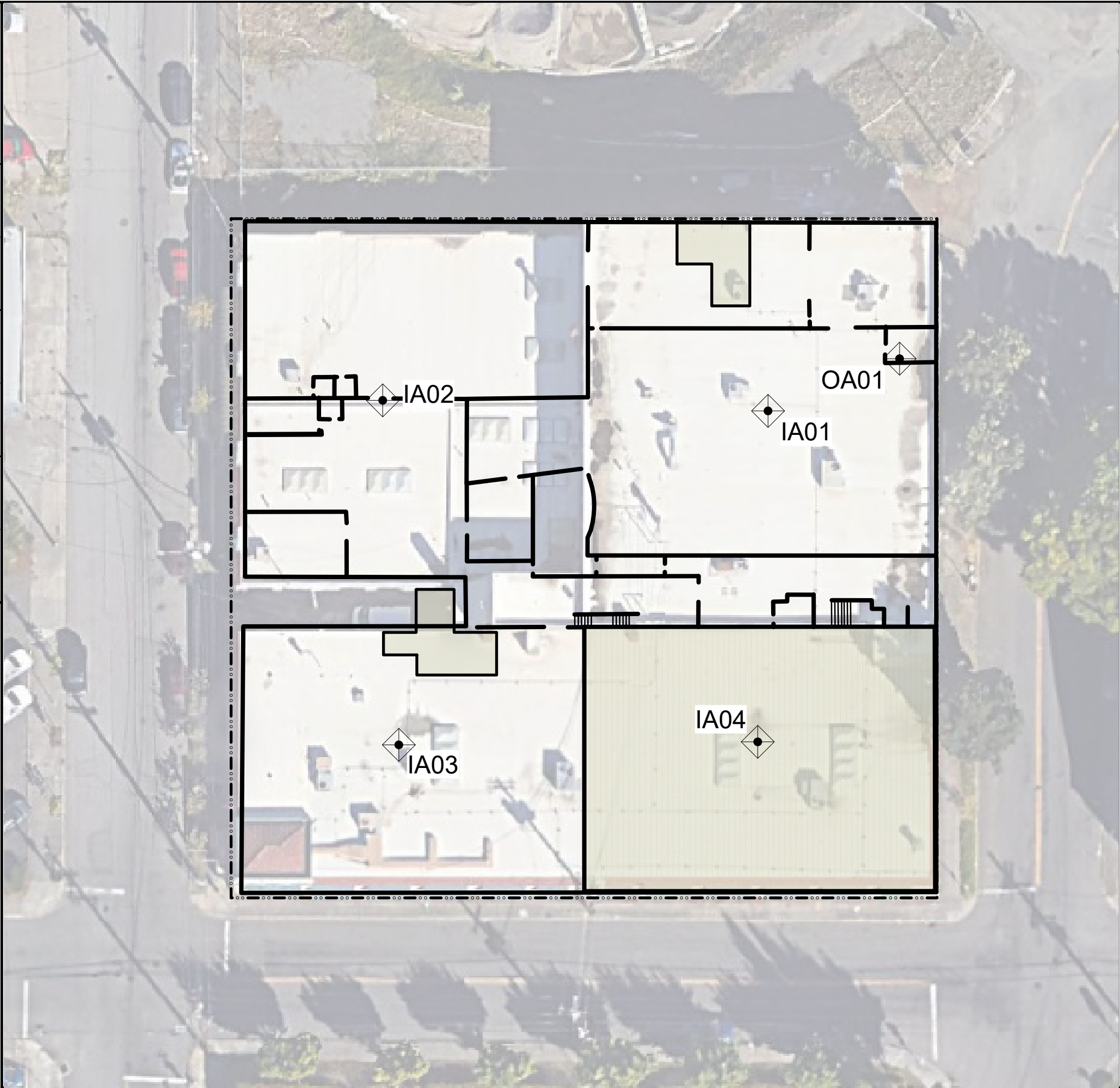
90 FEET

PO BOX 14488, PORTLAND, OREGON 97293
P: (503)452-5561, E: ENW@EVREN-NW.COM

FIGURE 2

SITE PLAN

IRWIN HODSON PROPERTY
2808 AND 2838 SE 9TH AVENUE
PORTLAND, OREGON



LEGEND:

SUBJECT PROPERTY BOUNDARIES

SUBJECT BUILDING / FLOOR PLAN

BASEMENT AREA

IA01

INDOOR AIR QUALITY SAMPLE LOCATION

OA01

OUTDOOR AIR QUALITY SAMPLE LOCATION (ROOF)

- NOTES:
1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2018 AND ENW FIELD NOTES.

2. ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.

3. SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION.

APPROXIMATE SCALE

0

30

60

 FEET

environmental natural resource consultants

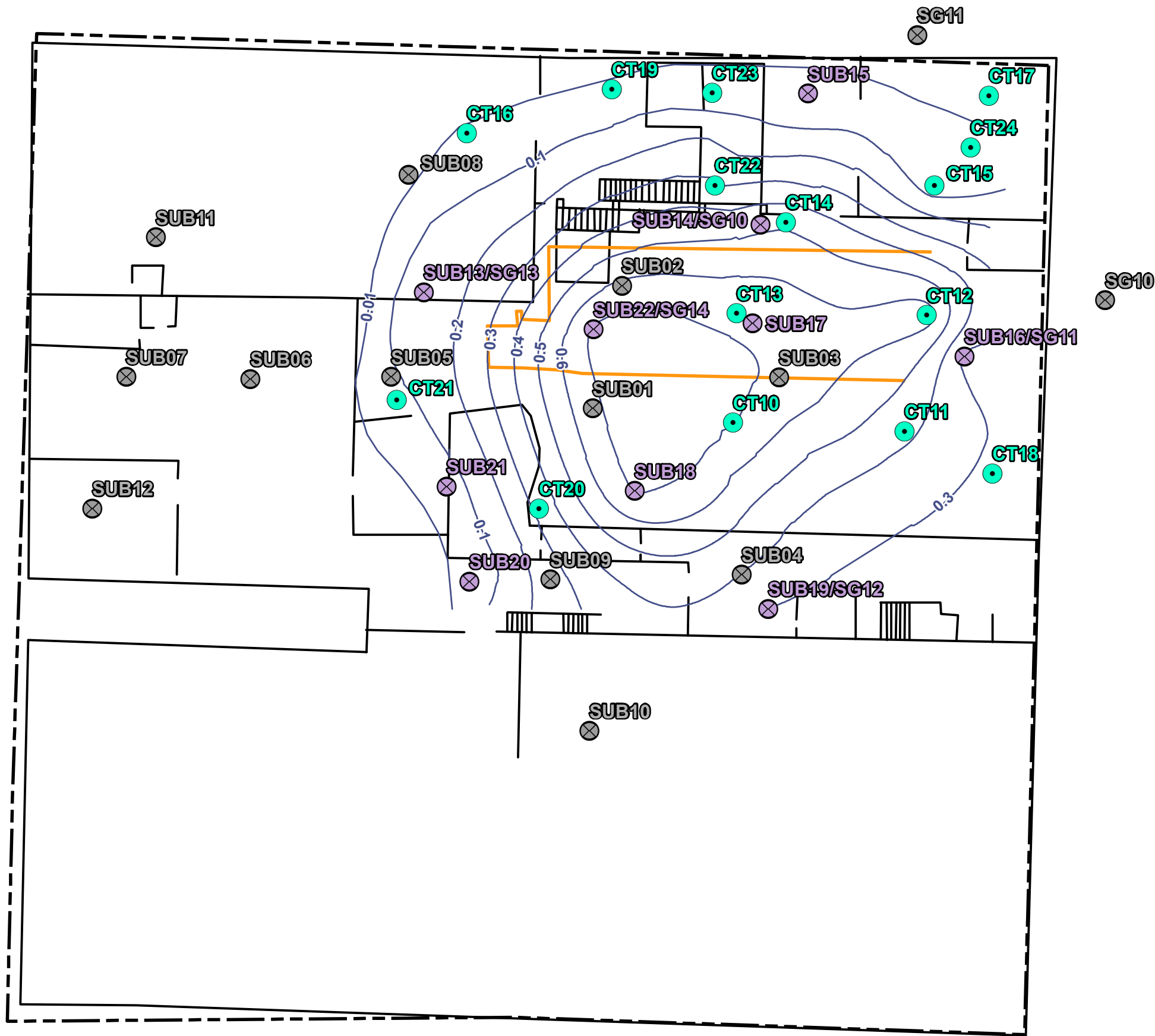
PO BOX 14488, PORTLAND, OREGON 97293
P: (503)452-5561, E: ENW@EVREN-NW.COM

FIGURE 3

SAMPLE LOCATION DIAGRAM
INDOOR / OUTDOOR AIR

IRWIN HODSON PROPERTY
2808 AND 2838 SE 9TH AVENUE
PORTLAND, OREGON

DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
H. ROMER	6/6/2024	E. BRUGGEMAN	6/6/2024	L. GREEN	6/6/2024	
186-19002(V01)						



- LEGEND:**
- SUBJECT PROPERTY BOUNDARY
 - SUBJECT BUILDING
 - SUB-SLAB DIFFERENTIAL PRESSURE ISOPLETH (INCHES OF WATER)
 - SSV/SSD VAPOR COLLECTION PIPING
 - COMMUNICATION TEST LOCATION
 - SUB-SLAB VAPOR SAMPLE LOCATION
 - FORMER SOIL GAS VAPOR SAMPLE LOCATION

- NOTES:**
- BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2023 AND ENW FIELD NOTES.
 - ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.
 - SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION

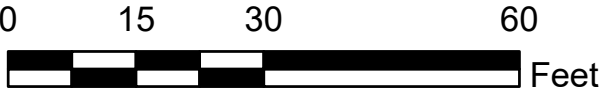
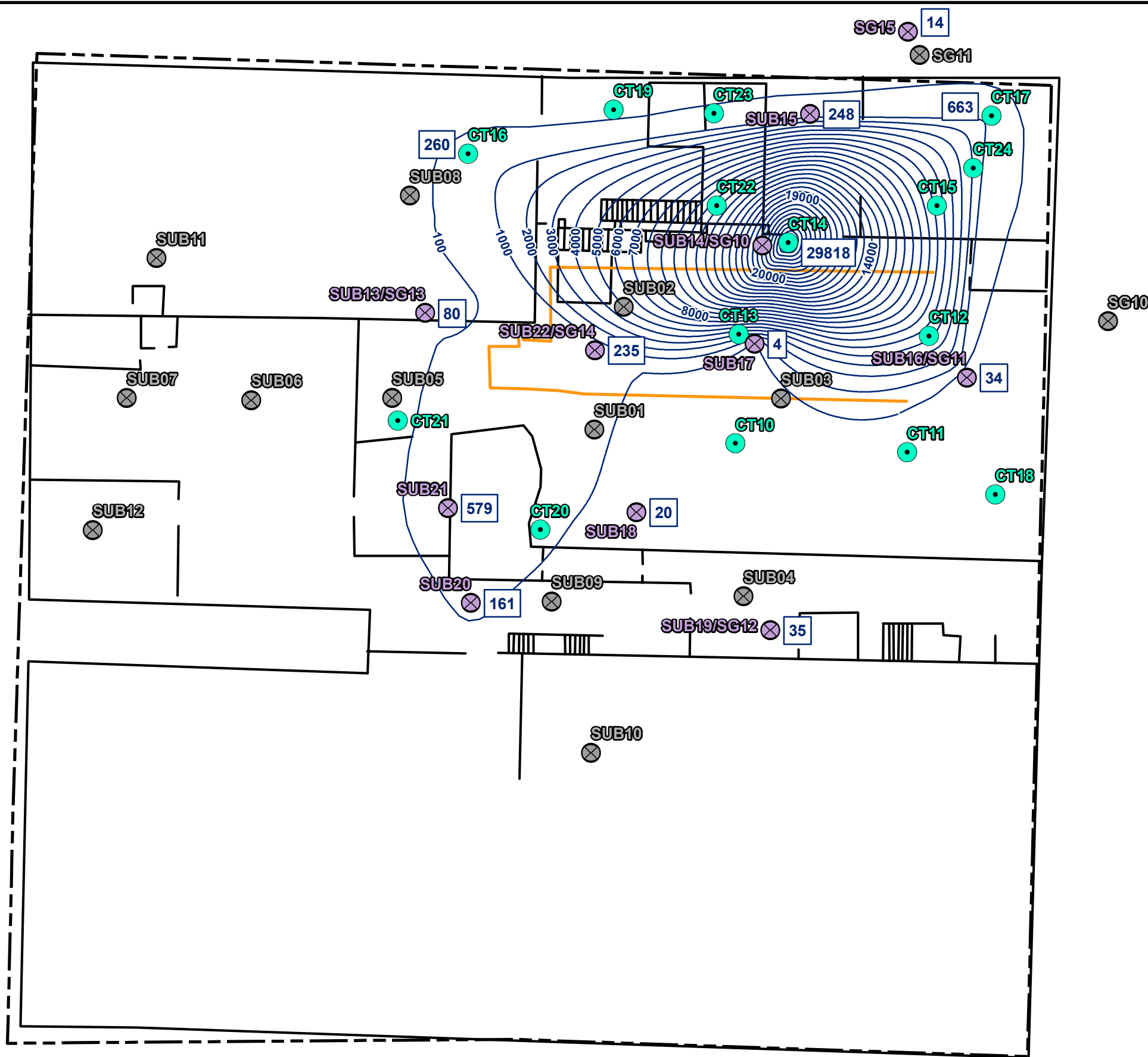


FIGURE 4

SUB-SLAB DIFFERENTIAL PRESSURE ISOPLETH DIAGRAM

IRWIN HODSON PROPERTY
2808 AND 2838 SE 9TH AVENUE
PORTLAND, OREGON

DRAWN BY	H. ROMER	6/26/2024	CHECKED BY	E. BRUGGEMAN	6/26/2024	APPROVED BY	L. GREEN	6/26/2024	DRAWING NUMBER	186-19002(V01)



- LEGEND:**
- SUBJECT PROPERTY BOUNDARY
 - SUBJECT BUILDING
 - TCE SUB-SLAB CONCENTRATION ISOPLETH (ug/M3)
 - SSV/SSD VAPOR COLLECTION PIPING
 - COMMUNICATION TEST LOCATION
 - SUB-SLAB VAPOR SAMPLE LOCATION
 - FORMER SOIL GAS VAPOR SAMPLE LOCATION

- NOTES:**
- BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2023 AND ENW FIELD NOTES.
 - ALL BUILDING, STREET, AND FEATURE LOCATIONS ARE APPROXIMATE.
 - SYMBOLS REPRESENT LOCATION AND DO NOT ALWAYS REPRESENT EXACT SHAPE, SIZE, OR ORIENTATION

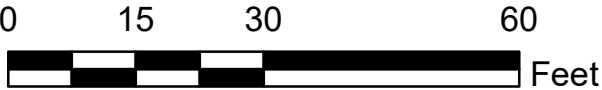


FIGURE 5

SUB-SLAB TCE ISOCONCENTRATION DIAGRAM

IRWIN HODSON PROPERTY
2808 AND 2838 SE 9TH AVENUE
PORTALND, OREGON

Appendix A

Site Photographs



An inventory of all chemical products was conducted at the start of the indoor air monitoring event.



Radiello passive sampler (red) and TO-15 Summa canisters (yellow) with extended inlet deployed concurrently to monitor indoor air



TEC DG-1000 pressure gauge deployed to monitor differential indoor versus outdoor pressures at the west end of the NE warehouse.



TEC DG-1000 pressure gauge deployed to monitor differential sub-slab pressure at SUB18 (inside removal action area) vs. indoor air.



Irwin Hodson Property
2808 and 2838 SE 9th Avenue
Portland, Oregon

Site Photographs

Project No.
186-19002-07
Appendix
A



TEC DG-1000 pressure gauge deployed to monitor differential sub-slab pressure at CT14 (outside removal action area) vs. indoor air.



Differential pressure in units of Pascals (pa) were recorded at 5 second intervals.



PID was calibrated prior to being used to monitoring sub-slab vapor / soil gas.



Sampling sub-slab vapor location SUB13 (NE part of NW quad). Note blue rags saturated with isopropyl alcohol for leak detection. (Typical)



Checking flow controller ID and Summa canister ID prior to sampling.

 environmental natural resource consultants	Irwin Hodson Property 2808 and 2838 SE 9 th Avenue Portland, Oregon	Site Photographs	Project No. 186-19002-07
			Appendix A

Appendix B

Differential Pressure (ΔP) Plots

CHART B-1A

Indoor vs. Outdoor
Differential Pressure
Compared to Barometric Pressure

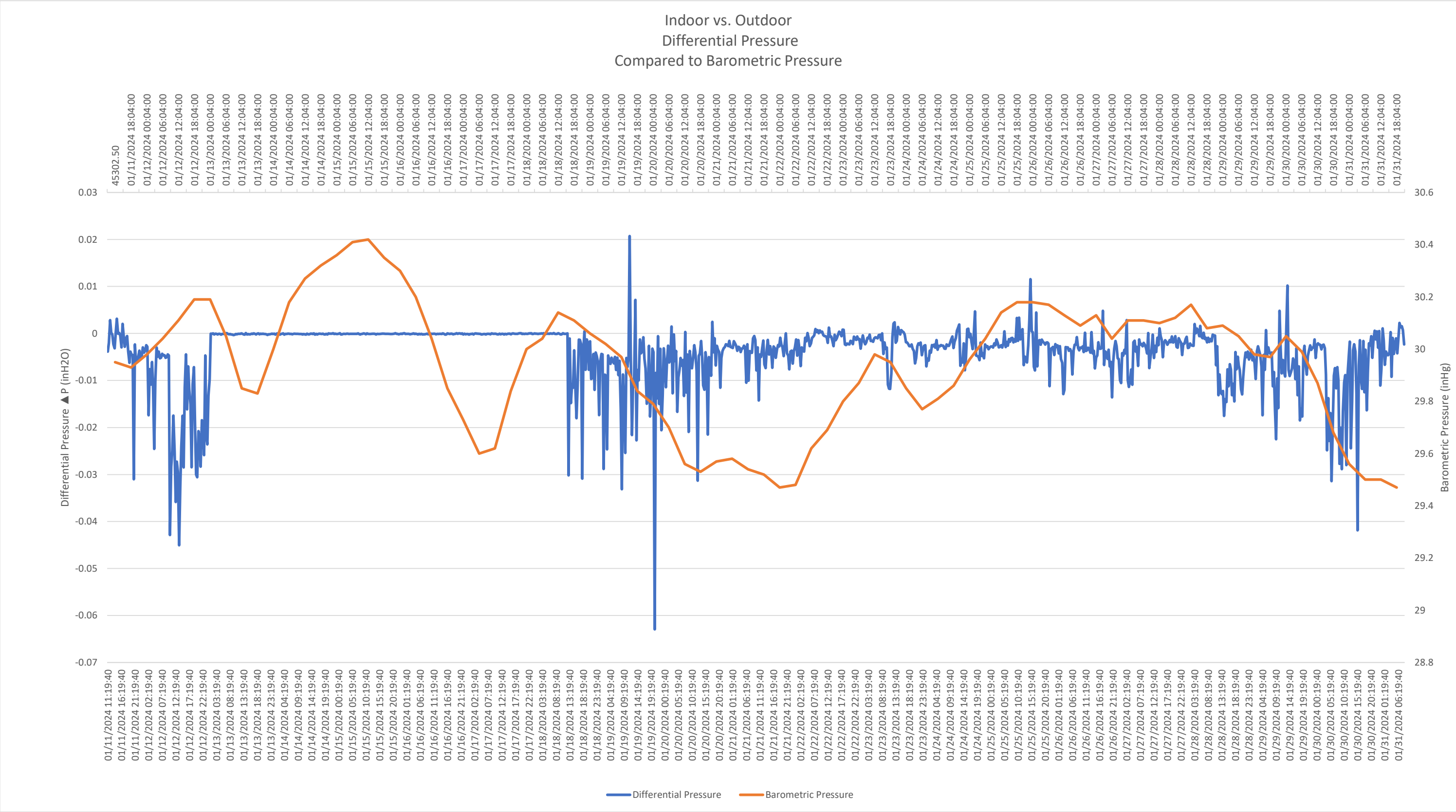


CHART B-1B

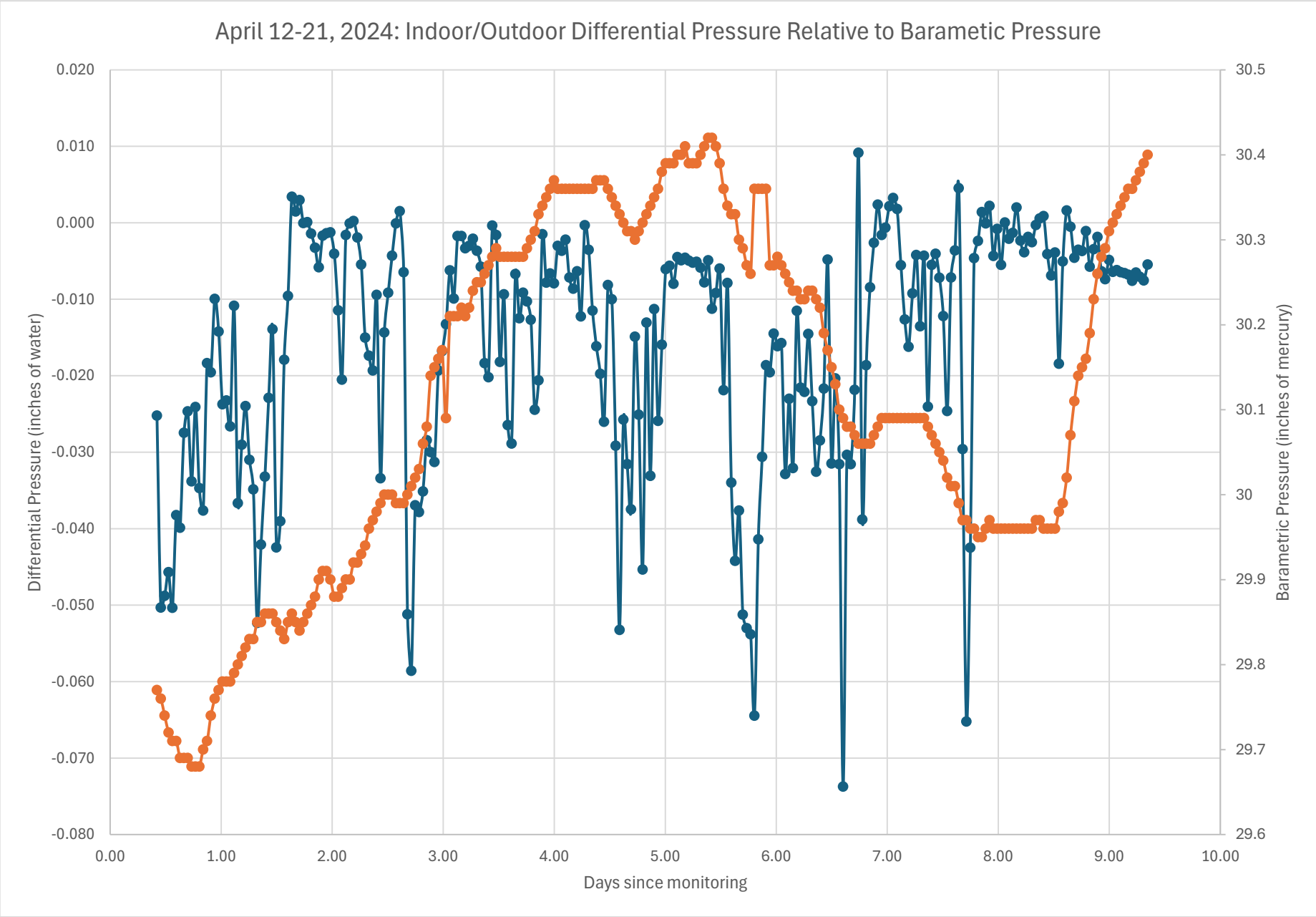


CHART B-2A

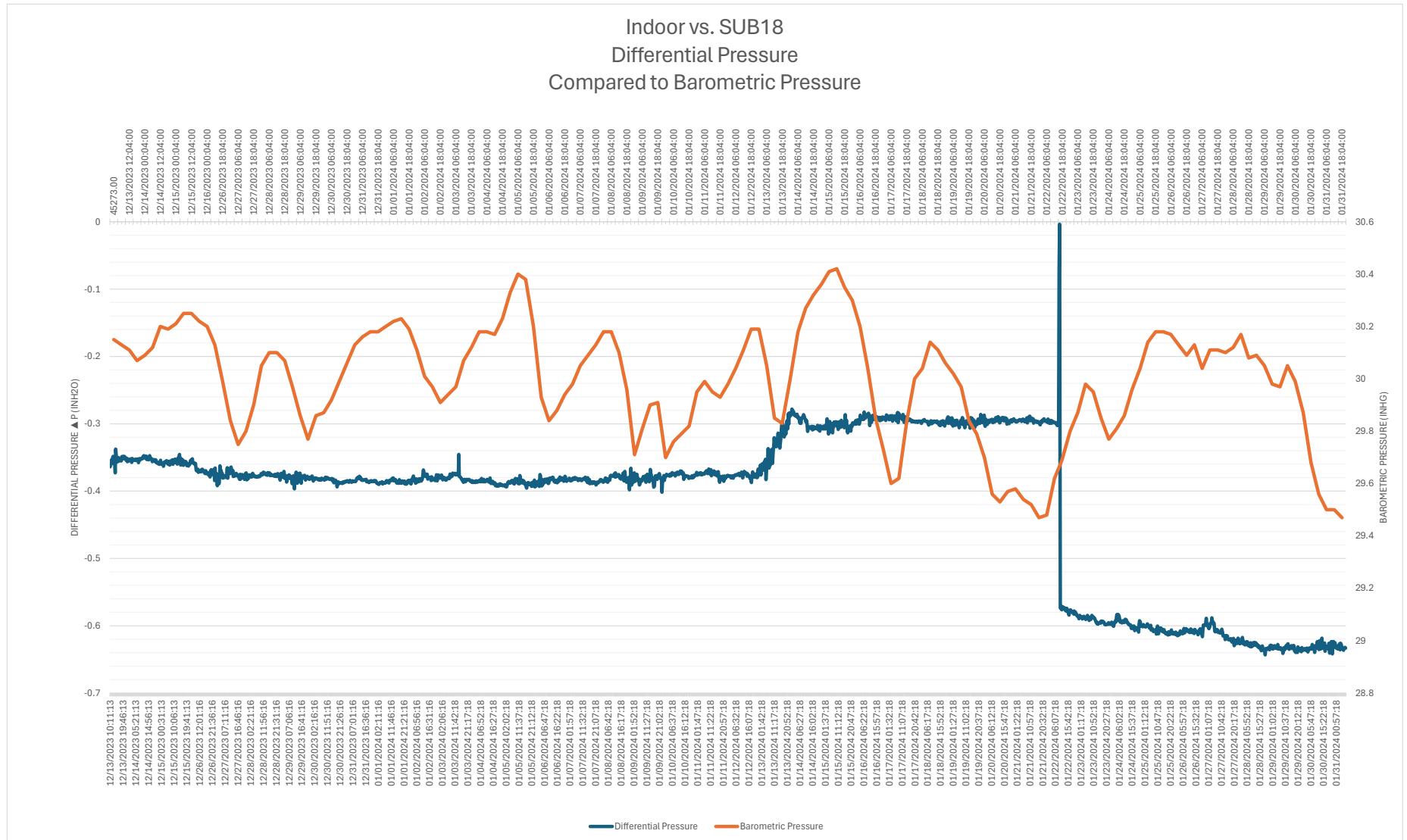


Chart B-2B

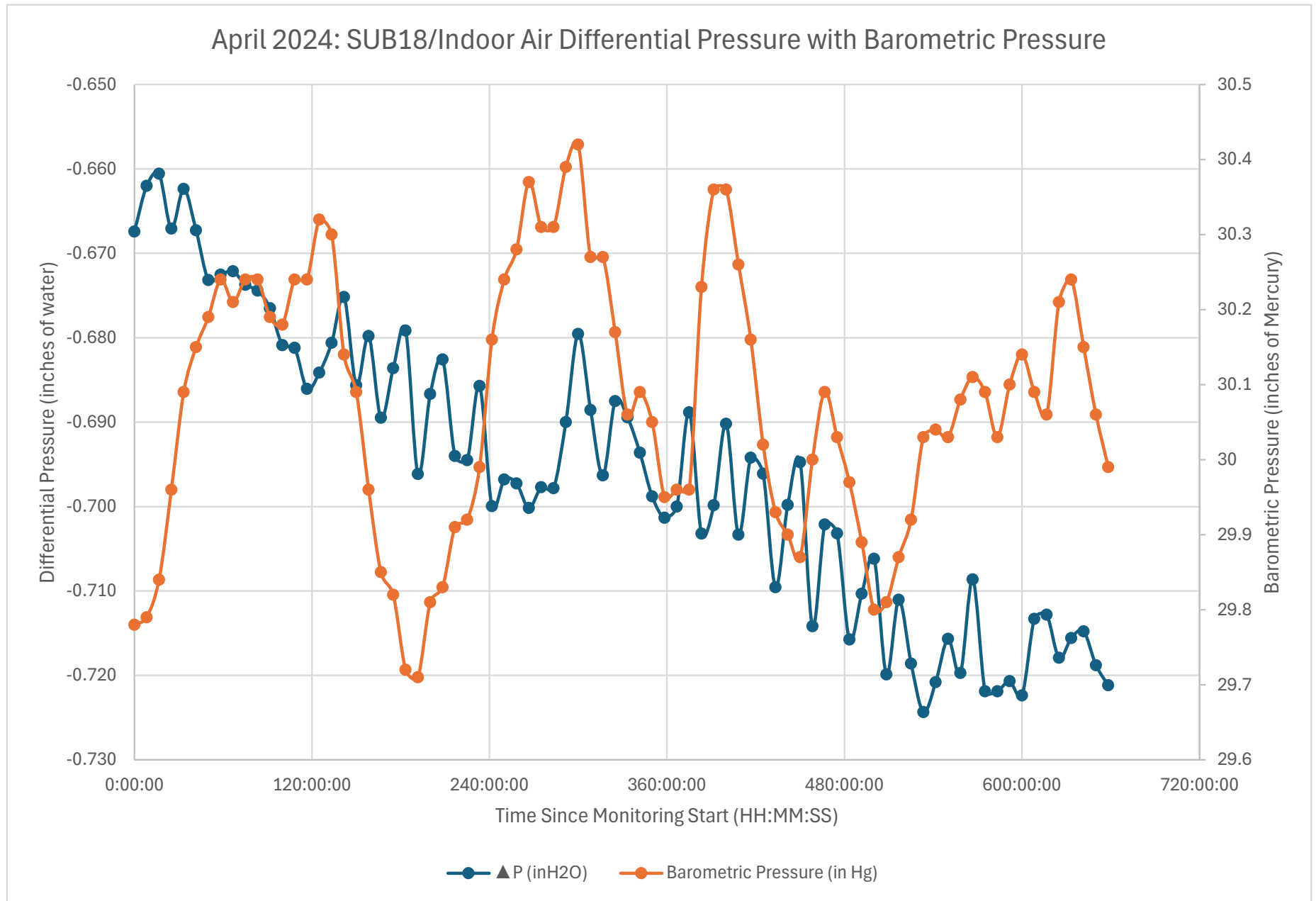
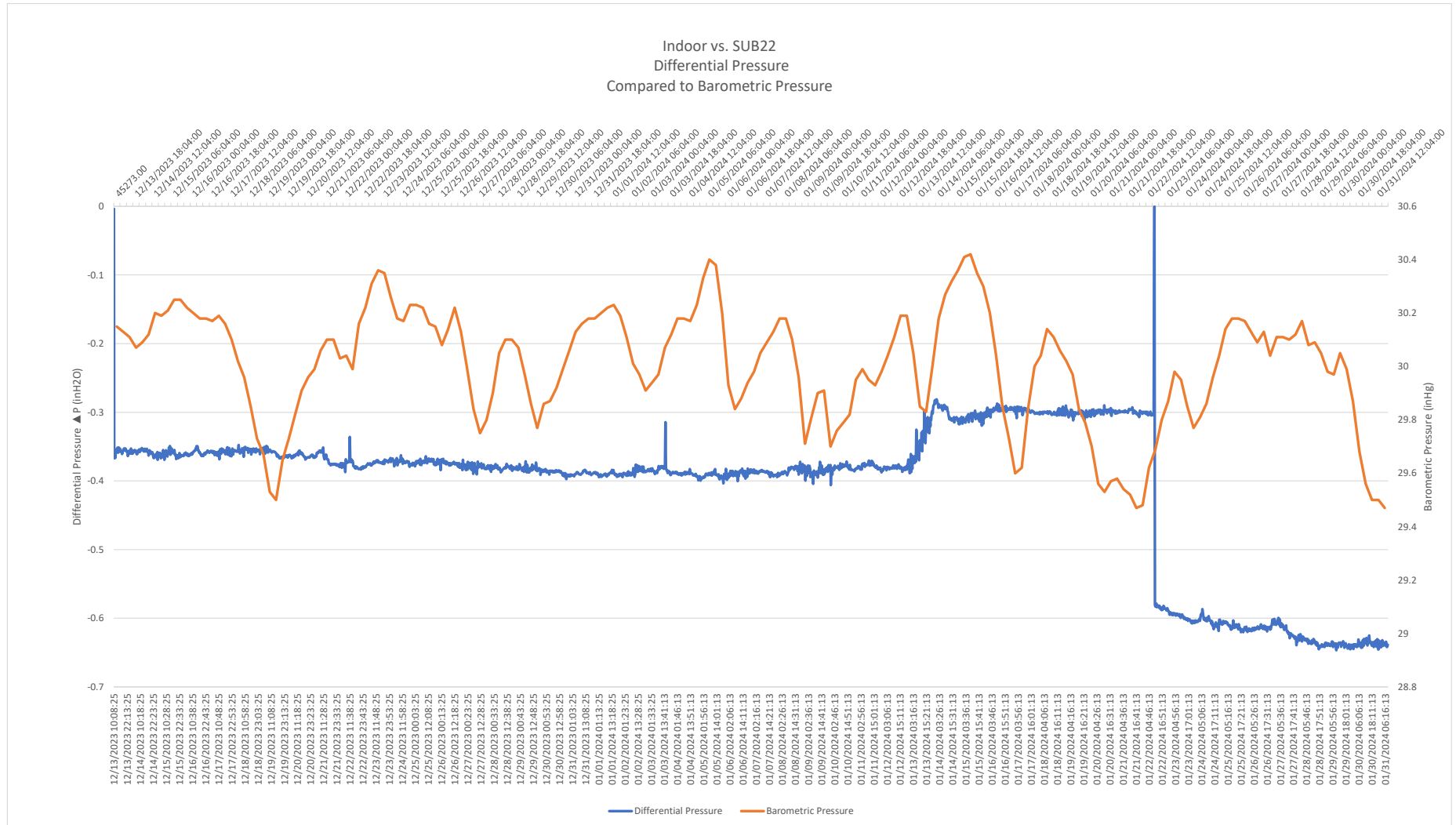
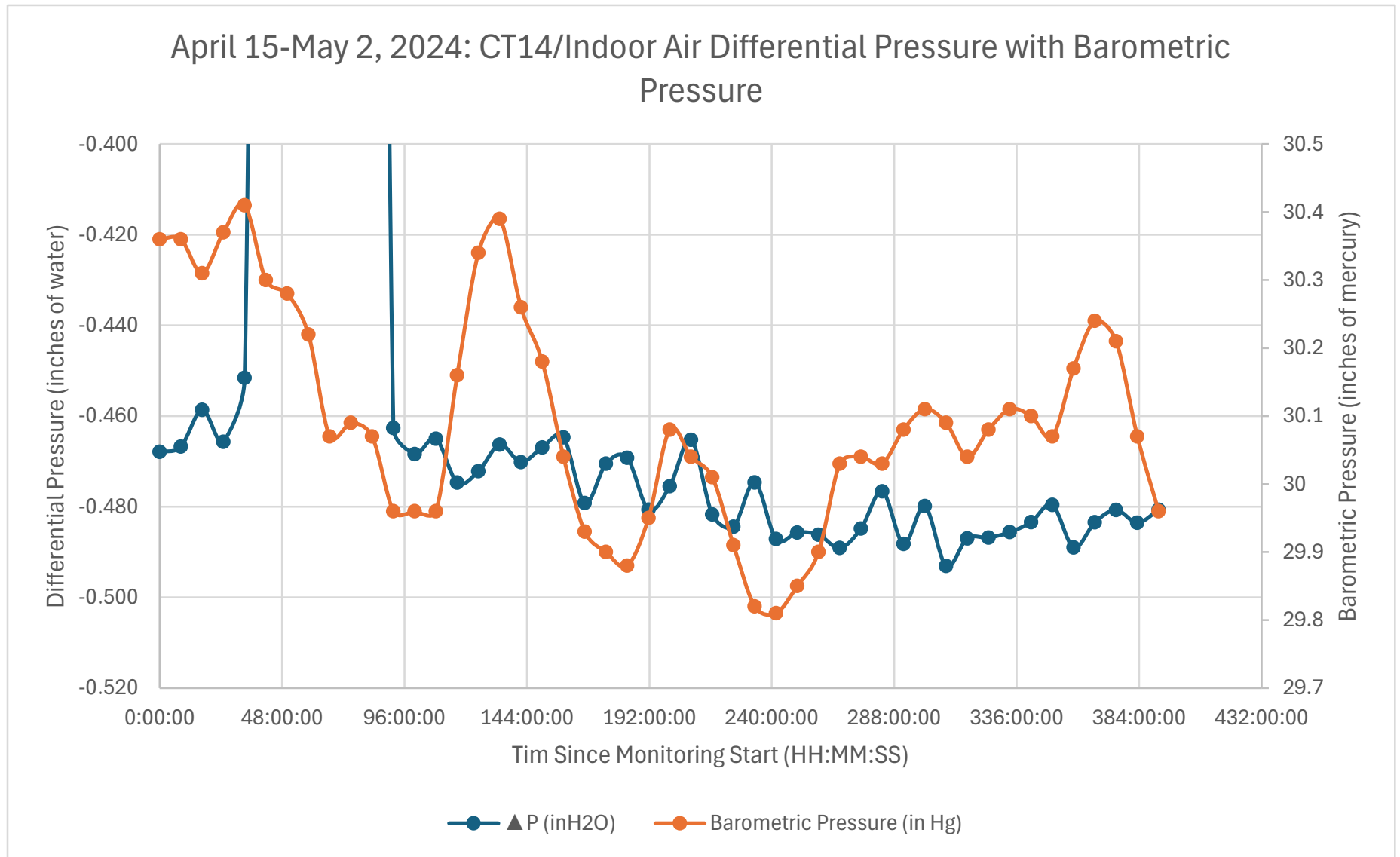


CHART B-3



3/18/2024

Chart B-3B



Appendix C

Product Inventory Forms

PRODUCT INVENTORY FORM

List specific products found in the sample area that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Basement	Chevron Motor Oil	5 gal	U			
	3M Silicone ^{1/2} Pint	13.25 oz	U			
	Bernzomatic	400 gr	U			
	Tri-Flow Lubricant	340 gr	U			
	NOVUS	8 fl oz	UO			
	NAPA motor oil	1 qt	U			
	Mason Re-coating	1 gal	UO			
	MORTAR	50 lbs	U			
	Tile Adhesive	1 gal	U			
	Enzyme Deodorant	1 gal	U			
	Caulk	1/2 Pint	U			
	Mapp Gas	16 oz	U			
	Foam Soap	1100 mL	UO			
	ZEP	510 gr	UO			
	Quik Wax	24 fl oz	UO			
	Turtle Wax	16 fl oz	UO			
	Bulk Silicone	5 gal	U			
	Vanishing Lube	5 gal	D			
	Xylene	1 gal	U			
	Sealant	300 mL	U			
	AC55 Resin	160 mL	UO			
	Metal Polish	32 fl oz	U			
✓	Belt Conditioner	12 oz	U			

*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front & back of the product containers can replace the hand written list of chemical ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

PRODUCT INVENTORY FORM

List specific products found in the sample area that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Basement	Paint thinner	1 pint	U			
	Marking Ink	12oz	U			
	White tint	1 lb	U			
	Anti-spatter spray	12oz	U			
	Screen Ink	1 gal	U			
	Blk Spray Paint	12oz	U			
	Clear Sealer	12oz	UO			
	Gum Turpentine	1 pint	U			
	Ultimate Ink	2oz	U			
	Ultimat Ink	8oz	UO			
Back Hallway	Bearing Grease	14oz	U			
	Ink Cleaner	1 liter	UO			
Front Matter Space	Xeljet	12.5 kilo	UO			
	Gorilla Glue	18oz	U			
	Wood Glue	16oz	U			
	Wax Emulsion	1 qt	UO			
	Tung Oil	1 pint	UO			
	Danish Oil	1 qt	U			
	Wood Stain	8oz	U			
	Tool Cleaner	18oz	U			
	WD-40	10oz	U			
	Propane	15 lbs	U			
	Web Spray	12oz	U			

*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front & back of the product containers can replace the hand written list of chemical ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

PRODUCT INVENTORY FORM

List specific products found in the sample area that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Front Natter spaces ↓	Block Conditioner	12oz	U			
	Gun Spray Paint	11oz	U			
	Cutting Fluid	1 pint	U			
	Mineral Spirits	1 gal	U			
	Zep Cleaner	1 gal	U			
	Rubber Cement	8 oz	UO			
Woodshop ↓	Poly Clearcoat	11oz	U			
	VCT Adhesive	1 gal	U			
	Spray Adhesive	13.8oz	U			
	Stripper	18oz	U			
	Degreaser	1 qt	U			
Back Natter spaces ↓	Indian Ink	16oz	U			
	Rust Remover	8oz	U			
	Super Glue	2oz	U			
	Wood Filler	16oz	UO			
	MolyKote	24oz	U			
	Simple Green	22oz	U			
	Anti-freeze	1 gal	U			
Office ↓	Eye-Saline	180oz	UO			
	Silicone Lube	10.5oz	U			
	Window Tice	4oz	U			
	Vinyl off	10oz	U			
	Fabric Coating	11.5oz	U			

*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front & back of the product containers can replace the hand written list of chemical ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

Appendix D

Field Sampling Data Sheets

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: IA01

SITE ADDRESS:

WIND FROM: N NE E SE S SW W Medium Heavy Temp., C Humidity (%)
WEATHER: SUNNY CLOUDY RAIN 1/12/24 12.77 46.5

Air Setup

Container Type	Date	Volume (L)	Sample Height (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID
Summa	01/11/24	0.5L, 1L, 3L, 5L, 6L	6	IA01-2401	749 (prim)	YES	48

Dew Point	Wet Bulb	Dry Bulb
7.78	2.38	—
627	689	883

when unpurged, gauge reads 25

Indoor Air Sample

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:22	8:27	130	130
Sample	8:30	8:00	130	15

01-11-24 01-31-24

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: IAOZ

SITE ADDRESS:

WIND FROM: N NE E SE S SW W Medium Heavy

WEATHER: SUNNY CLOUDY RAIN

Temp., C Humidity (%)

Dew Point Wet Bulb Dry Bulb

4.22 6.85 3.18

Air Setup

Container Type	Date	Volume (L)	Sample Height (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID
Summa	01-11-24	0.5L, 1L, 3L, 5L, 6L	6	IAOZ-24013	761 (prime)	YES	49

896
751
771

Indoor Air Sample

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:39	8:44	28	28
Sample	8:47	8:10	28	13

01-11-24 01-11-24

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

NOTES:

SAMPLER: Jordan Morris (PRINTED NAME)

[Signature] (SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: IA03

SITE ADDRESS:

WIND FROM: N NE E SE S SW W Medium Heavy Temp., C Humidity (%)
WEATHER: SUNNY CLOUDY RAIN 15.36 43.57

Air Setup

AQP 1/12/24 =

Dew Point 3.24 Wet Bulb 8.18 Dry Bulb —

Container Type	Date	Volume (L)	Sample Height (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID
Summa	01/11/24	0.5L, 1L, 3L, 5L, 6L	6	IA03	857 (Prime)	YES	50

24L

845
885
900

Indoor Air Sample

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:15	9:20	25	27
Sample	9:25	01-31-24	20	01-31-24

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

NOTES:

located in SW Quadrant

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: **IA04**

SITE ADDRESS:

WIND FROM:	N	NE	E	SE	S	SW	W	Medium	Heavy	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN							15.20	45.6

Air Setup

Container Type	Date	Volume (L)	Sample Height (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID
Summa	01/11/24	0.5L, 1L, 3L, 5L, 6L	6	IA04-240124	6176 ^(m-H)	YES NO	52
					757		
					729		
					773		

Indoor Air Sample

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:57	9:02	30	30
Sample	9:02	7:45	30	11

01-11-24 01-11-24

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

NOTES: Location is in basement SE Quadrant

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)



FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: 0A01

SITE ADDRESS:

WIND FROM:	N	NE	E	SE	S	SW	W	Medium	Heavy	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN								

Air Setup

Container Type	Date	Volume (L)	Sample Height (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID
Summa	01/11/24	0.5L, 1L, 3L, 5L, 6L		0A01	660	YES	51
					556		
					877		
					769		

Indoor Air Sample

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:38	9:43	29	29
Sample	9:46	8:20	29	0

01-11-24 01-31-24

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Monte

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SG12-5

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller		Flow Meter ID	Purge Vessel ID
Tedlar Summa	1/31/21	0.5L, 1L, 3L, 5L, 6L	5	SG12-240131-5	343	YES	NO	2602	P97

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	12:23	12:28	30	30
Purge	13:37	13:41	15	14
Sample	13:42	14:25	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Ba ₁
1-31-21	14:26	5	0.0	18.4	0	1.4	0.1	0	80.1
	14:27		0.0						
	14:28		0.0						
	14:29		0.0						
	14:30		0.0						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB20

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY

WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	1/31/24	0.5L, 1L (3L) 5L, 6L	SUB	SUB20-24071	344	YES	NO	2669

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	1222	1227	30	30
Purge	13:16	13:19	16	14
Sample	13:20	13:47	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
01-31-24	14:01	SUB	0.0	20.7	0	0.3
	14:02		0.0			
	14:03		0.0			
	14:04		0.0			
	14:05		0.0			

CH ₄	H ₂	Bal
0.1	0	76.9

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES: Regulator statically at 7" hg prior to check. will stop @ 8"

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB 19

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	
WEATHER:	SUNNY		CLOUDY		RAIN		?					

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/21/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 19-2403	317	☒ YES ☐ NO	2643	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	1224	1229	20	20
Purge	1314	1316	20	19
Sample	1317	1346	27	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Bal
01/21/24	13:51	50B	0.0	20.0	0	0.1	0.1	0	79.0
	13:52		0.0						
	13:53		0.0						
	13:54		0.0						
	13:55		0.0						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: 5612-10

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	/ /	0.5L, 1L, 3L, 5L, 6L		<u>5612-240131-10 358</u>	<u>YES</u>	NO	<u>2512</u>	<u>897</u>

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	<u>1226</u>	<u>1231</u>	<u>30</u>	<u>30</u>
Purge	<u>1304</u>	<u>1308</u>	<u>19</u>	<u>16</u>
Sample	<u>1309</u>	<u>1338</u>	<u>30</u>	<u>5</u>

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
<u>01-21-21</u>	<u>13:41</u>	<u>10</u>	<u>0.0</u>	<u>14.7</u>	<u>0</u>	<u>2.7</u>
	<u>13:42</u>		<u>0.0</u>			
	<u>13:43</u>		<u>0.0</u>			
	<u>13:44</u>		<u>0.0</u>			
	<u>13:45</u>		<u>0.0</u>			

CH ₄	H ₂ S	Ba1
<u>0.2</u>	<u>0</u>	<u>82.4</u>

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-17002-07

SAMPLE LOCATION: SUB 18

SITE ADDRESS:

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	1/31/24	0.5L, 1L, 5L, 6L	SUB	SUB 18-240151	310	YES NO	2639	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	11:00	11:05	730	730
Purge	12:00	12:02	22	21
Sample	12:03	12:45	230	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
01-31-24	12:54	SUB	0.9	21.1	0	0.1
	12:55		0.0			
	12:56		0.0			
	12:57		0.0			
	12:58		0.0			

CH₄ : H₂ S Rel
0.1 | 0 | 78.7

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS [

NOTES:

SAMPLER:

Don Sayko
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER:

SAMPLE LOCATION: CT16

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY		CLOUDY		RAIN		?						

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controler		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	1/31/24	0.5L, 1L, 3L, 5L, 6L	SUB	CT6-240131	376	YES	NO	2589	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	11:11	11:16	29	29
Purge	11:53	11:55	22	20
Sample	11:56	12:08	29	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
01-31-24	12:36	SUB	0.0	20.8	0	0.2
	12:37		0.0			
	12:38		0.0			
	12:39		0.0			
	12:40		0.0			

CH ₄	H ₂ S	Ba1
0.1	0	78.9

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER:

SAMPLE LOCATION: **SUB 22**

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
	WEATHER:		SUNNY	CLOUDY	RAIN	?							

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID	
Tedlar Summa	1/3/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 22-24013	316	YES	NO	2630	897

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	10:56	11:01	29	29
Purge	11:24	11:26	23	21
Sample	11:28	11:58	29	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄ / H ₂ S / Bal.
01-31-24	12:09	SUB	1.1	21.0	0	0.1	0.2 / 0 / 76.8
	12:04		2.5				
	12:05		1.1				
	12:06		1.2				
	12:07		0.5				

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS [

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SG14

SITE ADDRESS:

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar Summa	1/31/24	0.5L, 1L, 6L	16.5-20	SG14-24013	369	YES NO	2588	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	10:55	11:00	>30	>30
Purge	11:29	11:34	29	27
Sample	11:34	12:10	>30	10

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Bal
01-31-24	12:14	20	0.4	20.8	0	0.1	0.1	0	79.0
	12:15		0.8						
	12:16		0.0						
	12:17		0.0						
	12:18		0.1						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS []

NOTES: - Regulator gauge statistically at 9
- Will stop at 10

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB 17

SITE ADDRESS:

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/31/24	0.5L, 1L, 3L, 5L, 6L		SUB 17-240131	308	YES NO	2523	677

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:22	9:27	27	27
Purge	10:37	10:39	22	21
Sample	10:41	11:14	27	9

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)	CH ₄ H ₂ S Bal
01-31-24	11:16	SUB	0.3	21.0	0	0.4	0.2 0 78.8
	11:17		0.0				
	11:18		0.0				
	11:19		0.0				
	11:20		0.0				

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-1902-07

SAMPLE LOCATION: SUB15

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY		Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?										

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/21/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB15-24031	378	YES NO	2575	897

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:22	9:27	27	27
Purge	10:01	10:03	24	23
Sample	10:05	10:29	27	3

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)
01-21-24	11:04	SUB	0.2	20.8	0	0.2
	11:05		1.5			
	11:06		1.5			
	11:07		1.5			
	11:08		1.4			

CH ₄	H ₂ S	Bal
0.1	0	78.9

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: CT17

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C

Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/11/24	0.5L, 1L, 3L, 5L, 6L	SW13	CT17-240131	367	YES	NO	2649	897

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:15	9:20	26	26
Purge	9:47	9:49	24	23
Sample	9:50	10:16	26	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)
01-31-24	10:52	5.08	0.3	20.6	0	0.7
	10:53		1.1			
	10:54		1.2			
	10:55		1.4			
	10:56		1.5			

CH₄ 10.251 Bal
0.1 0 28.6

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

(PRINTED NAME)

Don Sayko

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB16

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	
WEATHER:	SUNNY		CLOUDY		RAIN		?					

Temp., C

Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	1/31/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB16-240131	359	YES	NO	2540

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:16	9:21	30	28.90
Purge	9:31	9:33	28	28
Sample	9:34	10:26	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)
01-31-24	10:29	SUB	0.0	20.8	0	0.1
↓	10:30	↓	0.0			
↓	10:31	↓	0.0			
↓	10:32	↓	0.0			
↓	10:33	↓	0.0			

CH₄ / H₂S / Bal /
0.2 / 0 / 8.8

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION:

SITE ADDRESS:

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY

Temp., C Humidity (%)

WEATHER: SUNNY CLOUDY RAIN ?

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	06-31-24	0.5L, 1L, 3L, 5L, 6L	10	5011-28031-10	338	YES NO	2628	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:15	9:20	30	30
Purge	9:51	9:55	26	25
Sample	9:56	10:32	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)	CH ₄ / H ₂ S / Bq /
06-31-24	10:39	10	0.0	20.6	0	0.7	0.2 / 0 / 78.6
	10:40		0.0				
	10:41		0.0				
	10:42		0.0				
	10:43		0.0				

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOcs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
	SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION:

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C

Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/17/24	0.5L, 1L, 3L, 5L, 6L	5	5411-240136-5	332	YES	2526	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:16	9:16	28	28
Purge	9:34	9:38	25	24
Sample	9:39	10:05	28	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)	CH ₄	H ₂ S	BaI
01-31-24	10:12	5	1.3	20.8	0	0.4	0.2	0	78.6
	10:13		0.3						
	10:14		0.1						
	10:15		0.1						
	10:16		1.5						

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
	SPECIFIC CHEMICAL ANALYSIS [

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: IA01

SITE ADDRESS: 2808-2838 SE 9TH AVE - PORTLAND

WIND FROM:	N	NE	E	SE	S	SW	W	Medium	Heavy	Temp., °F	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN							43F	87%

Air Setup

Sampler Type	Date	Sample Height (ft.)	Sample ID	Sampler ID
Passive Radiello	1/3/24	6	IA01-2024-01	MX545

Indoor Air Sample

Action	Start Time	Finish Time
Sample	11:00 1/3/24	8:09 1/3/24

IAQ parameters on 1/3/24
RH% = 57.29
TEMP = 16.56°C
DP = 10.41°C
WB = 11.23°C

Analysis Allowed per Bottle Type	SAMPLER TYPE	ANALYSIS
	RADIELLO	

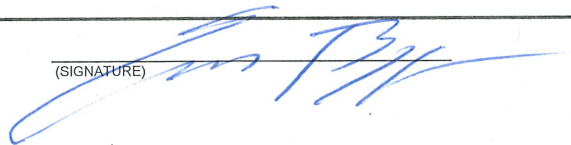
NOTES:

NE Quadrant

SAMPLER:

EVAN BRUGGEMAN
(PRINTED NAME)

(SIGNATURE)



FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: IA02

SITE ADDRESS: 2808-2838 SE 9TH AVE - PORTLAND

WIND FROM:	N	NE	E	(SE)	S	SW	W	(Medium)	Heavy	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	(0)	RAIN						43F	87%

Air Setup

Sampler Type	Date	Sample Height (ft.)	Sample ID	Sampler ID
Passive Radiello	1/3/24	6	IA02-2024-01	MX546

Indoor Air Sample

Action	Start Time	Finish Time
Sample	11:06	8:14

1/3/24 1/3/24

IAQ parameters on 1/31/24
RH% = 60.88
TEMP = 15.95°C
DP = 8.72°C
WB = 11.16

Analysis Allowed per Bottle Type	SAMPLER TYPE	ANALYSIS
	RADIELLO	

NOTES:

NW Quadrant

SAMPLER:

EVAN BRUGEMAN

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION ID: JA03

SITE ADDRESS: 2808-2838 SE 9TH AVE - PORTLAND

WIND FROM:	N	NE	E	SE	S	SW	W	Medium	Heavy	Temp. °C	Humidity (%)
WEATHER:	SUNNY		CLOUDY		RAIN					43F	87%

Air Setup

Sampler Type	Date	Sample Height (ft.)	Sample ID	Sampler ID
Passive Radiello	1/3/24	6	JA03-2024-01	MX541

Indoor Air Sample

Action	Start Time	Finish Time
Sample	11:16	7:54

1/3/2024 1/31/24

IAQ parameters on 1/31 =
RH% = 55.52
TEMP = 17.64 °C
DP = 8.45 °C
WB = 11.65 °C

Analysis Allowed per Bottle Type	SAMPLER TYPE	ANALYSIS
	RADIELLO	

NOTES:

SW Quadrant

SAMPLER:

Evan Berggren
(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19001-07

SAMPLE LOCATION ID: IA04

SITE ADDRESS: 2808-2838 SE 9TH AVE - Portland

WIND FROM:	N	NE	E	SE	S	SW	W	(Medium)	Heavy	Temp., °C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN							43F	87%

Air Setup

Dew Point	Wet Bulb	Dry Bulb
40F		

Sampler Type	Date	Sample Height (ft.)	Sample ID	Sampler ID
Passive Radiello	1/3/24	6	IA04-2024-01	MX542

Indoor Air Sample

Action	Start Time	Finish Time
Sample	11:11	7:45

1/3/24 1/31/24

1/31/24 IAQ =

RH% = 61.63

Temp = 15.90°C

DP = 8.79°C

WB = 10.91

Analysis Allowed per Bottle Type	SAMPLER TYPE	ANALYSIS
	RADIELLO	

NOTES:

SE Quadrant

SAMPLER:

EVAN BRUGEMAN
(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER:

SAMPLE LOCATION: CT16

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY		CLOUDY		RAIN		?						

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	1/31/24	0.5L, 1L, 3L, 5L, 6L	SUB	CT16-240131	376	YES	NO	2589	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	11:11	11:16	29	29
Purge	11:53	11:55	22	20
Sample	11:56	12:08	29	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Bal
01-31-24	12:36	SUB	0.0	20.8	0	0.2	0.1	0	78.9
	12:37		0.0						
	12:38		0.0						
	12:39		0.0						
	12:40		0.0						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

Jordan Morris
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: CT17

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY		Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?										

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2/1/24	0.5L, 1L, 3L, 5L, 6L	SUB	CTF-240201	303	YES	NO	2645 608

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	7:10	7:15	730	730
Purge	8:34	8:36	26	25
Sample	8:39	9:17	230	5

Pressure = -0.2 ps
10:02

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
02/01/24	9:55	SUB	4.2	20.9	0	0.6
	9:56		4.0			
	9:57		4.0			
	9:58		3.9			
	9:59		3.9			

CH ₄	H ₂ S	Bal
0.1	0	78.9

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

Jordan Morris
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: **SG10-5**

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY

WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2/1/24	0.5L, 1L, 3L, 5L, 6L	5	SG10-24001-5	327	☒ YES ☐ NO	2506	609

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	6:56	7:08	28	28
Purge	9:04	9:08	21	10
Sample	9:10	9:36	20	5

Pressure = -110.2 Pa
9:44

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
02-01-24	9:39	5	0.0	21.0	0	0.1
	9:40		1.0			
	9:41		1.1			
	9:42		1.1			
	9:43		1.1			

CH ₄	H ₂ S	Ba
0.1	0	78.8

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

Dan Sayko

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: **SG10-10**

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID	
Tedlar/Summa	02-01-24	0.5L, 1L, 3L, 5L, 6L	10	SG10-24020110	377	YES	NO	2545	514

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	6:49	6:54	27	27
Purge	8:09	8:13	25	23
Sample	8:14	8:47	27	5

Pressure = -107.8 Pa
9:48

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Bal
02-01-24	9:12	10	2.2	20.4	0	0.6	0.1	0	78.5
	9:13		0.8						
	9:14		0.5						
	9:15		0.4						
	9:16		0.4						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

Dan Sajko
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: 5G11-5

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	9/17/24	0.5L, 1L, 3L, 5L, 6L	5	5G11-240171-5	332	YES	NO	2526	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:16	9:16	28	28
Purge	9:34	9:38	25	24
Sample	9:39	10:04	28	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)	CH ₄	H ₂ S	BaI
01-31-24	10:12	5	1.3	20.8	0	0.4	0.2	0	78.6
	10:13		0.3						
	10:14		0.1						
	10:15		0.1						
	10:16		1.5						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS [

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SG11-10

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01-31-24	0.5L, 1L, 3L, 5L, 6L	10	SG11-24031-10	339	YES NO	2628	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:15	9:20	30	30
Purge	9:51	9:55	26	25
Sample	9:56	10:32	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)	CH ₄ / H ₂ S / BzI
01-31-24	10:39	10	0.0	20.6	0	0.7	0.2 / 0 / 78.6
	10:40		0.0				
	10:41		0.0				
	10:42		0.0				
	10:43		0.0				

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS [

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)

Jordan Morris

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: **SG12-5**

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controler	Flow Meter ID	Purge Vessel ID
Tedlar Summa	1/31/24	0.5L, 1L, 3L, 5L, 6L	5	SG12-240131-5	343	YES NO	2602	P97

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	12:23	12:28	30	30
Purge	13:37	13:41	15	14
Sample	13:42	14:25	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	City	H ₂ S	Bod
01-31-24	14:26	5	0.0	18.4	0	1.4	0.1	0	80.1
	14:27		0.0						
	14:28		0.0						
	14:29		0.0						
	14:30		0.0						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: 5612-10

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	/ /	0.5L, 1L, 3L, 5L, 6L		5612-24031-0 358	YES	NO	2512	897

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	1226	1231	30	30
Purge	1304	1308	19	16
Sample	1309	1338	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Ba1
01-21-21	13:41	10	0.0	14.7	0	2.7	0.2	0	82.4
	13:42		0.0						
	13:43		0.0						
	13:44		0.0						
	13:45		0.0						

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB13

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2/1/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB13-240201	394	☒ YES ☐ NO	2522	608

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	7:00	7:00	28	28
Purge	7:35	7:37	24	23
Sample	7:38	8:16	20	5

Pressure: -20.8 psi
8:50

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
02-01-24	8:31	SUB	1.6	20.7	0	0.3
	8:32		2.9			
	8:33		3.5			
	8:34		3.8			
	8:35		4.0			

CH₄ | H₂S | Bal
0.2 | 0 | 76.9

Analysis Allowed per Bottle Type

CONTAINER TYPE TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

TO-15

SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

Jordan Morris
(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: **SG13-5**

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controler		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2/6/24	0.5L, 1L, 3L, 5L, 6L	5	SG13-2402-5	320	YES	NO	2505	608

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	6:50	6:55	29	29
Purge	7:26	7:30	28	28
Sample	7:31	8:05	29	5

Pressure = -20.4 pa
8:57

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Bal
02-01-24	8:36	5	0.7	19.8	0	1.2	0.1	0	78.8
	8:39		0.4						
	8:40		0.5						
	8:41		0.3						
	8:42		0.5						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

Dan Syko
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SG13-10

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY

WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	02-01-24	0.5L, 1L, 5L, 6L	10	SG13-240201-10	365	☒ YES ☐ NO	2531	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	7:05	7:10	29	25
Purge	8:03	8:07	26	24
Sample	8:08	8:37	28	5

Pressure = -20.8 psia
8:56

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Bal
02-01-24	8:47	10	0.0	19.2	0	1.4	0.1	0	79.2
	8:48		0.0						
	8:49		0.0						
	8:50		0.0						
	8:51		0.0						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

Dan Saffa
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB 14

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2/1/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 14 240201	345	YES NO	2617	514

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	7:08	7:13	27	27
Purge	8:19	8:21	24	23
Sample	8:22	8:51	27	5

Pressure = -100.9 fa
9:49

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Ba1
02-01-24	9:20	SUB	0.0	21.0	0	0.1	0.1	0	78.8
	9:21		4.4						
	9:22		0.0						
	9:23		0.0						
	9:24		0.0						

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

Jordan Morris
(PRINTED NAME)

[Signature]
(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SG14

SITE ADDRESS:

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar Summa	1/31/24	0.5L, 1L, 3L, 5L, 6L	16.5-20	SG14-24013	369	YES NO	2588	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	10:55	11:00	>30	>30
Purge	11:29	11:34	29	27
Sample	11:34	12:10	>30	10

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Bal
01-31-24	12:14	20	0.4	10.8	0	0.1	0.1	0	79.0
	12:15		0.8						
	12:16		0.0						
	12:17		0.0						
	12:18		0.1						

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
		SPECIFIC CHEMICAL ANALYSIS []

NOTES: - Regulator gauge statistically at 9
- Will stop at 10

SAMPLER:

(PRINTED NAME)

Jordan Moore

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-MAR-07

SAMPLE LOCATION: SUB15

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY		CLOUDY		RAIN	?							

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/22/07	0.5L, 1L, 3L, 5L, 6L	SUB	SUB15-21031	376	YES	2575	897

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:02	9:27	27	27
Purge	10:01	10:03	24	23
Sample	10:05	10:29	27	3

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)
01-21-07	11:04	SUB	0.2	20.8	0	0.2
	11:05		1.5			
	11:06		1.5			
	11:07		1.5			
	11:08		1.4			

Analysis Allowed per Bottle Type

CONTAINER TYPE TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Davis

Linda Mann
(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST										PO Box 14488 Portland, Oregon, 97293 503-452-5561 Fax: 503-452-7669									
PROJECT NAME/NUMBER: 186-190207										SAMPLE LOCATION: SUB16									
SITE ADDRESS:										DUP ID:									
WIND FROM:		N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C		Humidity (%)				
WEATHER:		SUNNY		CLOUDY			RAIN	?											

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar Summa	1/31/14	10.5L, 1L, 3L, 5L, 6L	SUB	SUB16-240131	359	YES	2540	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak Test	9:16	9:21	30	28.90
Purge	9:31	9:33	28	28
Sample	9:34	10:26	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)
01-24-24	10:29	SUB	0.0	20.9	0	0.1
	10:30		0.0			
	10:31		0.0			
	10:32		0.0			
	10:33		0.0			

CH₄ (H₂ / Bal)
0.2 (0) / 0.0

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)									
Analysis Allowed per Bottle Type	BTX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)									
	NON-METHANE ORGANIC CMPOS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)									
	TPH as Diesel (TO-17)									
	SPECIFIC CHEMICAL ANALYSIS []									

NOTES:

SAMPLER: Jordan Harris

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB17

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/21/24	0.5L, 1L, 3L, 5L, 6L		SUB17-24051	368	YES	2523	617

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:22	9:27	27	27
Purge	10:37	10:39	22	21
Sample	10:41	11:14	27	9

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)
01-21-24	11:16	5.08	0.3	21.0	0	0.1
	11:17		0.0			
	11:18		0.0			
	11:19		0.0			
	11:20		0.0			

CH₄ 14.51 Bad
0.2 0 78.8

Analysis Allowed per Bottle Type

TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC CMPS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS [

NOTES:

SAMPLER:

Dan Sayko
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-17002-07

SAMPLE LOCATION: SUB 18

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar Summa	1/31/24	0.5L, 1L, 3L, 5L, 6L	SUB 18	SUB 18-240151	310	YES	2639	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	11:00	11:05	730	730
Purge	12:00	12:02	22	21
Sample	12:03	12:45	730	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
01-31-24	12:54	SUB	0.3	21.1	0	0.1
	12:55		0.0			
	12:56		0.0			
	12:57		0.0			
	12:58		0.0			

CH₄ - 11.2% BCL
0.1 | 0 | 78.7

Analysis Allowed per Bottle Type

CONTAINER TYPE TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

STEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/VOCS (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS (

1

NOTES:

SAMPLER:

Don Sayko

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB 19

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY		CLOUDY			RAIN	?						

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/11/14	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 19-24013	317	YES	NO 2643	880

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	1224	1229	28	20
Purge	1314	1316	20	19
Sample	1317	1346	27	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)	CH ₄	H ₂ S	Rad
01/11/14	13:15	SUB	0.0	20.0	0	0.1	0.1	0	20.0
	13:52		0.0						
	13:53		0.0						
	13:54		0.0						
	13:55		0.0						

Analysis Allowed per Bottle Type

TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS: Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichloroethane, TCE, PCE, GRO, IPA

TO-15

NOTES:

SAMPLER:

Jordan Morris

Jordan Morris

(SIGNATURE)

(PRINTED NAME)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB20

SITE ADDRESS: Irvin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	1/31/24	0.5L, 1L (3L) 5L, 6L	SUB	SUB20-240731	344	YES	NO	2669

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	1222	1227	30	30
Purge	13:10	13:14	16	14
Sample	13:20	13:27	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
01-31-24	14:01	SUB	0.0	20.7	0	0.3
	14:02		0.0			
	14:03		0.0			
	14:04		0.0			
	14:05		0.0			

CH₄ / H₂ / Bal /
0.1 / 0 / 78.9 /Analysis Allowed
Per Bottle Type

CONTAINER TYPE TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDES/PCBs (TO-4) ALDEHYDES/KETONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KETONES (TO-11)

NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCS (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

TO-15 SPECIFIC CHEMICAL ANALYSIS (Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichloroethane, TCE, PCE, GRO, IPA)

NOTES:

Regulator statically at 7" hg prior to check. will stop @ 8"

SAMPLER:

Jordan Morris

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB21

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY		CLOUDY			RAIN	?						

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2/1/24	0.5L, 1L, 3L, 6L	SUB	SUB21-24001	383	YES	2425	600

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	7:09	7:14	20	20
Purge	9:39	9:43	18	17
Sample	9:44	10:12	27	3

Pressure = -9.0 ps
10:25

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
02-01-24	10:15	SUB	2.0	21.0	0	0.4
	10:16		2.1			
	10:17		2.1			
	10:18		2.1			
	10:19		2.0			

ethy H₂S / Bal
0.1 / 0 / 78.4

Analysis Allowed per Bottle Type

TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDES/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS (Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichloroethane, TCE, PCE, GRO, IPA)

NOTES:

SAMPLER:

Dan Saffo
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER:

SAMPLE LOCATION: **SUB 22**

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY		CLOUDY			RAIN	?						

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar (Summa)	1/3/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 22-24013	316	YES	2630	897

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	10:56	11:01	29	29
Purge	11:24	11:26	23	21
Sample	11:28	11:58	29	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
01-31-24	12:04	SUB	1.1	21.0	0	0.1
	12:04		2.5			
	12:05		1.1			
	12:06		1.2			
	12:07		0.5			

CH₄ / 42.9 / 8.1 /
0.2 / 0 / 76.8Analysis Allowed
per Bottle Type

CONTAINER TYPE

TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDES/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS [

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST										PO Box 14488 Portland, Oregon, 97293 503-452-5561 Fax: 503-452-7669									
PROJECT NAME/NUMBER: 186-19002-07										SAMPLE LOCATION: SSD01									
SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland										DUP ID:									
WIND FROM:		N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., °F		Humidity (%)				
WEATHER:		SUNNY											50		78				

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2-1-24	0.5L, 1L, 3L, 5L, 6L	SOURCE	SSD01-1A1T-240201	933	YES	2661	SSD01

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	07:55	08:30	29	29
Purge				
Sample	10:12	11:30	29	5

Pressure 2837.8 Pa
11:41

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
02-01-24	11:44		0.0			
	11:45		0.0			
	11:46		0.0			
	11:47		0.0			
	11:48		0.0			

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
Analysis Allowed per Bottle Type	BTEX/THP (TO-3) PESTICIDES/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichloroethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER: Jordan	Signature: Jordan
-----------------	-------------------

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST
 PO Box 14488
 Portland, Oregon, 97293
 503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: S5002

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., °F	Humidity (%)
WEATHER:	SUNNY											50	78

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	2/12/00	0.5L, 1L, 6L	5000	S5002-VEN-2000	308	YES	2600	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	7:12	7:17	30	30
Purge				
Sample	10:14	10:52	30	5

Pressure = 316.5 psia

(1:01)

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
02-01-04	10:54		0.0			
	10:55		0.0			
	10:56		0.0			
	10:57		0.0			
	10:58		0.0			

Analysis Allowed per Bottle Type

CONTAINER TYPE TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC COMPOUNDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS (Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichloroethane, TCE, PCE, GRO, IPA)

NOTES:

SAMPLER:

Sorhan Harris

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-1902-07

SAMPLE LOCATION: CT17

SITE ADDRESS:

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	01/11/24	0.5L, 1L, 3L, 5L, 6L	SW3	CT17-240131	367	YES	2644	897

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	9:15	9:20	26	26
Purge	9:47	9:49	24	23
Sample	9:50	10:16	26	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (ppm)	CO (ppm)	CO ₂ (ppm)
01-31-24	10:52	5.08	0.3	20.6	0	0.7
	10:53		1.1			
	10:54		1.2			
	10:55		1.4			
	10:56		1.5			

May have been
compromised,
Re-sampled
02-01-24

CH₄ 10.51 Bar
0.1 / 0.1

Analysis Allowed per Bottle Type

TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)

BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)

NON-METHANE ORGANIC CMPOS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)

TPH as Diesel (TO-17)

SPECIFIC CHEMICAL ANALYSIS []

NOTES:

SAMPLER:

Don Safo
(PRINTED NAME)


(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION:

SG14 (5/03)

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/10/24	0.5L, 1L, 3L, 5L, 6L	~16'	SG14-240503	355	YES	NO	2553

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:01	8:06	750	730
Purge	10:05	10:09	20	10
Sample	10:10	10:36	730	7

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/3/24	10:41		1.9			
	10:42		0.1			
	10:43		0.1			
	10:44		0.0			
	10:45		0.0			
	10:47		18.6	0	2.1	

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

Gauge rests at 5" H₂O!

SAMPLER:

(PRINTED NAME)

Dan Sanko

(SIGNATURE)



FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SGH-5

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/03/24	0.5L, 1L, 3L, 5L, 6L	5	SGH-5-240003	334	YES NO	2912	438

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:22	8:27	28	28
Purge	8:30	8:44	18	14
Sample	8:46	9:11	28	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05/03/24	9:21	5'	0.4			
	9:22	5'	0.2			
	9:23		0.1			
	9:24		0.0			
	9:25		0.0			
	9:27			20.8	0	0.4

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichloroethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION:

5613-10

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05-03-21	0.5L, 1L, 3L, 5L, 6L	10	5613-240503-10	356	YES NO	2602	434

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:01	8:05	30	30
Purge	8:30	8:42	25	24
Sample	8:42	8:45	30	5

Sticky gauge

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: 5613-5

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	5/10/24	0.5L, 1L, 3L, 5L, 6L	5	5613-240503-5	383	YES NO	2555	434

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:00	8:00	730	730
Purge	9:37	9:41	21	19
Sample	9:42	10:12	730	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/13/24	10:16	5'	0.6			
	10:17		0.6			
	10:18		0.6			
	10:19		0.6			
	10:20		0.6			
	10:22			19.9	0	1.1

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

gauge resets at 10!

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUBA

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C	Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/10/01	0.5L, 1L, 3L, 5L, 6L	518	SUBA-240503	335	YES	NO	2527	420

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	8:01	8:06	27	27
Purge	8:55	9:00	13	11
Sample	9:01	9:20	27	4

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/3/24	9:51	SUB	6.8			
"	9:52		5.0			
"	9:53		3.7			
"	9:54		3.1			
"	9:55		2.4			
"	9:57			21.0	0	0.1

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSS (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB 13

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C	Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	5/2/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 13-240502	330	YES	2569	434

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:01	8:06	730	730
Purge	8:29	8:31	29	27
Sample	8:32	9:02	730	9

gauge statically @ 7"Hg close @ 9"Hg

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/2/24	10:04	SUB	1.9			
	10:05		0.1			
	10:06		0.1			
	10:07		0.1			
	10:08		0.0			
	10:12			20.8	0	0.2

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SSD01

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/09/24	0.5L, 1L, 3L, 5L, 6L	Source	SSD01-240902	314	YES	NO	2665

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	11:01	11:06	730	730
Purge				
Sample	11:47	12:32	730	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05-09-24	12:38	SSV	0.2			
	12:39		0.0			
	12:40		0.0			
	12:41		0.0			
	12:42		0.0			

Pressure = 1.339" H₂O

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION:

SSD02

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05-03-14	0.5L, 1L, 3L, 5L, 6L	Source	SSD02-240902-341		YES	NO	2645

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	11:00	11:05	730	730
Purge				
Sample	11:37	12:30	730	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05-03-14	12:32	4V	0.8			
	12:33		0.1			
	12:34		0.1			
	12:35		0.1			
	12:36		0.1			

Pressure = 1.257" H₂O

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

Dan Sayko

(SIGNATURE)



FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: CT17

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:

N NE E SE S SW W NW LIGHT MEDIUM HEAVY

WEATHER:

SUNNY CLOUDY RAIN ?

Temp., C

Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	5/2/24	0.5L, 1L, 3L, 5L, 6L	5m3	CT17-240502	319	YES	NO	2501

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:47	9:04	28	28
Purge	9:25	9:27	27	25
Sample	9:28	9:53	28	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/2/24	9:56	5m3	4.7			
	9:57		2.5			
	9:58		2.4			
	9:59		2.3			
	10:00		2.3			

20.0 0 0.3

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUBM

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	5/10/24	0.5L, 1L, 3L, 5L, 6L	SUB	SUBM19002-07 934		YES	NO	2625 435

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:59	9:04	28	28
Purge	9:22	9:25	29	27
Sample	9:26	9:57	28	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/10/24	10:04	SUB	0.5			
	10:05		0.8			
	10:06		1.0			
	10:07		1.3			
	10:08		11.6			

20.7 0 0.5 - Flow alarm after 40 secs.

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB15

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	5/2/04	0.5L, 1L, 3L, 5L, 6L	SUB	SUB15-240504	312	YES	NO	2664

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	8:59	9:04	730	730
Purge	1:30	9:40	730	730
Sample	9:41	11:22	730	23

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/2/04	11:25	SUB	0.7			
	11:26		0.7			
	11:27		0.7			
	11:28		0.7			
	11:29		0.7			

2.3 6 0.1

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSS (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB16

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05-02-24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB16-240507	380	YES	NO	2660

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	12:10	12:15	28	28
Purge	13:42	13:51	17	19
Sample	14:53	14:55	28	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05-02-24	14:33	SUB	5.8	21.1	0	0.1
	14:34		3.7			
	14:35		1.8			
	14:36		1.0			
	14:37		0.9			

CH₄ / H₂ / P₂ / S
0.2 / 0 / 78.6

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSS (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
 Portland, Oregon, 97293
 503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB1B

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
 WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/02/24	0.5L, 1L, 3L, 5L, 6L	SUB3	SUB1B-240502	387	YES NO	2589	434

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:24	9:29	30	30
Purge	10:41	10:43	26	24
Sample	10:44	11:13	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/2/24	11:16	SUB3	0.7			
	11:17		0.2			
	11:18		0.1			
	11:19		0.1			
	11:20		0.1			
	11:22			21.2	0	0.1

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

* Can hear air flow through after vapor pin

SAMPLER:

(PRINTED NAME)

Dan Sayko

(SIGNATURE)

[Signature]

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB19

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	09/02/04	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 19-240502	339	YES	NO	2545 435

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	11:05	11:10	27	27
Purge	11:27	11:29	18	13
Sample	11:30	12:02	27	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
09/02/04	12:11	5.013	0.4	21.3	0	0.1
	12:16		0.2			
	12:13		0.2			
	12:14		0.1			
	12:15		0.1			

CH ₄	H ₂ S	Ba
0.2	0	78.9

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB 20

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05-02-04	0.5L, 1L, 3L, 5L, 6L	SUB	SUB20-2450	359	YES NO	2939	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	10:45	10:50	29	29
Purge	11:51	11:55	28	26
Sample	12:00	12:31	29	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05-02-04	12:54	9.08	0.2	21.1	0	0.3
	12:55		0.0			
	12:56		0.0			
	12:57		0.0			
	12:58		0.0			

CH ₄	H ₂ S	BOI
0.2	0	78.5

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSS (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SUB 21

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05-02-24	0.5L, 1L, 3L, 5L, 6L	SUB	SUB 21-240402	313	YES	NO	2501

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	10:45	10:50	28	26
Purge	12:01	12:03	25	23
Sample	12:04	12:04	20	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05-02-24	13:10	SUB	1.2	22.0	0	0.2
	13:11		0.9			
	13:12		0.9			
	13:13		0.9			
	13:14		0.9			

CH ₄	H ₂ S	Bal
0.1	0	78.7

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SOB22

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?				

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	/ /	0.5L, 1L, 3L, 6L	SUB	SOB22-240502	393	(YES) NO	2531	435

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:23	9:28	730	730
Purge	9:51	9:54	26	24
Sample	9:55	10:27	730	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
SOB22	1030	SUB	0.5			
	1031		0.1			
	1032		0.1			
	1033		0.0			
	1034		0.0			
	1030		21.1	0	0.1	

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION:

SG10-5

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	5/02/24	0.5L, 1L, 3L, 5L, 6L	5	SG10-N0502-5	385	YES NO	2563	435

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:26	9:31	30	30
Purge	10:14	10:19	23	19
Sample	10:21	10:50	30	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/02/24	10:51	5'	1.2			
	10:52		1.3			
	10:53		1.3			
	10:54		1.3			
	10:55		1.3			

21.2 0.0 0.1

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SG10-10

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	5/12/24	0.5L, 1L, 3L, 5L, 6L	10	SG10-10-240502	368	YES	NO	2636	435

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	<u>8:49</u>	<u>9:04</u>	<u>28</u>	<u>28</u>
Purge	<u>9:33</u>	<u>9:37</u>	<u>28</u>	<u>26</u>
Sample	<u>9:38</u>	<u>10:04</u>	<u>28</u>	<u>5</u>

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
<u>5/02/24</u>	<u>10:10</u>	<u>10'</u>	<u>0.0</u>			
	<u>10:11</u>		<u>0.0</u>			
	<u>10:12</u>		<u>0.3</u>			
	<u>10:13</u>		<u>0.3</u>			
	<u>10:14</u>		<u>0.4</u>			

20.4 0 0.5

Analysis Allowed per Bottle Type	CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
		BTEX/TPH (TO-3) PESTICIDE/PCSs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
		NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
		TPH as Diesel (TO-17)
	TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: 5611-10

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?							

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05-02-29	0.5L, 1L, 3L, 5L, 6L	10	5611-10-240502	300	YES NO	2575	

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	12:10	12:15	29	29
Purge	13:57	13:57	27	19
Sample	13:49	14:21	29	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05-02-29	14:25	10	0.7	20.9	0	0.5
	14:26		0.2			
	14:27		0.1			
	14:28		0.0			
	14:29		0.0			

CH ₄	H ₂ S	Ba1
0.2	0	78.4

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SGR-5

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller		Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/02/24	0.5L, 1L, 3L, 5L, 6L	5	SG12-5-240502	338	YES	NO	2681	435

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressure (mmHg)	Final Pressure (mmHg)
Leak-Test	<u>12:10</u>	<u>12:15</u>	<u>27</u>	<u>27</u>
Purge	<u>12:30</u>	<u>12:35</u>	<u>26</u>	<u>15</u>
Sample	<u>12:38</u>	<u>13:02</u>	<u>27</u>	<u>9</u>

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
<u>05-02-24</u>	<u>13:22</u>	<u>5</u>	<u>0.4</u>	<u>20.7</u>	<u>0</u>	<u>0.8</u>
	<u>13:23</u>		<u>0.1</u>			
	<u>13:24</u>		<u>0.0</u>			
	<u>13:25</u>		<u>0.0</u>			
	<u>13:26</u>		<u>0.0</u>			

<u>CH₄</u>	<u>H₂S</u>	<u>Ba1</u>
<u>0.1</u>	<u>0</u>	<u>78.4</u>

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCSS (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: S&12-10

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ?

Temp., C Humidity (%)

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/02/04	0.5L, 1L, 3L, 5L, 6L	10	S&12-10-24002	347	YES NO	2639	495

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	10:45	10:50	29	29
Purge	11:43	11:46	20	18
Sample	11:47	12:21	29	5

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
05-02-04	12:25	10	0.3	19.9	0	1.7
	12:26	1	0.0			
	12:27	1	0.0			
	12:28	1	0.0			
	12:29	1	0.0			

CH ₄	H ₂ S	Bq/l
0.2	0	78.2

Analysis Allowed per Bottle Type

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

Jordan Morris

(SIGNATURE)

Jordan Morris

FIELD SAMPLING DATA SHEET

EVREN NORTHWEST

PO Box 14488
Portland, Oregon, 97293
503-452-5561 Fax: 503-452-7669

PROJECT NAME/NUMBER: 186-19002-07

SAMPLE LOCATION: SG14

SITE ADDRESS: Irwin Hodson Building - 2808-2838 SE 9th Ave, Portland

DUP ID:

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY	Temp., C	Humidity (%)
WEATHER:	SUNNY	CLOUDY	RAIN	?									

SOIL GAS SETUP DATA

Container Type	Date	Volume (L)	Sample Depth (ft.)	Sample ID	Summa ID	Flow Controller	Flow Meter ID	Purge Vessel ID
Tedlar/Summa	05/02/24	0.5L, 1L, 3L, 5L, 6L	16'	SG14-16-240502	311	☒ YES	NO	2585 434

SOIL GAS SAMPLING DATA

Action	Start Time	Finish Time	Init Pressue (mmHg)	Final Pressue (mmHg)
Leak-Test	9:27	9:32	29	29
Purge	10:21	10:25	27	27
Sample	10:28	11:47	29	4

SOIL GAS SCREENING

Date	Time	Depth (ft)	PID (ppm)	O ₂ (%)	CO (ppm)	CO ₂ (%)
5/2/24	10:59	~16'	0.3			
	11:00		0.3			
	11:01		0.2			
	11:02		0.1			
	11:03		0.0			

CONTAINER TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	BTEX/TPH (TO-3) PESTICIDE/PCBs (TO-4) ALDEHYDES/KEYTONES (TO-5) PESTICIDES/PCBs (TO-10) ALDEHYDES/KEYTONES (TO-11)
	NON-METHANE ORGANIC CMPDS (TO-12) PAHs/SVOCs (TO-13) VOCs (TO-15)
	TPH as Diesel (TO-17)
TO-15	SPECIFIC CHEMICAL ANALYSIS [Benzene, Carbon Tetrachloride, Chloroform, EDB, EDC, Ethylbenzene, Naphthalene, 1,2,3-Trichlorethane, TCE, PCE, GRO, IPA]

NOTES:

SAMPLER:

(PRINTED NAME)

Dan Sayko

(SIGNATURE)

[Signature]

Appendix E

PCE and TCE Plots

Chart E-1

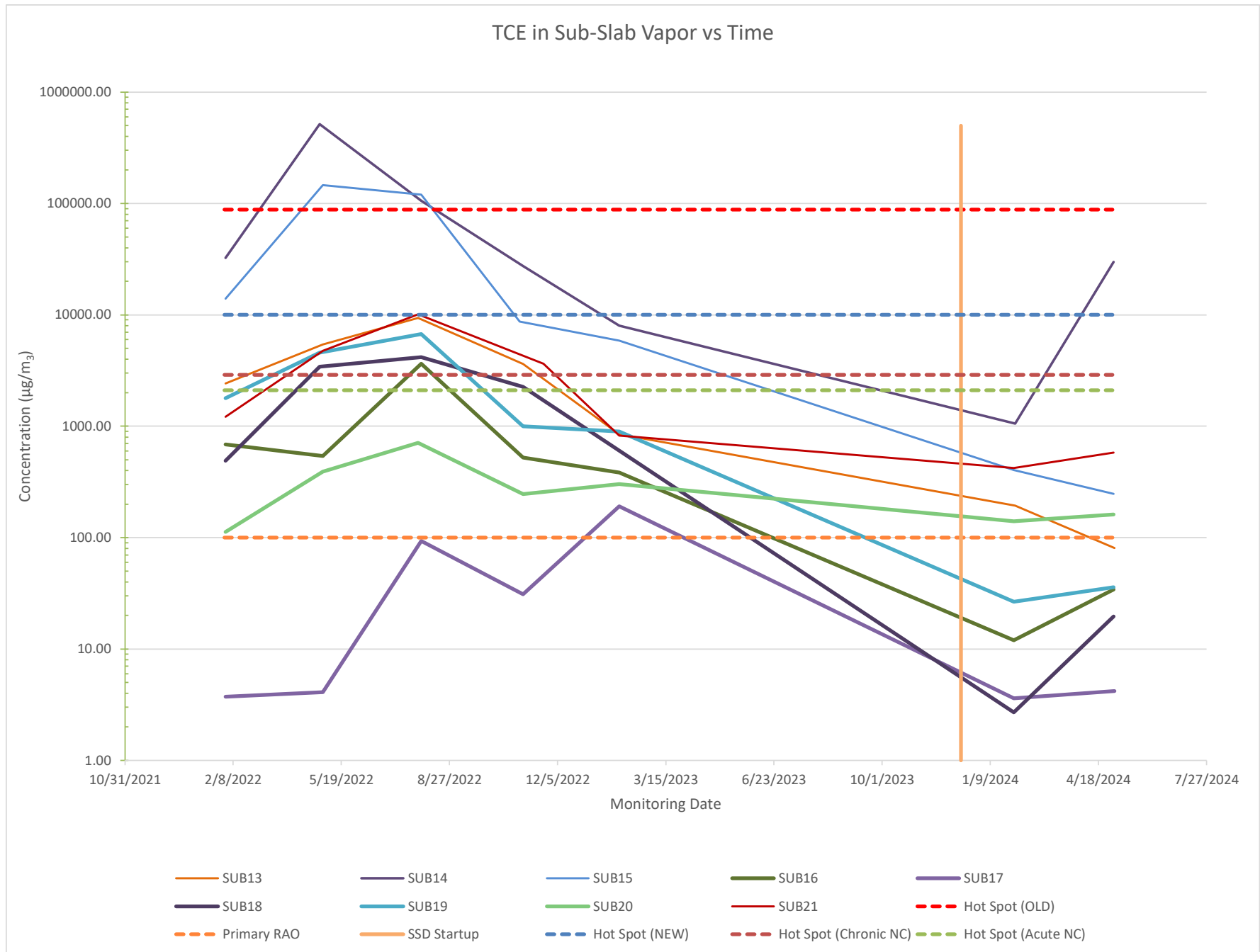
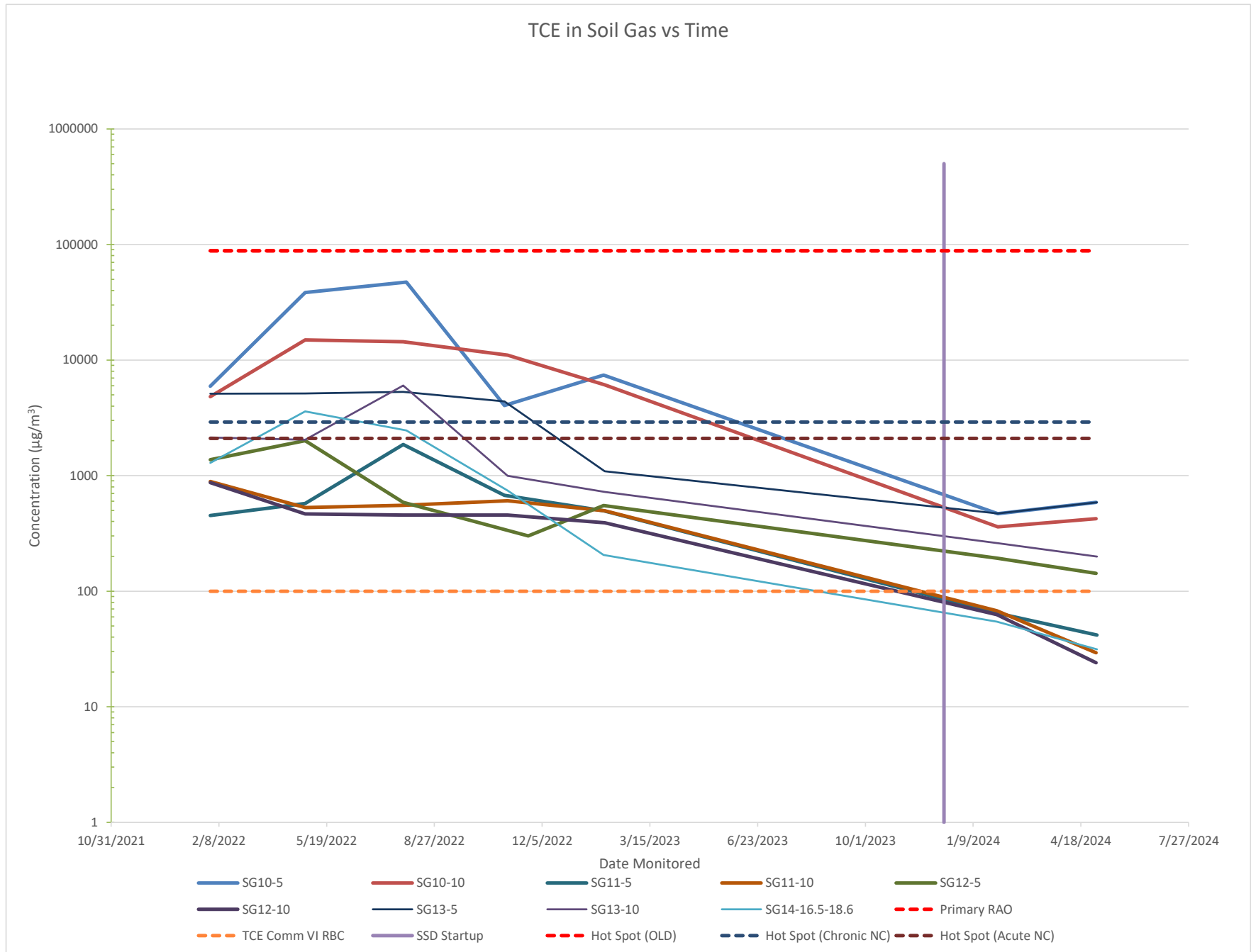


Chart E-2



Appendix F

Laboratory Analytical Reports

Analytical Laboratory Data Validation Check Sheet

Project Name: Irwin Hodson Building-2808-2838 SE 9th Avenue, Portland

Project Number: 186-19002-07

Date of Review: 2/23/24

Lab. Name: EAS

Lab Batch ID #: 224049 REV

Chain of Custody

- 1.) Are all requested analyses reported? ☒yes ☐no
- 2.) Were the requested methods used? ☒yes ☐no
- 3.) Trip blank submitted? ☐yes ☒no
- 4.) Field blank submitted? ☐yes ☒no

Timing

- 5.) Samples extracted within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 6.) Analysis performed within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Quality Assurance/Quality Control

- 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) ☒yes ☐no
- 8.) Are all reported values above either MRL or MDL? ☐yes ☒no

For sample IA03-240131, the Trichloroethene amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background. (J)

- 9.) Are all values between the MDL & PQL tagged as trace? ☐yes ☒no ☐NA
- 10a.) Are reporting limits raised for other reason besides high analyte conc.? ☐yes ☒no
- 10b.) If so, are they footnoted? ☐yes ☐no ☒NA
- 11.) Lab method blank completed? ☒yes ☐no
- 12.) Lab, Field, or Trip Blank(s) report detections? ☐yes ☒no
- If yes, indicate blank type, chemical(s) and concentration(s):

- 13.) For inorganics and metals, is there one method blank for each analyte? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no
- 14.) For VOCs, is there one method blank for each day of analysis? ☒yes ☐no ☐NA
If not, are all discrepancies footnoted? ☐yes ☐no
- 15.) For SVOC's, is there one method blank for each extraction batch? ☒yes ☐no ☐NA
If not, are all discrepancies footnoted? ☐yes ☐no

Accuracy

- 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? ☒yes ☐no ☐NA
Do all surrogate spike recoveries meet accepted criteria? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 17.) Is there a spike recovery for all Laboratory Control Samples? ☒yes ☐no ☐NA
Do all LCS/LCSD spike recoveries meet accepted criteria? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 18.) Are all LCS/LCSD RPDs within acceptable limits? ☒yes ☐no ☐NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Precision

- 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits?

☐yes ☐no ☒NA

If not, are all discrepancies footnoted?

☐yes ☐no ☒NA

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☐yes ☐no ☒NA

Comments:

For sample OA01-240131, the GRO amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background. (J)

Initial Review By: AR

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: Irwin Hodson Building-2808-2838 SE 9th Avenue, Portland

Project Number: 186-19002-07

Date of Review: 3/5/24

Lab. Name: EAS

Lab Batch ID #: 224051

Chain of Custody

- | | | |
|--|---|--|
| 1.) Are all requested analyses reported? | ☒ yes | ☐ no |
| 2.) Were the requested methods used? | ☒ yes | ☐ no |
| 3.) Trip blank submitted? | ☐ yes | ☒ no |
| 4.) Field blank submitted? | ☐ yes | ☒ no |

Timing

- | | | | |
|--|---|-----------------------------|--|
| 5.) Samples extracted within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 6.) Analysis performed within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Quality Assurance/Quality Control

- | | | | |
|--|---|--|--|
| 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) | ☒ yes | ☐ no | |
| 8.) Are all reported values above either MRL or MDL? | ☒ yes | ☐ no | |
| 9.) Are all values between the MDL & PQL tagged as trace? | ☐ yes | ☒ no | ☐ NA |
| 10a.) Are reporting limits raised for other reason besides high analyte conc.? | ☐ yes | ☒ no | |
| 10b.) If so, are they footnoted? | ☐ yes | ☐ no | ☒ NA |
| 11.) Lab method blank completed? | ☒ yes | ☐ no | |
| 12.) Lab, Field, or Trip Blank(s) report detections? | ☐ yes | ☒ no | |
| If yes, indicate blank type, chemical(s) and concentration(s): | | | |
| 13.) For inorganics and metals, is there one method blank for each analyte? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 14.) For VOCs, is there one method blank for each day of analysis? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 15.) For SVOC's, is there one method blank for each extraction batch? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |

Accuracy

- | | | | |
|--|---|-----------------------------|--|
| 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? | ☒ yes | ☐ no | ☐ NA |
| Do all surrogate spike recoveries meet accepted criteria? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 17.) Is there a spike recovery for all Laboratory Control Samples? | ☒ yes | ☐ no | ☐ NA |
| Do all LCS/LCSD spike recoveries meet accepted criteria? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 18.) Are all LCS/LCSD RPDs within acceptable limits? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Precision

- | | | | |
|---|------------------------------|-----------------------------|--|
| 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☐yes ☐no ☒NA

Comments:

For samples CT16 & SG10-5 (Chloroform, 1,2-Dichloroethane, Ethylbenzene), sample CT17 (Benzene), sample SG10-10 (Chloroform), samples SG11-5 & SUB14 (2-Propanol), sample SG11-10 (Chloroform, 1,2-Dichloroethane, Ethylbenzene, 1,1,2-Trichloroethane, GRO), sample SG12-5 (Ethylbenzene), sample SUB13 (Chloroform, 1,2-Dichloroethane), samples SG13-10, SUB16, SUB18 & SUB20 (GRO), sample SG14 (Ethylbenzene, GRO), sample SUB15 (Chloroform, Ethylbenzene, 2-propanol), samples SUB17 & SUB18 (Trichloroethene) and sample SUB21 (1,1,2-Trichloroethane, 2-propanol), the amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background (J)

Initial Review By: AR

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: Irwin Hodson Building-2808-2838 SE 9th Avenue, Portland

Project Number: 186-19002-07

Date of Review: 3/6/24

Lab. Name: Pace

Lab Batch ID #: 24B0253

Chain of Custody

- | | | |
|--|---|--|
| 1.) Are all requested analyses reported? | ☒ yes | ☐ no |
| 2.) Were the requested methods used? | ☒ yes | ☐ no |
| 3.) Trip blank submitted? | ☐ yes | ☒ no |
| 4.) Field blank submitted? | ☐ yes | ☒ no |

Timing

- | | | | |
|--|---|-----------------------------|--|
| 5.) Samples extracted within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 6.) Analysis performed within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Quality Assurance/Quality Control

- | | | | |
|--|---|--|--|
| 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) | ☒ yes | ☐ no | |
| 8.) Are all reported values above either MRL or MDL? | ☒ yes | ☐ no | |
| 9.) Are all values between the MDL & PQL tagged as trace? | ☐ yes | ☐ no | ☒ NA |
| 10a.) Are reporting limits raised for other reason besides high analyte conc.? | ☐ yes | ☒ no | |
| 10b.) If so, are they footnoted? | ☐ yes | ☐ no | ☒ NA |
| 11.) Lab method blank completed? | ☒ yes | ☐ no | |
| 12.) Lab, Field, or Trip Blank(s) report detections? | ☐ yes | ☒ no | |
| If yes, indicate blank type, chemical(s) and concentration(s): | | | |
| 13.) For inorganics and metals, is there one method blank for each analyte? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 14.) For VOCs, is there one method blank for each day of analysis? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 15.) For SVOC's, is there one method blank for each extraction batch? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |

Accuracy

- | | | | |
|--|------------------------------|--|--|
| 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? | ☐ yes | ☒ no | ☐ NA |
| Do all surrogate spike recoveries meet accepted criteria? | ☐ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 17.) Is there a spike recovery for all Laboratory Control Samples? | ☐ yes | ☐ no | ☒ NA |
| Do all LCS/LCSD spike recoveries meet accepted criteria? | ☐ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 18.) Are all LCS/LCSD RPDs within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Precision

- | | | | |
|---|------------------------------|-----------------------------|--|
| 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☐yes ☐no ☒NA

Comments:

Initial Review By: AR

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: Irwin Hodson Building-2808-2838 SE 9th Avenue, Portland

Project Number: 186-19002-07

Date of Review: 6/20/24

Lab. Name: Pace

Lab Batch ID #: 24E1058

Chain of Custody

- 1.) Are all requested analyses reported? ☒yes ☐no
- 2.) Were the requested methods used? ☒yes ☐no
- 3.) Trip blank submitted? ☐yes ☒no
- 4.) Field blank submitted? ☐yes ☒no

Timing

- 5.) Samples extracted within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☐NA
- 6.) Analysis performed within holding times? ☒yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Quality Assurance/Quality Control

- 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) ☒yes ☐no
- 8.) Are all reported values above either MRL or MDL? ☒yes ☐no
- 9.) Are all values between the MDL & PQL tagged as trace? ☐yes ☐no ☒NA
- 10a.) Are reporting limits raised for other reason besides high analyte conc.? ☐yes ☒no
- 10b.) If so, are they footnoted? ☐yes ☐no ☒NA
- 11.) Lab method blank completed? ☒yes ☐no
- 12.) Lab, Field, or Trip Blank(s) report detections? ☐yes ☒no
- If yes, indicate blank type, chemical(s) and concentration(s):
- 13.) For inorganics and metals, is there one method blank for each analyte? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no
- 14.) For VOCs, is there one method blank for each day of analysis? ☒yes ☐no ☐NA
If not, are all discrepancies footnoted? ☐yes ☐no
- 15.) For SVOC's, is there one method blank for each extraction batch? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no

Accuracy

- 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? ☐yes ☒no ☐NA
Do all surrogate spike recoveries meet accepted criteria? ☐yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 17.) Is there a spike recovery for all Laboratory Control Samples? ☐yes ☐no ☒NA
Do all LCS/LCSD spike recoveries meet accepted criteria? ☐yes ☐no
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 18.) Are all LCS/LCSD RPDs within acceptable limits? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA

Precision

- 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? ☐yes ☐no ☒NA
If not, are all discrepancies footnoted? ☐yes ☐no ☒NA
- 21.) Do all RPD calculations for Field Duplicates meet accepted criteria? ☐yes ☐no ☒NA

Comments:

Initial Review By: NB

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: Irwin Hodson Building-2808-2838 SE 9th Avenue, Portland

Project Number: 186-19002-07

Date of Review: 6/20/24

Lab. Name: EAS

Lab Batch ID #: 224179

Chain of Custody

- | | | |
|--|---|--|
| 1.) Are all requested analyses reported? | ☒ yes | ☐ no |
| 2.) Were the requested methods used? | ☒ yes | ☐ no |
| 3.) Trip blank submitted? | ☐ yes | ☒ no |
| 4.) Field blank submitted? | ☐ yes | ☒ no |

Timing

- | | | | |
|--|---|-----------------------------|--|
| 5.) Samples extracted within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 6.) Analysis performed within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Quality Assurance/Quality Control

- | | | | |
|--|---|--|--|
| 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) | ☒ yes | ☐ no | |
| 8.) Are all reported values above either MRL or MDL? | ☒ yes | ☐ no | |
| 9.) Are all values between the MDL & PQL tagged as trace? | ☐ yes | ☒ no | ☐ NA |
| 10a.) Are reporting limits raised for other reason besides high analyte conc.? | ☐ yes | ☒ no | |
| 10b.) If so, are they footnoted? | ☐ yes | ☐ no | ☒ NA |
| 11.) Lab method blank completed? | ☒ yes | ☐ no | |
| 12.) Lab, Field, or Trip Blank(s) report detections? | ☐ yes | ☒ no | |
| If yes, indicate blank type, chemical(s) and concentration(s): | | | |
| 13.) For inorganics and metals, is there one method blank for each analyte? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 14.) For VOCs, is there one method blank for each day of analysis? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 15.) For SVOC's, is there one method blank for each extraction batch? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |

Accuracy

- | | | | |
|--|---|-----------------------------|--|
| 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? | ☒ yes | ☐ no | ☐ NA |
| Do all surrogate spike recoveries meet accepted criteria? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 17.) Is there a spike recovery for all Laboratory Control Samples? | ☒ yes | ☐ no | ☐ NA |
| Do all LCS/LCSD spike recoveries meet accepted criteria? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 18.) Are all LCS/LCSD RPDs within acceptable limits? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Precision

- | | | | |
|---|------------------------------|-----------------------------|--|
| 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☐yes ☐no ☒NA

Comments:

For several analytes the amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background (J)

Initial Review By: NB

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: Irwin Hodson Building-2808-2838 SE 9th Avenue, Portland

Project Number: 186-19002-07

Date of Review: 6/20/24

Lab. Name: EAS

Lab Batch ID #: 224185

Chain of Custody

- | | | |
|--|---|--|
| 1.) Are all requested analyses reported? | ☒ yes | ☐ no |
| 2.) Were the requested methods used? | ☒ yes | ☐ no |
| 3.) Trip blank submitted? | ☐ yes | ☒ no |
| 4.) Field blank submitted? | ☐ yes | ☒ no |

Timing

- | | | | |
|--|---|-----------------------------|--|
| 5.) Samples extracted within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 6.) Analysis performed within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Quality Assurance/Quality Control

- | | | | |
|--|---|--|--|
| 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) | ☒ yes | ☐ no | |
| 8.) Are all reported values above either MRL or MDL? | ☒ yes | ☐ no | |
| 9.) Are all values between the MDL & PQL tagged as trace? | ☐ yes | ☒ no | ☐ NA |
| 10a.) Are reporting limits raised for other reason besides high analyte conc.? | ☐ yes | ☒ no | |
| 10b.) If so, are they footnoted? | ☐ yes | ☐ no | ☒ NA |
| 11.) Lab method blank completed? | ☒ yes | ☐ no | |
| 12.) Lab, Field, or Trip Blank(s) report detections? | ☐ yes | ☒ no | |
| If yes, indicate blank type, chemical(s) and concentration(s): | | | |
| 13.) For inorganics and metals, is there one method blank for each analyte? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 14.) For VOCs, is there one method blank for each day of analysis? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 15.) For SVOC's, is there one method blank for each extraction batch? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |

Accuracy

- | | | | |
|--|---|-----------------------------|--|
| 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? | ☒ yes | ☐ no | ☐ NA |
| Do all surrogate spike recoveries meet accepted criteria? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 17.) Is there a spike recovery for all Laboratory Control Samples? | ☒ yes | ☐ no | ☐ NA |
| Do all LCS/LCSD spike recoveries meet accepted criteria? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 18.) Are all LCS/LCSD RPDs within acceptable limits? | ☒ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Precision

- | | | | |
|---|------------------------------|-----------------------------|--|
| 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? | ☐ yes | ☐ no | ☒ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

21.) Do all RPD calculations for Field Duplicates meet accepted criteria?

☐yes ☐no ☒NA

Comments:

For several analytes the amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background (J)

Initial Review By: NB

Final Review By: _____

Analytical Laboratory Data Validation Check Sheet

Project Name: Irwin Hodson Building-2808-2838 SE 9th Avenue-PortlandProject Number: 186-19002-07Date of Review: 5/17/2024Lab. Name: EASLab Batch ID #: 224175Chain of Custody

- | | | |
|--|------------------------------|-----------------------------|
| 1.) Are all requested analyses reported? | ☐ yes | ☐ no |
| 2.) Were the requested methods used? | ☐ yes | ☐ no |
| 3.) Trip blank submitted? | ☐ yes | ☐ no |
| 4.) Field blank submitted? | ☐ yes | ☐ no |

Timing

- | | | | |
|--|---|-----------------------------|--|
| 5.) Samples extracted within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |
| 6.) Analysis performed within holding times? | ☒ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☒ NA |

Quality Assurance/Quality Control

- | | | | |
|--|------------------------------|-----------------------------|-----------------------------|
| 7.) Are the required reporting limits reported? (MRLs vs MDLs/PQLs) | ☐ yes | ☐ no | |
| 8.) Are all reported values above either MRL or MDL? | ☐ yes | ☐ no | |
| 9.) Are all values between the MDL & PQL tagged as trace? | ☐ yes | ☐ no | ☐ NA |
| 10a.) Are reporting limits raised for other reason besides high analyte conc.? | ☐ yes | ☐ no | |
| 10b.) If so, are they footnoted? | ☐ yes | ☐ no | ☐ NA |
| 11.) Lab method blank completed? | ☐ yes | ☐ no | |
| 12.) Lab, Field, or Trip Blank(s) report detections? | ☐ yes | ☐ no | |
| If yes, indicate blank type, chemical(s) and concentration(s): _____ | | | |

- | | | | |
|---|------------------------------|-----------------------------|-----------------------------|
| 13.) For inorganics and metals, is there one method blank for each analyte? | ☐ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 14.) For VOCs, is there one method blank for each day of analysis? | ☐ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |
| 15.) For SVOC's, is there one method blank for each extraction batch? | ☐ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | |

Accuracy

- | | | | |
|--|------------------------------|-----------------------------|-----------------------------|
| 16.) Is there a surrogate spike recovery for all VOC & SVOC samples? | ☐ yes | ☐ no | ☐ NA |
| Do all surrogate spike recoveries meet accepted criteria? | ☐ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☐ NA |
| 17.) Is there a spike recovery for all Laboratory Control Samples? | ☐ yes | ☐ no | ☐ NA |
| Do all LCS/LCSD spike recoveries meet accepted criteria? | ☐ yes | ☐ no | |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☐ NA |
| 18.) Are all LCS/LCSD RPDs within acceptable limits? | ☐ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☐ NA |

Precision

- | | | | |
|---|------------------------------|-----------------------------|-----------------------------|
| 19.) Are all matrix spike/matrix spike duplicate recoveries within acceptable limits? | ☐ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☐ NA |
| 20.) Are all matrix spike/matrix spike duplicate RPDs within acceptable limits? | ☐ yes | ☐ no | ☐ NA |
| If not, are all discrepancies footnoted? | ☐ yes | ☐ no | ☐ NA |
| 21.) Do all RPD calculations for Field Duplicates meet accepted criteria? | ☐ yes | ☐ no | ☐ NA |

Comments: _____

Initial Review By: LMP

Final Review By: _____

March 5, 2024

Lynn Green
Evren Northwest
40 SE 24th Avenue Unit A
Portland,, OR 97214

Project Location: 263B SE 9th Ave Portland OR
Client Job Number:
Project Number: 1186-19002-07
Laboratory Work Order Number: 24B0253

Enclosed are results of analyses for samples as received by the laboratory on February 2, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karriem G. Marius
Project Manager

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Sample Results	5
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QC Data	10
Miscellaneous Air Analyses	10
B367596	10
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Evren Northwest
40 SE 24th Avenue Unit A
Portland,, OR 97214
ATTN: Lynn Green

REPORT DATE: 3/5/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1186-19002-07

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24B0253

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 263B SE 9th Ave Portland OR

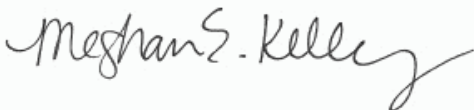
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IA 01	24B0253-01	Indoor air		RAD 130	
IA 02	24B0253-02	Indoor air		RAD 130	
IA 03	24B0253-03	Indoor air		RAD 130	
IA 04	24B0253-04	Indoor air		RAD 130	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

ANALYTICAL RESULTS

Project Location: 263B SE 9th Ave Portland OR

Date Received: 2/2/2024

Field Sample #: IA 01

Sample ID: 24B0253-01

Sample Matrix: Indoor air

Sampled: 1/31/2024 08:09

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 40149

Work Order: 24B0253

RAD 130

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Vinyl Chloride	ND	0.16		ND	0.039	1	2/8/24 16:20	GP	
1,1-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 16:20	GP	
trans-1,2-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 16:20	GP	
cis-1,2-Dichloroethene	ND	0.20		ND	0.060	1	2/8/24 16:20	GP	
Trichloroethene	ND	0.20		ND	0.072	1	2/8/24 16:20	GP	
Tetrachloroethene	8.5	0.20		3.6	0.084	1	2/8/24 16:20	GP	

ANALYTICAL RESULTS

Project Location: 263B SE 9th Ave Portland OR

Date Received: 2/2/2024

Field Sample #: IA 02**Sample ID: 24B0253-02**

Sample Matrix: Indoor air

Sampled: 1/31/2024 08:14

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 40148

Work Order: 24B0253**RAD 130**

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Vinyl Chloride	ND	0.16		ND	0.039	1	2/8/24 16:36	GP	
1,1-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 16:36	GP	
trans-1,2-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 16:36	GP	
cis-1,2-Dichloroethene	ND	0.20		ND	0.060	1	2/8/24 16:36	GP	
Trichloroethene	ND	0.20		ND	0.072	1	2/8/24 16:36	GP	
Tetrachloroethene	6.9	0.20		2.9	0.084	1	2/8/24 16:36	GP	

ANALYTICAL RESULTS

Project Location: 263B SE 9th Ave Portland OR

Date Received: 2/2/2024

Field Sample #: IA 03**Sample ID: 24B0253-03**

Sample Matrix: Indoor air

Sampled: 1/31/2024 07:54

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 40118

Work Order: 24B0253**RAD 130**

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Vinyl Chloride	ND	0.16		ND	0.039	1	2/8/24 16:51	GP	
1,1-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 16:51	GP	
trans-1,2-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 16:51	GP	
cis-1,2-Dichloroethene	ND	0.20		ND	0.060	1	2/8/24 16:51	GP	
Trichloroethene	ND	0.20		ND	0.072	1	2/8/24 16:51	GP	
Tetrachloroethene	1.9	0.20		0.79	0.084	1	2/8/24 16:51	GP	

ANALYTICAL RESULTS

Project Location: 263B SE 9th Ave Portland OR

Date Received: 2/2/2024

Field Sample #: IA 04**Sample ID: 24B0253-04**

Sample Matrix: Indoor air

Sampled: 1/31/2024 07:45

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 40114

Work Order: 24B0253**RAD 130**

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Vinyl Chloride	ND	0.16		ND	0.039	1	2/8/24 17:06	GP	
1,1-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 17:06	GP	
trans-1,2-Dichloroethene	ND	1.0		ND	0.30	1	2/8/24 17:06	GP	
cis-1,2-Dichloroethene	ND	0.20		ND	0.060	1	2/8/24 17:06	GP	
Trichloroethene	ND	0.20		ND	0.072	1	2/8/24 17:06	GP	
Tetrachloroethene	2.5	0.20		1.1	0.085	1	2/8/24 17:06	GP	

Sample Extraction Data

Prep Method:Radiello Analytical Method:RAD 130

Lab Number [Field ID]	Batch	Initial [Cartridge	Final [mL]	Date
24B0253-01 [IA 01]	B367596	1.00	2.00	02/08/24
24B0253-02 [IA 02]	B367596	1.00	2.00	02/08/24
24B0253-03 [IA 03]	B367596	1.00	2.00	02/08/24
24B0253-04 [IA 04]	B367596	1.00	2.00	02/08/24

QUALITY CONTROL

Miscellaneous Air Analyses - Quality Control

Analyte	Total µg		ug/m3		Spike Level	Source	%REC		RPD	
	Results	RL	Results	RL	Total µg	Result	%REC	Limits	RPD	Limit
Flag/Qual										

Batch B367596 - Radiello

Blank (B367596-BLK1)					Prepared & Analyzed: 02/08/24					
Vinyl Chloride	ND	0.16								
1,1-Dichloroethene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
cis-1,2-Dichloroethene	ND	0.20								
Trichloroethene	ND	0.20								
Tetrachloroethene	ND	0.20								

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

No certified Analyses included in this Report

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
------	-------------	--------	---------



Phone: 413-525-2332
Fax: 413-525-6405
www.pacelabs.com

http://www.pacelabs.com

DOC #378 REV3_11232021

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Euren Northwest
Address: Po Box 14400 Portland OR
Phone: 503 452-5561
Project Name: 186-K002-07
Project Location: 283B SE 9th AVE Portland OR
Project Number: 186-19002-07
Project Manager: Lynn Green
Pace Quote Name/Number: 186-19002-07
Invoice Recipient: Euren NW ATTN Leslie Pena-Moffe
Sampled By: Dan Sajko

24B0253
KGM

Analysis Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:
Analysis Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Analysis Delivery
Format: PDF ☒ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

" Hg

Please fill out completely,
sign, date and retain the
yellow copy for your
records

Summa canisters and
flow controllers must be
returned within 15 days of
receipt or rental fees will
apply

For summa canister and
flow controller
information please refer to
Con-Test's Air Media
Agreement

Summa Can
ID Flow
Controller ID

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume						
Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m ³ /min ☐ L/min	Code	☐ Liters ☐ m ³					Summa Can ID	Flow Controller ID
1	IA01	1/03/24 11:00	1/31/24 8:09	40,149	—	IA	—	X	X	X		MX545	—
2	IA02	1/03/24 11:00	1/31/24 8:14	40,148	—	IA	—	X	X	X		MX546	—
3	IA03	1/03/24 11:10	1/31/24 7:51	40,118	—	IA	—	X	X	X		MX541	—
4	IA04	1/03/24 11:11	1/31/24 7:45	40,114	—	IA	—	X	X	X		MX542	—

Comments: SAMPLER TYPE = Radiello

Sample -05 is Unused media, no analysis needed 2/5 KGM

Please use the following codes to indicate possible sample
concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:

SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other

Relinquished by: (signature)	Date/Time: <u>1/31/24 12:00</u>	Detection Limit Requirement	Special Requirements		
Received by: (signature)	Date/Time: <u>2-2-24 0958</u>	☐ MA	☐ MA MCP Required		
Relinquished by: (signature)	Date/Time:	☐	☐ MCP Certification Form Required		
Received by: (signature)	Date/Time:	☐	☐ CT RCP Required		
Relinquished by: (signature)	Date/Time:	☐	☐ RCP Certification Form Required		
Received by: (signature)	Date/Time:	☐	☐ Other	NELAC and AIHA-LAP, LLC Accredited	
Relinquished by: (signature)	Date/Time:	Project Entity			
Received by: (signature)	Date/Time:	☐ Government	☐ Municipality	☐ MWRA	☐ WRTA
		☐ Federal	☐ 21 J	☐ School	
		☐ City	☐ Brownfield	☐ MBTA	
		Other		☐ Chromatogram	☐ Soxhlet
				☐ AIHA-LAP, LLC	☐ Non Soxhlet

SHOPRUNNER by FedEx.

READY TO SHOP AGAIN? SAVE ON YOUR NEXT ORDER.

SHOP NOW

DELIVERED

Friday

2/2/24 at 9:58 AM

Signed for by: K.COUCHER

↓ Obtain proof of delivery

DELIVERY STATUS

Delivered ✓

TRACKING ID

775026952570 ✎ ☆

FROM

Portland, OR US

Label Created

1/31/24 5:38 PM

WE HAVE YOUR PACKAGE

PORTLAND, OR

2/1/24 1:49 PM

ON THE WAY

WINDSOR LOCKS, CT

2/2/24 7:39 AM

OUT FOR DELIVERY

WINDSOR LOCKS, CT

2/2/24 8:02 AM

DELIVERED

EAST LONGMEADOW, MA US

Delivered

2/2/24 at 9:58 AM

↓ View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

SUBMIT

MORE OPTIONS

	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Evren Northwest
 Project 186-19002-07
 MCP/RCP Required N/A
 Deliverable Package Requirement N/A
 Location 243B SE 9th Ave Portland
 PWSID# (When Applicable) N/A
 Arrival Method:
 Courier ☐ Fed Ex ☒ Walk In ☐ Other ☐
 Received By / Date / Time AAM / 2-2-24 / 0953
 Back-Sheet By / Date / Time AAM / 2-2-24 / 1510
 Temperature Method Temp. Gun # 6
 Temp < 6° C Actual Temperature 14.2° C
 Rush Samples: Yes / No Notify
 Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

arrived w/ unused media -
will be sample #5

Login Sample Receipt Checklist – (Rejection Criteria Listing
 – Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client – True or False

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☐	☒
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒
All Samples Proper pH:	<u>N/A</u> ☐	☐

Additional Container Notes

Note: West Virginia requires all samples to have their
 temperature taken. Note any outliers.

Sample	Soils Jars				Ambers				Plastics								VOA Vials					Other / Fill in				
	(Circle Amb/Clear)				1 Liter				100mL				500mL				250mL				Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	
1	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc					
2																										
3																										
4																										
5																										
6																										
7																										
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20																										



Thursday, February 22, 2024

Sample Delivery Group (SDG) 224049
EAS Project Number: 17695

Lynn Green
Evren Northwest Inc.
40 SE 24th Avenue, Suite A
Portland, OR 97214

Lynn,

Enclosed is the analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following Project.

Client Project Name: Indoor Air Sampling
PO Number: 186-19002-07
Client Project Number: 186-19002-07
Sample Event Date: 1/11/2024

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely,

Steven D. Hoyt Ph.D.
Laboratory Director

SDH/LIMS

Analytical Report

Project Name:

Indoor Air Sampling

EAS SDG Number: **224049**

Client Project Manager: Lynn Green

Prepared For:

Evren Northwest Inc.
40 SE 24th Avenue, Suite A
Portland

OR 97214

Project Number: 17695

Sample Event Date: 1/11/2024

Received Date: 2/7/2024

Report Date: 2/20/2024

Project Number: 186-19002-07

PO Number: 186-19002-07

This is the Laboratory Report for the samples in the indicated Sample Delivery Group (SDG). Each sample received in the group is assigned a Laboratory ID number. The combination of the SDG number and the Lab ID number is a unique identifier for the sample.

This Report Contains:

Laboratory Work Order
Project Sample Media
Laboratory Case Narrative and Chain of Custody
Method Description (when applicable)
Quality Control Reports
Analytical Reports

NELAC Certification: Florida E871125

173 Cross Street, San Luis Obispo, CA 93401 (805) 781-3585

Laboratory Work Order

SDG Number: 224049

Project Number: 17695

Client: Lynn Green

Received: 2/7/2024

Evren Northwest Inc.

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
IA01-240131	224049 1	EPA TO-15 Special and GRO	1/11/2024
IA01-240131	224049 1	EPA TO-15 SIM Special	1/11/2024
IA02-240131	224049 2	EPA TO-15 Special and GRO	1/11/2024
IA02-240131	224049 2	EPA TO-15 SIM Special	1/11/2024
IA03-240131	224049 3	EPA TO-15 Special and GRO	1/11/2024
IA03-240131	224049 3	EPA TO-15 SIM Special	1/11/2024
IA04-240131	224049 4	EPA TO-15 Special and GRO	1/11/2024
IA04-240131	224049 4	EPA TO-15 SIM Special	1/11/2024
OA01-240131	224049 5	EPA TO-15 Special and GRO	1/11/2024
OA01-240131	224049 5	EPA TO-15 SIM Special	1/11/2024

Project Sample Media

SDG Number: 224049

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pressurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample	Batch	Pressure, torr		Can
			Media		Initial	Final	Factor
224049	1	IA01-240131	749		503	503	1.00
224049	2	IA02-240131	761		396	553	1.40
224049	3	IA03-240131	857		461	461	1.00
224049	4	IA04-240131	613		512	512	1.00
224049	5	OA01-240131	660		779	779	1.00

Laboratory Case Narrative

EAS SDG Number: 224049

Project Number: 17695

Client: Evren Northwest Inc.

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 2/19/2024

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

Analytical Service, Inc.

BILLING INFORMATION:

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

Analytical Service, Inc.

Project Number		186-19002-07		Project Name		Indoor Air Sampling		Quote		7695		Requested TAT		Std / 10 day			
REPORT TO:																	
Attention		Lynn Green															
Company		Even Northwest															
Address		P.O. Box 14488															
City, State, Zip		Portland, OR 97293															
Phone/Fax		(503) 482-5561															
e-mail		lynn@even-nw.com															
Sample Description		Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number	Matrix	Initial Pressure	Final Pressure	Laboratory ID	SDG 224049					
TA03-240131		01-11-24	9:25	01-31-24	8:40	894	50	R	28	12	03	X	TCE, PCE, GAO	X	Benzene, Ethylbenzene, Carbon Tetrahydride, Methylene Chloride	X	Comments
		"	"	"	"	845	"	"	"	"	"						
		"	"	"	"	885	"	"	"	"	"						
		"	"	"	"	900	"	"	"	"	"						
TA04-240131		01-11-24	9:02	01-31-24	7:45	6130	52	I	30	11	04	X		X		X	
		"	"	"	"	759	"	"	"	"	"						
		"	"	"	"	729	"	"	"	"	"						
		"	"	"	"	773	"	"	"	"	"						
Comments																	
BILLING INFORMATION:																	
ATTENTION		Leslie Moffatt - Penar				SAMPLED BY		Jordan Morris		Date/Time		01-31-24 / 10:00					
Company		Even Northwest										COC Number					
Address		P.O. Box 14488										Cooler Temp					
City, State, Zip		Portland, OR 97293										Airbill					
Purchase Order		186-19002-07															
										RECEIVED FOR LAB		2/7/2024					
										f B J H		01:00					

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

Analytical Service, Inc.

100

Quality Control Report

EAS SDG Number: 224049

Project Number: 17695

QC Narrative

Samples were analyzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different than the referenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater than ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: LABQC

Laboratory ID: B02124

File Name: B02124D.D

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 021224-MSB

Date Sampled:

Date Analyzed: 02/12/24

Can Dilution Factor: 1.00

Air Volume: 1000 ml

Time:

Time: 15:07

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	ND	0.015	0.049	ND	
107-06-2	1,2-Dichloroethane	0.003	0.010	ND	0.012	0.041	ND	
71-43-2	Benzene	0.050	0.100	ND	0.160	0.320	ND	
56-23-5	Carbon tetrachloride	0.003	0.010	ND	0.019	0.063	ND	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	ND	0.021	0.034	ND	
100-41-4	Ethylbenzene	0.003	0.010	ND	0.013	0.043	ND	
91-20-3	Naphthalene	0.005	0.009	ND	0.026	0.047	ND	
Surrogate Recovery					% Rec.	QC	Limits	Flag
2037-26-5	Toluene-d8				93	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: LABQC

Laboratory ID: B02144

File Name: B02144E.D

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 021424-MSB

Date Sampled:

Date Analyzed: 02/14/24

Can Dilution Factor: 1.00

Air Volume: 1000 ml

Time:

Time: 14:07

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	ND	0.015	0.049	ND	
107-06-2	1,2-Dichloroethane	0.003	0.010	ND	0.012	0.041	ND	
71-43-2	Benzene	0.050	0.100	ND	0.160	0.320	ND	
56-23-5	Carbon tetrachloride	0.003	0.010	ND	0.019	0.063	ND	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	ND	0.021	0.034	ND	
100-41-4	Ethylbenzene	0.003	0.010	ND	0.013	0.043	ND	
91-20-3	Naphthalene	0.005	0.009	ND	0.026	0.047	ND	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			95	70	130		

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B02204

File Name: B02204C.D

Description: METHOD BLANK

Canister:

QC_Batch: 022024-MA1

Date Sampled:

Date Analyzed: 02/20/24

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time:

Time: 11:10

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 SIM Volatile Organic Compounds by GC/MS

QC_Batch: 021224-MB1

Date: 02/12/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery		Recovery		LCL	UCL	Duplicate	Limit	
		%	Flag	%	Flag	%	%	%	%	
75-01-4	Vinyl chloride	91		87		70	130	5	25	
75-35-4	1,1-Dichloroethene	119		108		70	130	10	25	
75-09-2	Dichloromethane	98		92		70	130	6	25	
75-34-3	1,1-Dichloroethane	103		97		70	130	6	25	
67-66-3	Chloroform	122		113		70	130	7	25	
71-55-6	1,1,1-Trichloroethane	128		121		70	130	5	25	
107-06-2	1,2-Dichloroethane	111		107		70	130	4	25	
71-43-2	Benzene	94		91		70	130	3	25	
79-01-6	Trichloroethene	110		103		70	130	7	25	
108-88-3	Toluene	99		93		70	130	6	25	
127-18-4	Tetrachloroethene	86		84		70	130	3	25	
100-41-4	Ethylbenzene	101		97		70	130	5	25	
1330-20-7	m,p-Xylenes	103		98		70	130	6	25	
95-47-6	o-Xylene	98		92		70	130	6	25	
108-67-8	1,3,5-Trimethylbenzene	93		87		70	130	7	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 021424-MA1

Date: 2/14/2024

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	127		121		70	130	5	25	
75-35-4	1,1-Dichloroethene	128		119		70	130	7	25	
75-09-2	Dichloromethane	125		128		70	130	2	25	
75-34-3	1,1-Dichloroethane	129		117		70	130	9	25	
67-66-3	Chloroform	125		125		70	130	0	25	
71-55-6	1,1,1-Trichloroethane	108		121		70	130	11	25	
107-06-2	1,2-Dichloroethane	108		120		70	130	10	25	
71-43-2	Benzene	106		112		70	130	6	25	
56-23-5	Carbon tetrachloride	101		107		70	130	6	25	
79-01-6	Trichloroethene	97		110		70	130	12	25	
108-88-3	Toluene	101		113		70	130	10	25	
106-93-4	1,2-Dibromoethane	90		108		70	130	18	25	
127-18-4	Tetrachloroethene	81		95		70	130	16	25	
100-41-4	Ethylbenzene	97		110		70	130	12	25	
1330-20-7	m,p-Xylenes	98		108		70	130	10	25	
95-47-6	o-Xylene	96		108		70	130	12	25	
108-67-8	1,3,5-Trimethylbenzene	103		113		70	130	9	25	
95-63-6	1,2,4-Trimethylbenzene	99		104		70	130	5	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 022024-MA1

Date: 2/20/2024

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	101		111		70	130	10	25	
75-35-4	1,1-Dichloroethene	101		109		70	130	7	25	
75-09-2	Dichloromethane	93		99		70	130	6	25	
75-34-3	1,1-Dichloroethane	98		105		70	130	6	25	
67-66-3	Chloroform	98		107		70	130	8	25	
71-55-6	1,1,1-Trichloroethane	115		121		70	130	5	25	
107-06-2	1,2-Dichloroethane	114		115		70	130	1	25	
71-43-2	Benzene	95		98		70	130	3	25	
56-23-5	Carbon tetrachloride	126		119		70	130	6	25	
79-01-6	Trichloroethene	89		93		70	130	4	25	
108-88-3	Toluene	98		98		70	130	0	25	
106-93-4	1,2-Dibromoethane	89		97		70	130	9	25	
127-18-4	Tetrachloroethene	83		96		70	130	14	25	
100-41-4	Ethylbenzene	100		110		70	130	10	25	
1330-20-7	m,p-Xylenes	103		114		70	130	11	25	
95-47-6	o-Xylene	105		117		70	130	10	25	
108-67-8	1,3,5-Trimethylbenzene	116		99		70	130	16	25	
95-63-6	1,2,4-Trimethylbenzene	115		126		70	130	9	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

Analytical Reports

EAS SDG Number: 224049

Project Number: 17695

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less than the RL. See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater than one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: $UG/M3 = PPBV \times MW/24.46$ where 24.46 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224049

Laboratory ID: 01

File Name: 2404901A.D

Date Sampled: 01/11/24 Time: 8:30

Description: IA01-240131

Date Analyzed: 02/12/24 Time: 19:35

Can/Tube#: 749

Can Dilution Factor: 1.00

QC_Batch: 021224-MSB

Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.058	0.015	0.049	0.286	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.030	0.012	0.041	0.121	
71-43-2	Benzene	0.050	0.100	0.561	0.160	0.320	1.794	
56-23-5	Carbon tetrachloride	0.003	0.010	0.137	0.019	0.063	0.865	
79-01-6	Trichloroethene	0.003	0.005	0.013	0.016	0.027	0.069	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	0.284	0.021	0.034	1.927	
100-41-4	Ethylbenzene	0.003	0.010	0.666	0.013	0.043	2.898	
91-20-3	Naphthalene	0.005	0.009	0.047	0.026	0.047	0.245	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8				103	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH
Analytical Method: TO-15

SDG: 224049
Laboratory ID: 01

File Name: 2404901A.D
Description: IA01-240131
Canister: 749
QC_Batch: 022024-MA1

Date Sampled: 01/11/24
Date Analyzed: 02/20/24
Can Dilution Factor: 1.00
Air Volume: 300 ml

Time: 08:30
Time: 11:52

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	112.91	67.76	203.28	934.21	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224049

Laboratory ID: 02

File Name: 2404902A.D
Description: IA02-240131
Can/Tube#: 761
QC_Batch: 021224-MSB

Date Sampled: 01/11/24 Time: 8:47
Date Analyzed: 02/12/24 Time: 20:18
Can Dilution Factor: 1.00
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.050	0.015	0.049	0.244	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.020	0.012	0.041	0.083	
71-43-2	Benzene	0.050	0.100	0.531	0.160	0.320	1.697	
56-23-5	Carbon tetrachloride	0.003	0.010	0.128	0.019	0.063	0.804	
79-01-6	Trichloroethene	0.003	0.005	0.009	0.016	0.027	0.047	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	0.230	0.021	0.034	1.562	
100-41-4	Ethylbenzene	0.003	0.010	0.777	0.013	0.043	3.379	
91-20-3	Naphthalene	0.005	0.009	0.046	0.026	0.047	0.242	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			104	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224049

Analytical Method:

TO-15

Laboratory ID:

02

File Name: 2404902A.D

Date Sampled: 01/11/24

Time: 08:47

Description: IA02-240131

Date Analyzed: 02/20/24

Time: 12:33

Canister: 761

Can Dilution Factor: 1.00

QC_Batch: 022024-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	225.79	67.76	203.28	1,779.44	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224049

Laboratory ID: 03

File Name: 2404903A.D

Description: IA03-240131

Can/Tube#: 857

QC_Batch: 021424-MSB

Date Sampled: 01/11/24

Time: 9:25

Date Analyzed: 02/14/24

Time: 14:53

Can Dilution Factor: 1.00

Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.119	0.015	0.049	0.582	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.037	0.012	0.041	0.151	
71-43-2	Benzene	0.050	0.100	0.378	0.160	0.320	1.210	
56-23-5	Carbon tetrachloride	0.003	0.010	0.094	0.019	0.063	0.592	
79-01-6	Trichloroethene	0.003	0.005	0.004	0.016	0.027	0.023	J
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	0.064	0.021	0.034	0.437	
100-41-4	Ethylbenzene	0.003	0.010	2.978	0.013	0.043	12.951	
91-20-3	Naphthalene	0.005	0.009	0.036	0.026	0.047	0.189	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			109	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224049

Analytical Method:

TO-15

Laboratory ID:

03

File Name: 2404903A.D

Date Sampled: 01/11/24

Time: 09:25

Description: IA03-240131

Date Analyzed: 02/20/24

Time: 13:11

Canister: 857

Can Dilution Factor: 1.00

QC_Batch: 022024-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	57.28	67.76	203.28	510.05	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224049
Laboratory ID: 04

File Name: 2404904A.D
Description: IA04-240131
Can/Tube#: 613
QC_Batch: 021424-MSB

Date Sampled: 01/11/24 Time: 9:02
Date Analyzed: 02/14/24 Time: 15:40
Can Dilution Factor: 1.00
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.050	0.015	0.049	0.245	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.027	0.012	0.041	0.111	
71-43-2	Benzene	0.050	0.100	0.533	0.160	0.320	1.703	
56-23-5	Carbon tetrachloride	0.003	0.010	0.129	0.019	0.063	0.813	
79-01-6	Trichloroethene	0.003	0.005	0.016	0.016	0.027	0.084	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	0.056	0.021	0.034	0.380	
100-41-4	Ethylbenzene	0.003	0.010	4.510	0.013	0.043	19.615	
91-20-3	Naphthalene	0.005	0.009	0.087	0.026	0.047	0.458	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			99	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224049

Laboratory ID: 04

File Name: 2404904A.D

Date Sampled: 01/11/24

Time: 09:02

Description: IA04-240131

Date Analyzed: 02/20/24

Time: 13:49

Canister: 613

Can Dilution Factor: 1.00

QC_Batch: 022024-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	62.60	67.76	203.28	551.14	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224049

Laboratory ID: 05

File Name: 2404905A.D

Description: OA01-240131

Can/Tube#: 660

QC_Batch: 021424-MSB

Date Sampled: 1/11/2024

Time: 9:46

Date Analyzed: 2/14/2024

Time: 16:32

Can Dilution Factor: 1.00

Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.071	0.015	0.049	0.349	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.047	0.012	0.041	0.189	
71-43-2	Benzene	0.050	0.100	0.666	0.160	0.320	2.130	
56-23-5	Carbon tetrachloride	0.003	0.010	0.142	0.019	0.063	0.894	
79-01-6	Trichloroethene	0.003	0.005	0.005	0.016	0.027	0.027	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	0.008	0.021	0.034	0.053	
100-41-4	Ethylbenzene	0.003	0.010	0.027	0.013	0.043	0.117	
91-20-3	Naphthalene	0.005	0.009	0.044	0.026	0.047	0.229	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			108	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224049

Analytical Method:

TO-15

Laboratory ID:

05

File Name: 2404905A.D

Date Sampled: 01/11/24

Time: 09:46

Description: OA01-240131

Date Analyzed: 02/20/24

Time: 14:39

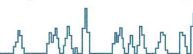
Canister: 660

Can Dilution Factor: 1.00

QC_Batch: 022024-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	30.53	67.76	203.28	211.03	J



Monday, March 4, 2024

Sample Delivery Group (SDG) 224051
EAS Project Number: 17695

Lynn Green
Evren Northwest Inc.
40 SE 24th Avenue, Suite A
Portland, OR 97214

Lynn,

Enclosed is the analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following Project.

Client Project Name: 186-19002-07
PO Number: 186-19002-07
Client Project Number: 186-19002-07
Sample Event Date: 1/31,2/1/2024

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely,

Steven D. Hoyt Ph.D.
Laboratory Director

SDH/LIMS

Analytical Report

Project Name:

186-19002-07

EAS SDG Number: 224051

Client Project Manager: Lynn Green

Prepared For:

Evren Northwest Inc.

40 SE 24th Avenue, Suite A

Portland

OR 97214

Project Number: 17695

Sample Event Date: 1/31,2/1/2024

Received Date: 2/8/2024

Report Date: 2/29/2024

Project Number: 186-19002-07

PO Number: 186-19002-07

This is the Laboratory Report for the samples in the indicated Sample Delivery Group (SDG). Each sample received in the group is assigned a Laboratory ID number. The combination of the SDG number and the Lab ID number is a unique identifier for the sample.

This Report Contains:

Laboratory Work Order

Project Sample Media

Laboratory Case Narrative and Chain of Custody

Method Description (when applicable)

Quality Control Reports

Analytical Reports

NELAC Certification: Florida E871125

173 Cross Street, San Luis Obispo, CA 93401 (805) 781-3585

Laboratory Work Order

SDG Number: 224051

Project Number: 17695

Client: Lynn Green

Received: 2/8/2024

Evren Northwest Inc.

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
CT16-240131	224051 1	EPA TO-15 Special and GRO	1/31/2024
CT17-240201	224051 2	EPA TO-15 Special and GRO	2/1/2024
SG10-240201-5	224051 3	EPA TO-15 Special and GRO	2/1/2024
SG10-240201-10	224051 4	EPA TO-15 Special and GRO	2/1/2024
SG11-240131-5	224051 5	EPA TO-15 Special and GRO	1/31/2024
SG11-240131-10	224051 6	EPA TO-15 Special and GRO	1/31/2024
SG12-240131-5	224051 7	EPA TO-15 Special and GRO	1/31/2024
SG12-240131-10	224051 8	EPA TO-15 Special and GRO	1/31/2024
SUB13--240201	224051 9	EPA TO-15 Special and GRO	2/1/2024
SG13-240201-5	224051 10	EPA TO-15 Special and GRO	2/1/2024
SG13-240201-10	224051 11	EPA TO-15 Special and GRO	2/1/2024
SUB14-240201	224051 12	EPA TO-15 Special and GRO	2/1/2024
SG14-240131	224051 13	EPA TO-15 Special and GRO	1/31/2024
SUB15-240131	224051 14	EPA TO-15 Special and GRO	1/31/2024
SUB16-240131	224051 15	EPA TO-15 Special and GRO	1/31/2024
SUB17-240131	224051 16	EPA TO-15 Special and GRO	1/31/2024
SUB18-240131	224051 17	EPA TO-15 Special and GRO	1/31/2024
SUB19-240131	224051 18	EPA TO-15 Special and GRO	1/31/2024
SUB20-240131	224051 19	EPA TO-15 Special and GRO	1/31/2024
SUB21-240131	224051 20	EPA TO-15 Special and GRO	2/1/2024
SUB22-240131	224051 21	EPA TO-15 Special and GRO	1/31/2024
SSD01-VENT-240201	224051 22	EPA TO-15 TCE ONLY	2/1/2024
SSD02-VENT-240201	224051 23	EPA TO-15 TCE ONLY	2/1/2024

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
CT17-240131	224051 24	HOLD	2/1/2024

Project Sample Media

SDG Number: 224051

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pressurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr Initial	Final	Can Factor
224051	1	CT16-240131	376		667	667	1.00
224051	2	CT17-240201	303		707	707	1.00
224051	3	SG10-240201-5	327		634	634	1.00
224051	4	SG10-240201-10	377		660	660	1.00
224051	5	SG11-240131-5	332		597	597	1.00
224051	6	SG11-240131-10	338		666	666	1.00
224051	7	SG12-240131-5	343		696	696	1.00
224051	8	SG12-240131-10	358		764	794	1.04
224051	9	SUB13--240201	394		706	706	1.00
224051	10	SG13-240201-5	320		646	646	1.00
224051	11	SG13-240201-10	365		687	687	1.00
224051	12	SUB14-240201	345		622	622	1.00
224051	13	SG14-240131	369		630	630	1.00
224051	14	SUB15-240131	378		654	654	1.00
224051	15	SUB16-240131	359		616	616	1.00
224051	16	SUB17-240131	368		632	632	1.00
224051	17	SUB18-240131	310		697	697	1.00
224051	18	SUB19-240131	317		639	639	1.00
224051	19	SUB20-240131	344		652	652	1.00
224051	20	SUB21-240131	383		640	640	1.00
224051	21	SUB22-240131	316		665	665	1.00
224051	22	SSD01-VENT-240201	933		659	659	1.00
224051	23	SSD02-VENT-240201	388		728	728	1.00
224051	24	CT17-240131	367		627	627	1.00

Laboratory Case Narrative

EAS SDG Number: 224051

Project Number: 17695

Client: Evren Northwest Inc.

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytical Report header, and have been modified as described in the EAS Quality Manual.

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 2/29/2024

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

Analytical Service, Inc.

Project Number 186-19002-07		Project Name		Quote 17695	Requested TAT 9/19 (10-day)						
REPORT TO:											
Attention Lynn Green		Matrix A - Ambient Air		Analytical Tests CDB, EDC TCF, PCB, G20 Benzene, Ethylbenzene, Naphthalene Carbon Tetrachloride, Chloroform IPA Comments							
Company Even Northwest		Matrix SG - Soil Gas									
Address P.O. Box 14488		Matrix S - Source									
City, State, Zip Portland, OR 97293		Matrix I - Indoor Air									
Phone/Fax (503) 452-5561											
e-mail lynna@even-nw.com		SDG 224051									
Sample Description	Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg. Number	Matrix	Initial Pressure	Final Pressure	Laboratory ID	
CT16-240131	01-31-24	11:56	01-31-24	12:08	376	2589	SG	29	5	01	X
CT17-240201	02-01-24	8:39	02-01-24	9:17	303	2645	SG	130	5	02	X
SG10-240201-5	02-01-24	9:10	02-01-24	9:26	327	2586	SG	28	5	03	X
SG10-240201-10	02-01-24	8:14	02-01-24	8:47	377	2545	SG	27	5	04	X
SG11-240131-5	01-31-24	9:39	01-31-24	10:05	332	2526	SG	28	5	05	X
SG11-240131-10	01-31-24	9:56	01-31-24	10:32	338	2628	SG	30	5	06	X
SG12-240131-5	01-31-24	13:42	01-31-24	14:25	343	2602	SG	30	5	07	X
SG12-240131-10	01-31-24	13:09	01-31-24	13:38	358	2512	SG	30	5	08	X
Comments											
BILLING INFORMATION:											
ATTENTION Leslie Moffat-Pena		SAMPLED BY Jordan Morris		Date/Time 02-02-24/10:00		COC Number					
Company Even Northwest						Cooler Temp					
Address P.O. Box 14488						Airbill					
City, State, Zip Portland, OR 97293		RECEIVED FOR LAB									
Purchase Order 186-19002-07		JPM		2/8/2024							
				2/12/20							

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

Project Number 186-19002-07							Project Name			Quote		Requested TAT									
REPORT TO:																					
Attention		LYNN GREEN					Matrix					Analytical Tests			Comments						
Company		EVREN NORTHWEST					A - Ambient Air					TCE, PCE, GAO, EDB, EDL									
Address		P.O. BOX 14488					SG - Soil Gas					Benzene, Ethylbenzene, Naphthalene Carbon tetrachloride IPA (LEAK CHECK)									
City, State, Zip		PORTLAND, OR, 97214					S - Source														
Phone/Fax		(503) 452-5561					I - Indoor Air														
e-mail		lynn@evren-nw.com					SDG 224051														
Sample Description		Sample Date		Start Time		Stop Date		Stop Time		Canister Number		Flow Reg Number		Matrix		Initial Pressure		Final Pressure		Laboratory ID	
SUB13-240201		2/1/24		7:38		2/1/24		8:16		2522		2522		SG		28		5		09	
SUB13-240201-5		2/1/24		7:31		2/1/24		8:05		320		2505		SG		29		5		10	
SUB13-240201-10		2/1/24		8:08		2/1/24		8:37		365		2531		SG		28		5		11	
SUB14-240201		2/1/24		8:22		2/1/24		8:51		345		2617		SG		27		5		12	
SUB14-240201-1		1/31/24		11:34		1/31/24		12:10		369		2588		SG		30		10		13	
SUB15-240201		1/31/24		10:05		1/31/24		10:29		378		2575		SG		27		3		14	
SUB16-240201		1/31/24		9:34		1/31/24		10:26		359		2540		SG		30		5		15	
SUB17-240201		1/31/24		10:41		1/31/24		11:14		368		2523		SG		27		5		16	
Comments																					
BILLING INFORMATION:							SAMPLED BY			Date/Time											
ATTENTION		LESLEYE PENNA-MOFFAT											COC Number								
Company		SAME AS ABOVE											Cooler Temp								
Address		"											Airbill								
City, State, Zip		"																			
Purchase Order		186-19002-07																			
							RECEIVED FOR LAB			2/8/2024											

ENVIRONMENTAL

Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

CHAIN OF CUSTODY RECORD

Project Number 186-19002-07		Project Name		Quote 17695	Requested TAT Std (10-day)	
REPORT TO:						
Attention	Lynn Green					
Company	Euren Northwest					
Address	P.O. Box 14488					
City, State, Zip	Portland, OR 97293					
Phone/Fax	(503) 452-5561					
e-mail	lynn@euren-nw.com					
Sample Description	Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number
SUB18-240131	01-31-24	12:03	01-31-24	12:45	310	2639
SUB19-240131	01-31-24	13:17	01-31-24	13:46	317	2643
SUB20-240131	01-31-24	13:20	01-31-24	13:27	344	2664
SUB21-240201	02-01-24	9:44	02-01-24	10:12	383	2625
SUB22-240131	01-31-24	11:28	01-31-24	11:58	316	2630
SUB23-240201	02-01-24	10:12	02-01-24	11:30	933	2661
SUB24-240201	02-01-24	10:14	02-01-24	10:52	388	2660
CT17-240131	01-31-24	9:50	01-31-24	10:16	367	2644
Comments						
Matrix						
A - Ambient Air						
SG - Soil Gas						
S - Source						
I - Indoor Air						
SDG 224051						
Analytical Tests						
TCE, PCE, GLO						
EDB, EDC						
1,1,2 Trichloroethane						
Benzene, Ethylbenzene						
Naphthalene						
Carbon Tetrachloride						
Chloroform						
IPA						
Comments						
SUR18-240131						
TCE only						
TCE only						
Held						
BILLING INFORMATION:						
SAMPLED BY						
Date/Time						
ATTENTION						
Company						
Address						
City, State, Zip						
Purchase Order						
RECEIVED FOR LAB						
Date/Time						
COC Number						
Cooler Temp						
Airbill						

2/8/2024
2:17:00

Quality Control Report

EAS SDG Number: 224051

Project Number: 17695

QC Narrative

Samples were analyzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different than the referenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater than ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B02164

File Name: B02164E.D

Description: METHOD BLANK

Canister:

QC_Batch: 021624-MA1

Date Sampled:

Date Analyzed: 2/16/24

Can Dilution Factor: 1.00

Air Volume: 300.00 ml

Time:

Time: 13:40

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			88	70 130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B02164

File Name: B02164E.D

Description: METHOD BLANK

Canister:

QC_Batch: 021624-MA1

Date Sampled:

Date Analyzed: 2/16/24

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time:

Time: 13:40

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B02164

File Name: B02214E.D

Description: METHOD BLANK

Canister:

QC_Batch: 022124-MA1

Date Sampled:

Date Analyzed: 2/21/24

Can Dilution Factor: 1.00

Air Volume: 300.00 ml

Time:

Time: 12:47

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	89	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B02214

File Name: B02214E.D

Description: METHOD BLANK

Canister:

QC_Batch: 022124-MA1

Date Sampled:

Date Analyzed: 2/21/24

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time:

Time: 12:47

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B02264

File Name: B02264D.D

Description: METHOD BLANK

Canister:

QC_Batch: 022624-MA1

Date Sampled:

Date Analyzed: 2/26/24

Can Dilution Factor: 1.00

Air Volume: 300.00 ml

Time:

Time: 13:34

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	90	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B02264

File Name: B02264D.D

Description: METHOD BLANK

Canister:

QC_Batch: 022624-MA1

Date Sampled:

Date Analyzed: 2/26/24

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time:

Time: 13:34

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 0215624-MA1

Date: 2/16/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	126		123		70	130	2	25	
75-35-4	1,1-Dichloroethene	117		118		70	130	1	25	
75-09-2	Dichloromethane	108		110		70	130	2	25	
75-34-3	1,1-Dichloroethane	111		111		70	130	0	25	
67-66-3	Chloroform	107		108		70	130	1	25	
71-55-6	1,1,1-Trichloroethane	114		120		70	130	6	25	
107-06-2	1,2-Dichloroethane	116		121		70	130	4	25	
71-43-2	Benzene	109		109		70	130	0	25	
56-23-5	Carbon tetrachloride	112		119		70	130	6	25	
79-01-6	Trichloroethene	97		103		70	130	6	25	
108-88-3	Toluene	100		104		70	130	4	25	
106-93-4	1,2-Dibromoethane	93		105		70	130	12	25	
127-18-4	Tetrachloroethene	87		94		70	130	8	25	
100-41-4	Ethylbenzene	99		102		70	130	2	25	
1330-20-7	m,p-Xylenes	99		104		70	130	5	25	
95-47-6	o-Xylene	100		103		70	130	3	25	
108-67-8	1,3,5-Trimethylbenzene	102		104		70	130	2	25	
95-63-6	1,2,4-Trimethylbenzene	102		104		70	130	2	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 022124-MA1

Date: 2/21/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	99		98		70	130	1	25	
75-35-4	1,1-Dichloroethene	98		98		70	130	0	25	
75-09-2	Dichloromethane	94		89		70	130	6	25	
75-34-3	1,1-Dichloroethane	97		95		70	130	2	25	
67-66-3	Chloroform	96		94		70	130	2	25	
71-55-6	1,1,1-Trichloroethane	114		115		70	130	0	25	
107-06-2	1,2-Dichloroethane	113		109		70	130	4	25	
71-43-2	Benzene	95		93		70	130	3	25	
56-23-5	Carbon tetrachloride	121		119		70	130	2	25	
79-01-6	Trichloroethene	91		91		70	130	0	25	
108-88-3	Toluene	98		97		70	130	1	25	
106-93-4	1,2-Dibromoethane	99		99		70	130	0	25	
127-18-4	Tetrachloroethene	90		91		70	130	1	25	
100-41-4	Ethylbenzene	103		97		70	130	5	25	
1330-20-7	m,p-Xylenes	105		100		70	130	5	25	
95-47-6	o-Xylene	107		101		70	130	6	25	
108-67-8	1,3,5-Trimethylbenzene	121		115		70	130	5	25	
95-63-6	1,2,4-Trimethylbenzene	117		108		70	130	7	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 022624-MA1

Date: 2/26/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	107		102		70	130	4	25	
75-35-4	1,1-Dichloroethene	102		101		70	130	1	25	
75-09-2	Dichloromethane	98		94		70	130	4	25	
75-34-3	1,1-Dichloroethane	99		98		70	130	1	25	
67-66-3	Chloroform	98		98		70	130	1	25	
71-55-6	1,1,1-Trichloroethane	102		110		70	130	8	25	
107-06-2	1,2-Dichloroethane	103		110		70	130	7	25	
71-43-2	Benzene	112		101		70	130	10	25	
56-23-5	Carbon tetrachloride	90		101		70	130	12	25	
79-01-6	Trichloroethene	93		97		70	130	3	25	
108-88-3	Toluene	109		121		70	130	11	25	
106-93-4	1,2-Dibromoethane	118		129		70	130	9	25	
127-18-4	Tetrachloroethene	109		123		70	130	12	25	
100-41-4	Ethylbenzene	93		101		70	130	8	25	
1330-20-7	m,p-Xylenes	93		103		70	130	10	25	
95-47-6	o-Xylene	93		103		70	130	10	25	
108-67-8	1,3,5-Trimethylbenzene	91		107		70	130	16	25	
95-63-6	1,2,4-Trimethylbenzene	98		106		70	130	8	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

Analytical Reports

EAS SDG Number: 224051

Project Number: 17695

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less than the RL. See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater than one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: $UG/M3 = PPBV \times MW/24.46$ where 24.46 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 01

File Name: 2405101A.D
Description: CT16-240131
Canister: 376
QC_Batch: 021624-MA1

Date Sampled: 1/31/24 Time: 11:56
Date Analyzed: 2/16/24 Time: 14:22
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.43	0.82	3.88	2.09	J
107-06-2	1,2-Dichloroethane	0.17	0.76	0.44	0.68	3.08	1.79	J
71-43-2	Benzene	0.33	0.67	1.16	1.07	2.13	3.70	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	48.69	0.54	4.18	262.03	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	1.90	0.68	2.75	12.88	
100-41-4	Ethylbenzene	0.35	0.88	0.48	1.53	3.83	2.11	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	85	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 01

File Name: 2405101A.D

Description: CT16-240131

Can/Tube#: 376

QC_Batch: 021624-MA1

Date Sampled: 1/31/24

Time: 11:56

Date Analyzed: 2/16/24

Time: 14:22

Can Dilution Factor: 1.00

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	16.01	2.05	6.15	39.42	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			85	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method:

TO-15

Laboratory ID: 01

File Name: 2405101A.D

Date Sampled: 01/31/24

Time: 11:56

Description: CT16-240131

Date Analyzed: 02/16/24

Time: 14:22

Canister: 376

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	280.50	67.76	203.28	1,351.89	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 02

File Name: 2405102A.D

Date Sampled: 2/1/24

Time: 08:39

Description: CT17-240201

Date Analyzed: 2/16/24

Time: 15:10

Canister: 303

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	3.30	0.82	3.88	16.15	
107-06-2	1,2-Dichloroethane	0.17	0.76	3.24	0.68	3.08	13.15	
71-43-2	Benzene	0.33	0.67	0.67	1.07	2.13	2.13	J
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	10.68	0.68	2.75	72.49	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL	
2037-26-5	Toluene-d8			97	70	130

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 02

File Name: 2405102A.D

Date Sampled: 2/1/24

Time: 08:39

Description: CT17-240201

Date Analyzed: 2/16/24

Time: 15:10

Canister: 303

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
79-01-6	Trichloroethene	0.10	0.78	130.59	0.54	4.18	702.76	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			96	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 02

File Name: 2405102A.D

Date Sampled: 2/1/24

Time: 08:39

Description: CT17-240201

Date Analyzed: 2/16/24

Time: 15:10

Can/Tube#: 303

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	42.56	2.05	6.15	104.77	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 02

File Name: 2405102A.D

Date Sampled: 02/01/24

Time: 08:39

Description: CT17-240201

Date Analyzed: 02/16/24

Time: 15:10

Canister: 303

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	429.79	67.76	203.28	2,071.45	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 03

File Name: 2405103A.D

Date Sampled: 2/1/24

Time: 09:10

Description: SG10-240201-5

Date Analyzed: 2/16/24

Time: 15:50

Canister: 327

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.74	0.82	3.88	3.60	J
107-06-2	1,2-Dichloroethane	0.17	0.76	0.61	0.68	3.08	2.48	J
71-43-2	Benzene	0.33	0.67	1.19	1.07	2.13	3.82	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	9.81	0.91	4.68	53.59	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	4.71	0.68	2.75	31.99	
100-41-4	Ethylbenzene	0.35	0.88	0.52	1.53	3.83	2.28	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 03

File Name: 2405103A.D

Date Sampled: 2/1/24

Time: 09:10

Description: SG10-240201-5

Date Analyzed: 2/26/24

Time: 16:20

Canister: 327

Can Dilution Factor: 1.00

QC_Batch: 022624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
79-01-6	Trichloroethene	0.10	0.78	86.82	0.54	4.18	467.21	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 03

File Name: 2405103A.D

Date Sampled: 2/1/24

Time: 09:10

Description: SG10-240201-5

Date Analyzed: 2/16/24

Time: 15:50

Can/Tube#: 327

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	322.24	2.05	6.15	793.16	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 03

File Name: 2405103A.D

Date Sampled: 02/01/24

Time: 09:10

Description: SG10-240201-5

Date Analyzed: 02/16/24

Time: 15:50

Canister: 327

Can Dilution Factor: 1.00.

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	150.16	67.76	203.28	723.71	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 04

File Name: 2405104A.D

Date Sampled: 2/1/24

Time: 08:14

Description: SG10-240201-10

Date Analyzed: 2/16/24

Time: 16:34

Canister: 377

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.75	0.82	3.88	3.68	J
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.81	1.07	2.13	2.61	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	8.57	0.91	4.68	46.84	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	3.75	0.68	2.75	25.46	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	91	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 04

File Name: 2405104A.D

Date Sampled: 2/1/24

Time: 08:14

Description: SG10-240201-10

Date Analyzed: 2/26/24

Time: 16:57

Canister: 377

Can Dilution Factor: 1.00

QC_Batch: 022624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
79-01-6	Trichloroethene	0.10	0.78	66.81	0.54	4.18	359.54	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 04

File Name: 2405104A.D

Date Sampled: 2/1/24

Time: 08:14

Description: SG10-240201-10

Date Analyzed: 2/16/24

Time: 16:34

Can/Tube#: 377

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	27.35	2.05	6.15	67.32	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			91	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 04

File Name: 2405104A.D

Date Sampled: 02/01/24

Time: 08:14

Description: SG10-240201-10

Date Analyzed: 02/16/24

Time: 16:34

Canister: 377

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	49.39	67.76	203.28	238.06	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 05

File Name: 2405105A.D
Description: SG11-240131-5
Canister: 332
QC_Batch: 021624-MA1

Date Sampled: 1/31/24 Time: 09:39
Date Analyzed: 2/16/24 Time: 17:22
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.70	1.07	2.13	2.23	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	12.06	0.54	4.18	64.89	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	26.90	0.68	2.75	182.69	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

				QC	Limits	Flag
Surrogate Recovery				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			92	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 05

File Name: 2405105A.D

Date Sampled: 1/31/24

Time: 09:39

Description: SG11-240131-5

Date Analyzed: 2/16/24

Time: 17:22

Can/Tube#: 332

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	2.09	2.05	6.15	5.14	J

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			92	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 05

File Name: 2405105A.D

Date Sampled: 01/31/24

Time: 09:39

Description: SG11-240131-5

Date Analyzed: 02/16/24

Time: 17:22

Canister: 332

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	114.71	67.76	203.28	552.88	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 06

File Name: 2405106A.D

Date Sampled: 1/31/24

Time: 09:56

Description: SG11-240131-10

Date Analyzed: 2/16/24

Time: 18:00

Canister: 338

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.45	0.82	3.88	2.19	J
107-06-2	1,2-Dichloroethane	0.17	0.76	0.37	0.68	3.08	1.51	J
71-43-2	Benzene	0.33	0.67	0.80	1.07	2.13	2.55	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	12.60	0.54	4.18	67.80	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	0.73	0.91	4.68	4.00	J
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	19.11	0.68	2.75	129.78	
100-41-4	Ethylbenzene	0.35	0.88	0.35	1.53	3.83	1.53	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 06

File Name: 2405106A.D

Date Sampled: 1/31/24

Time: 09:56

Description: SG11-240131-10

Date Analyzed: 2/16/24

Time: 18:00

Can/Tube#: 338

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	3,620.72	2.05	6.15	8,912.02	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 06

File Name: 2405106A.D

Date Sampled: 01/31/24

Time: 09:56

Description: SG11-240131-10

Date Analyzed: 02/16/24

Time: 18:00

Canister: 338

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	23.97	67.76	203.28	115.55	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 07

File Name: 2405107A.D
Description: SG12-240131-5
Canister: 343
QC_Batch: 021624-MA1

Date Sampled: 1/31/24 Time: 13:42
Date Analyzed: 2/16/24 Time: 18:39
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.83	0.82	3.88	4.06	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.95	1.07	2.13	3.03	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	35.88	0.54	4.18	193.09	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	1.46	0.91	4.68	8.00	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	6.70	0.68	2.75	45.49	
100-41-4	Ethylbenzene	0.35	0.88	0.51	1.53	3.83	2.23	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			99	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051
Laboratory ID: 07

File Name: 2405107A.D

Date Sampled: 01/31/24

Time: 13:42

Description: SG12-240131-5

Date Analyzed: 02/16/24

Time: 18:39

Can/Tube#: 343

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	12.74	2.05	6.15	31.36	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 07

File Name: 2405107A.D

Date Sampled: 01/31/24

Time: 13:42

Description: SG12-240131-5

Date Analyzed: 02/16/24

Time: 18:39

Canister: 343

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	114.22	67.76	203.28	550.52	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 08

File Name: 2405108A.D

Date Sampled: 1/31/24

Time: 13:09

Description: SG12-240131-10

Date Analyzed: 2/16/24

Time: 19:17

Canister: 358

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.28	0.82	3.88	6.26	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.16	1.07	2.13	3.71	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	11.65	0.54	4.18	62.72	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	1.38	0.91	4.68	7.53	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	5.81	0.68	2.75	39.48	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
		% Rec.		LCL	UCL	
2037-26-5	Toluene-d8	98		70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 08

File Name: 2405108A.D

Date Sampled: 01/31/24

Time: 13:09

Description: SG12-240131-10

Date Analyzed: 02/16/24

Time: 19:17

Can/Tube#: 358

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	13.78	2.05	6.15	33.93	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 08

File Name: 2405108A.D

Date Sampled: 01/31/24

Time: 13:09

Description: SG12-240131-10

Date Analyzed: 02/16/24

Time: 19:17

Canister: 358

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	56.16	67.76	203.28	270.65	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 09

File Name: 2405109A.D

Date Sampled: 2/1/24

Time: 07:38

Description: SUB13-240201

Date Analyzed: 2/16/24

Time: 19:56

Canister: 394

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.75	0.82	3.88	3.65	J
107-06-2	1,2-Dichloroethane	0.17	0.76	0.52	0.68	3.08	2.11	J
71-43-2	Benzene	0.33	0.67	0.86	1.07	2.13	2.76	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	36.05	0.54	4.18	194.03	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	1.13	0.91	4.68	6.15	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	1.97	0.68	2.75	13.40	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 09

File Name: 2405109A.D

Date Sampled: 2/1/24

Time: 07:38

Description: SUB13-240201

Date Analyzed: 2/16/24

Time: 19:56

Can/Tube#: 394

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	363.97	2.05	6.15	895.87	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 09

File Name: 2405109A.D

Date Sampled: 02/01/24

Time: 07:38

Description: SUB13-240201

Date Analyzed: 02/16/24

Time: 19:56

Canister: 394

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	209.73	67.76	203.28	1,010.85	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 10

File Name: 2405110A.D

Date Sampled: 2/1/2024

Time: 07:31

Description: SG13-240201-5

Date Analyzed: 2/16/2024

Time: 20:36

Canister: 320

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	2.74	0.82	3.88	13.40	
107-06-2	1,2-Dichloroethane	0.17	0.76	0.80	0.68	3.08	3.26	
71-43-2	Benzene	0.33	0.67	1.12	1.07	2.13	3.59	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	87.57	0.54	4.18	471.28	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	10.32	0.91	4.68	56.37	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	9.06	0.68	2.75	61.53	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 10

File Name: 2405110A.D

Date Sampled: 2/1/2024

Time: 07:31

Description: SG13-240201-5

Date Analyzed: 2/16/2024

Time: 20:36

Can/Tube#: 320

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	13.78	2.05	6.15	33.93	
Surrogate Recovery					% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8				102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 10

File Name: 2405110A.D

Date Sampled: 2/1/2024

Time: 07:31

Description: SG13-240201-5

Date Analyzed: 2/16/2024

Time: 20:36

Canister: 320

Can Dilution Factor: 1.00

QC_Batch: 021624-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	79.19	67.76	203.28	381.67	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 11

File Name: 2405111A.D

Date Sampled: 02/01/24

Time: 08:08

Description: SG13-240201-10

Date Analyzed: 02/21/24

Time: 13:28

Canister: 365

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.06	0.82	3.88	5.17	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.69	1.07	2.13	2.20	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	48.31	0.54	4.18	259.99	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	2.84	0.91	4.68	15.52	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	4.55	0.68	2.75	30.90	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			88	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 11

File Name: 2405111A.D

Date Sampled: 02/01/24

Time: 08:08

Description: SG13-240201-10

Date Analyzed: 02/21/24

Time: 13:28

Can/Tube#: 365

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	119.52	2.05	6.15	294.18	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			88	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 11

File Name: 2405111A.D

Date Sampled: 02/01/24

Time: 08:08

Description: SUB13-240201-10

Date Analyzed: 02/21/24

Time: 13:28

Canister: 365

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	31.39	67.76	203.28	151.29	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 12

File Name: 2405112A.D

Date Sampled: 02/01/24

Time: 08:22

Description: SUB14-240201

Date Analyzed: 02/21/24

Time: 14:06

Canister: 345

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	5.86	0.82	3.88	28.68	
107-06-2	1,2-Dichloroethane	0.17	0.76	1.88	0.68	3.08	7.63	
71-43-2	Benzene	0.33	0.67	1.89	1.07	2.13	6.04	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	28.17	0.91	4.68	153.93	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	44.61	0.68	2.75	302.91	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			88	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 12

File Name: 2405112A.D

Date Sampled: 2/1/24

Time: 08:22

Description: SUB14-240201

Date Analyzed: 2/26/24

Time: 17:53

Canister: 345

Can Dilution Factor: 1.00

QC_Batch: 022624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
79-01-6	Trichloroethene	0.10	0.78	196.78	0.54	4.18	1,058.96	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 12

File Name: 2405112A.D

Date Sampled: 02/01/24 Time: 08:22

Description: SUB14-240201

Date Analyzed: 02/21/24 Time: 14:06

Can/Tube#: 345

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	0.98	2.05	6.15	2.42	J

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			88	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method:

TO-15

Laboratory ID:

12

File Name: 2405112A.D

Date Sampled: 02/01/24

Time: 08:22

Description: SUB14-240201

Date Analyzed: 02/21/24

Time: 14:06

Canister: 345

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	197.67	67.76	203.28	952.69	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 13

File Name: 2405113A.D

Date Sampled: 01/31/24

Time: 11:34

Description: SG14-240131

Date Analyzed: 02/21/24

Time: 14:27

Canister: 369

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.74	0.82	3.88	8.53	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.83	1.07	2.13	2.65	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	10.15	0.54	4.18	54.63	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	2.47	0.68	2.75	16.75	
100-41-4	Ethylbenzene	0.35	0.88	0.52	1.53	3.83	2.27	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
		% Rec.		LCL	UCL	
2037-26-5	Toluene-d8	89		70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 13

File Name: 2405113A.D

Date Sampled: 01/31/24

Time: 11:34

Description: SG14-240131

Date Analyzed: 02/21/24

Time: 14:27

Can/Tube#: 369

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	4.71	2.05	6.15	11.60	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			89	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 13

File Name: 2405113A.D

Date Sampled: 01/31/24

Time: 11:34

Description: SG14-240131

Date Analyzed: 02/21/24

Time: 14:47

Canister: 369

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	34.65	67.76	203.28	166.99	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 14

File Name: 2405114A.D
Description: SUB15-240131
Canister: 378
QC_Batch: 022124-MA1

Date Sampled: 01/31/24 Time: 10:05
Date Analyzed: 02/21/24 Time: 15:27
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.66	0.82	3.88	3.20	J
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.80	1.07	2.13	2.56	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	5.67	0.68	2.75	38.49	
100-41-4	Ethylbenzene	0.35	0.88	0.38	1.53	3.83	1.63	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			94	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 14

File Name: 2405114A.D

Date Sampled: 01/31/24

Time: 10:05

Description: SUB15-240131

Date Analyzed: 02/26/24

Time: 18:31

Canister: 378

Can Dilution Factor: 1.00

QC_Batch: 022624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
79-01-6	Trichloroethene	0.10	0.78	74.99	0.54	4.18	403.53	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			93	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 14

File Name: 2405114A.D

Date Sampled: 01/31/24

Time: 10:05

Description: SUB15-240131

Date Analyzed: 02/21/24

Time: 15:27

Can/Tube#: 378

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	1.52	2.05	6.15	3.74	J

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 14

File Name: 2405114A.D

Date Sampled: 01/31/24

Time: 10:05

Description: SUB15-240131

Date Analyzed: 02/21/24

Time: 15:27

Canister: 378

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	52.09	67.76	203.28	251.06	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 15

File Name: 2405115A.D
Description: SUB16-240131
Canister: 359
QC_Batch: 022124-MA1

Date Sampled: 01/31/24 Time: 09:34
Date Analyzed: 02/21/24 Time: 16:09
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.84	1.07	2.13	2.67	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	2.23	0.54	4.18	11.98	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	5.35	0.68	2.75	36.35	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	1.27	0.89	1.40	6.64	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			92	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 15

File Name: 2405115A.D

Date Sampled: 01/31/24

Time: 09:34

Description: SUB16-240131

Date Analyzed: 02/21/24

Time: 16:09

Can/Tube#: 359

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	14.72	2.05	6.15	36.24	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			92	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 15

File Name: 2405115A.D

Date Sampled: 01/31/24

Time: 09:34

Description: SUB16-240131

Date Analyzed: 02/21/24

Time: 16:09

Canister: 359

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	18.64	67.76	203.28	89.85	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 16

File Name: 2405116A.D
Description: SUB17-240131
Canister: 368
QC_Batch: 022124-MA1

Date Sampled: 01/31/24 Time: 10:41
Date Analyzed: 02/21/24 Time: 16:49
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.76	1.07	2.13	2.42	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	0.67	0.54	4.18	3.60	J
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.77	0.68	2.75	5.25	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	2.53	0.89	1.40	13.28	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			94	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 16

File Name: 2405116A.D

Date Sampled: 01/31/24

Time: 10:41

Description: SUB17-240131

Date Analyzed: 02/21/24

Time: 16:49

Can/Tube#: 368

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	4.65	2.05	6.15	11.44	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 16

File Name: 2405116A.D

Date Sampled: 01/31/24

Time: 10:41

Description: SUB17-240131

Date Analyzed: 02/21/24

Time: 16:49

Canister: 368

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	43.76	67.76	203.28	210.89	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 17

File Name: 2405117A.D
Description: SUB18-240131
Canister: 310
QC_Batch: 022124-MA1

Date Sampled: 01/31/24 Time: 12:03
Date Analyzed: 02/21/24 Time: 17:30
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.95	1.07	2.13	3.04	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	0.50	0.54	4.18	2.70	J
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.86	0.68	2.75	5.84	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	1.09	0.89	1.40	5.73	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 17

File Name: 2405117A.D

Date Sampled: 01/31/24

Time: 12:03

Description: SUB18-240131

Date Analyzed: 02/21/24

Time: 17:30

Can/Tube#: 310

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	2.92	2.05	6.15	7.20	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 17

File Name: 2405117A.D

Date Sampled: 01/31/24

Time: 12:03

Description: SUB18-240131

Date Analyzed: 02/21/24

Time: 17:30

Canister: 310

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	55.51	67.76	203.28	267.52	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 18

File Name: 2405118A.D
Description: SUB19-240131
Canister: 317
QC_Batch: 022124-MA1

Date Sampled: 01/31/24 Time: 13:17
Date Analyzed: 02/21/24 Time: 18:08
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.82	1.07	2.13	2.63	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	4.94	0.54	4.18	26.58	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	1.01	0.68	2.75	6.88	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	0.89	0.89	1.40	4.67	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			96	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 18

File Name: 2405118A.D

Date Sampled: 01/31/24

Time: 13:17

Description: SUB19-240131

Date Analyzed: 02/21/24

Time: 18:08

Can/Tube#: 317

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	18.86	2.05	6.15	46.42	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			96	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 18

File Name: 2405118A.D

Date Sampled: 01/31/24

Time: 13:17

Description: SUB19-240131

Date Analyzed: 02/21/24

Time: 18:08

Canister: 317

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	37.37	67.76	203.28	180.09	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 19

File Name: 2405119A.D

Date Sampled: 01/31/24

Time: 13:20

Description: SUB20-240131

Date Analyzed: 02/21/24

Time: 18:08

Canister: 344

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.75	1.07	2.13	2.41	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	26.03	0.54	4.18	140.07	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.60	0.68	2.75	4.05	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	0.51	0.89	1.40	2.68	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL	
2037-26-5	Toluene-d8			94	70	130

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 19

File Name: 2405119A.D

Date Sampled: 01/31/24

Time: 13:20

Description: SUB20-240131

Date Analyzed: 02/21/24

Time: 18:08

Can/Tube#: 344

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	13.07	2.05	6.15	32.17	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 19

File Name: 2405119A.D

Date Sampled: 01/31/24

Time: 13:20

Description: SUB20-240131

Date Analyzed: 02/21/24

Time: 18:48

Canister: 344

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	39.64	67.76	203.28	191.05	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 20

File Name: 2405120A.D

Date Sampled: 02/01/24

Time: 09:44

Description: SUB21-240201

Date Analyzed: 02/21/24

Time: 19:29

Canister: 383

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.89	0.82	3.88	9.22	
107-06-2	1,2-Dichloroethane	0.17	0.76	1.48	0.68	3.08	6.02	
71-43-2	Benzene	0.33	0.67	1.89	1.07	2.13	6.04	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	0.69	0.91	4.68	3.75	J
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	6.92	0.68	2.75	46.97	
100-41-4	Ethylbenzene	0.35	0.88	3.26	1.53	3.83	14.18	
91-20-3	Naphthalene	0.17	0.27	0.43	0.89	1.40	2.27	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			96	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 20

File Name: 2405120A.D

Date Sampled: 02/01/24

Time: 09:44

Description: SUB21-240201

Date Analyzed: 02/26/24

Time: 19:11

Canister: 383

Can Dilution Factor: 1.00

QC_Batch: 022624-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
79-01-6	Trichloroethene	0.10	0.78	78.26	0.54	4.18	421.15	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 20

File Name: 2405120A.D

Date Sampled: 02/01/24

Time: 09:44

Description: SUB21-240201

Date Analyzed: 02/21/24

Time: 19:29

Can/Tube#: 383

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	2.30	2.05	6.15	5.65	J

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			96	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 20

File Name: 2405120A.D

Date Sampled: 02/01/24

Time: 09:44

Description: SUB21-240201

Date Analyzed: 02/21/24

Time: 19:29

Canister: 383

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	176.94	67.76	203.28	852.81	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 21

File Name: 2405121A.D
Description: SUB22-240131
Canister: 316
QC_Batch: 022124-MA1

Date Sampled: 1/31/24 Time: 11:28
Date Analyzed: 2/21/24 Time: 20:08
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	2.80	1.07	2.13	8.95	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	8.90	0.54	4.18	47.91	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.78	0.68	2.75	5.30	
100-41-4	Ethylbenzene	0.35	0.88	1.18	1.53	3.83	5.12	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 21

File Name: 2405121A.D

Date Sampled: 01/31/24

Time: 11:28

Description: SUB22-240131

Date Analyzed: 02/21/24

Time: 20:08

Can/Tube#: 316

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	22.38	2.05	6.15	55.07	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 21

File Name: 2405121A.D

Date Sampled: 01/31/24

Time: 11:28

Description: SUB22-240131

Date Analyzed: 02/21/24

Time: 20:08

Canister: 316

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	134.77	67.76	203.28	649.57	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224051

Laboratory ID: 22

File Name: 2405122A.D

Date Sampled: 2/1/2024

Time: 10:12

Description: SSD01-VENT-240201

Date Analyzed: 2/21/2024

Time: 20:46

Canister: 933

Can Dilution Factor: 1.00

QC_Batch: 022124-MA1

Air Volume: 300.00 ml

		MDL	RL	Amount	MDL	RL	Amount
79-01-6	Trichloroethene	0.10	0.78	26.64	0.54	4.18	143.34

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224051

Analytical Method: TO-15

Laboratory ID: 23

File Name: 2405123A.D

Date Sampled: 2/1/2024

Time: 10:14

Description: SSD02-VENT-240201

Date Analyzed: 2/26/2024

Time: 14:14

Canister: 388

Can Dilution Factor: 1.00

QC_Batch: 022624-MA1

Air Volume: 300.00 ml

		MDL	RL	Amount	MDL	RL	Amount
79-01-6	Trichloroethene	0.10	0.78	27.27	0.54	4.18	146.76

	Surrogate Recovery	% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	94	70	130	

May 15, 2024

Lynn Green
Evren Northwest
40 SE 24th Avenue Unit A
Portland,, OR 97214

Project Location: 2638 SE 9th Ave, Portland, OR
Client Job Number:
Project Number: 186-19002-07
Laboratory Work Order Number: 24E1058

Enclosed are results of analyses for samples as received by the laboratory on May 8, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karriem G. Marius
Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Evren Northwest
40 SE 24th Avenue Unit A
Portland,, OR 97214
ATTN: Lynn Green

REPORT DATE: 5/15/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 186-19002-07

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24E1058

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 2638 SE 9th Ave, Portland, OR

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IA01	24E1058-01	Indoor air		RAD 130	
IA02	24E1058-02	Indoor air		RAD 130	
IA03	24E1058-03	Indoor air		RAD 130	
IA04	24E1058-04	Indoor air		RAD 130	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

ANALYTICAL RESULTS

Project Location: 2638 SE 9th Ave, Portland, OR

Date Received: 5/8/2024

Field Sample #: 1A01

Sample ID: 24E1058-01

Sample Matrix: Indoor air

Sampled: 5/2/2024 08:00

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 1.0

Work Order: 24E1058

RAD 130

Analyte	Total µg		Flag/Qual	Dilution	Date/Time		Analyst
	Results	RL			Analyzed		
Vinyl Chloride	ND	0.16		1	5/10/24 14:25		GP
1,1-Dichloroethene	ND	1.0		1	5/10/24 14:25		GP
trans-1,2-Dichloroethene	ND	1.0		1	5/10/24 14:25		GP
cis-1,2-Dichloroethene	ND	0.20		1	5/10/24 14:25		GP
Trichloroethene	ND	0.20		1	5/10/24 14:25		GP
Tetrachloroethene	5.6	0.20		1	5/10/24 14:25		GP

ANALYTICAL RESULTS

Project Location: 2638 SE 9th Ave, Portland, OR

Date Received: 5/8/2024

Field Sample #: IA02**Sample ID: 24E1058-02**

Sample Matrix: Indoor air

Sampled: 5/2/2024 08:08

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 1.0

Work Order: 24E1058**RAD 130**

Analyte	Total µg		Flag/Qual	Date/Time		
	Results	RL		Dilution	Analyzed	Analyst
Vinyl Chloride	ND	0.16		1	5/10/24 14:40	GP
1,1-Dichloroethene	ND	1.0		1	5/10/24 14:40	GP
trans-1,2-Dichloroethene	ND	1.0		1	5/10/24 14:40	GP
cis-1,2-Dichloroethene	ND	0.20		1	5/10/24 14:40	GP
Trichloroethene	ND	0.20		1	5/10/24 14:40	GP
Tetrachloroethene	1.5	0.20		1	5/10/24 14:40	GP

ANALYTICAL RESULTS

Project Location: 2638 SE 9th Ave, Portland, OR

Date Received: 5/8/2024

Field Sample #: IA03**Sample ID: 24E1058-03**

Sample Matrix: Indoor air

Sampled: 5/2/2024 08:32

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 1.0

Work Order: 24E1058**RAD 130**

Analyte	Total µg		Flag/Qual	Date/Time		
	Results	RL		Dilution	Analyzed	Analyst
Vinyl Chloride	ND	0.16		1	5/10/24 14:55	GP
1,1-Dichloroethene	ND	1.0		1	5/10/24 14:55	GP
trans-1,2-Dichloroethene	ND	1.0		1	5/10/24 14:55	GP
cis-1,2-Dichloroethene	ND	0.20		1	5/10/24 14:55	GP
Trichloroethene	ND	0.20		1	5/10/24 14:55	GP
Tetrachloroethene	0.64	0.20		1	5/10/24 14:55	GP

ANALYTICAL RESULTS

Project Location: 2638 SE 9th Ave, Portland, OR

Date Received: 5/8/2024

Field Sample #: IA04**Sample ID: 24E1058-04**

Sample Matrix: Indoor air

Sampled: 5/2/2024 08:21

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Sampling Time Min: 1.0

Work Order: 24E1058**RAD 130**

Analyte	Total µg		Flag/Qual	Date/Time			Analyst
	Results	RL		Dilution	Analyzed		
Vinyl Chloride	ND	0.16		1	5/10/24 15:10		GP
1,1-Dichloroethene	ND	1.0		1	5/10/24 15:10		GP
trans-1,2-Dichloroethene	ND	1.0		1	5/10/24 15:10		GP
cis-1,2-Dichloroethene	ND	0.20		1	5/10/24 15:10		GP
Trichloroethene	ND	0.20		1	5/10/24 15:10		GP
Tetrachloroethene	0.68	0.20		1	5/10/24 15:10		GP

Sample Extraction Data**Prep Method:**NB GC No Prep **Analytical Method:**RAD 130

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24E1058-01 [IA01]	B374043	1.00	2.00	05/10/24
24E1058-02 [IA02]	B374043	1.00	2.00	05/10/24
24E1058-03 [IA03]	B374043	1.00	2.00	05/10/24
24E1058-04 [IA04]	B374043	1.00	2.00	05/10/24

QUALITY CONTROL**Miscellaneous Air Analyses - Quality Control**

Analyte	Total µg		ug/m3		Spike Level	Source	%REC		RPD		Flag/Qual
	Results	RL	Results	RL	Total µg	Result	%REC	Limits	RPD	Limit	

Batch B374043 - NB GC No Prep**Blank (B374043-BLK1)**

Prepared & Analyzed: 05/10/24

Vinyl Chloride	ND	0.16
1,1-Dichloroethene	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
cis-1,2-Dichloroethene	ND	0.20
Trichloroethene	ND	0.20
Tetrachloroethene	ND	0.20

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.	
No results have been blank subtracted unless specified in the case narrative section.	

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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No certified Analyses included in this Report

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
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Thursday, May 16, 2024

Sample Delivery Group (SDG) 224175
EAS Project Number: 17695

Lynn Green
Evren Northwest Inc.
40 SE 24th Avenue, Suite A
Portland, OR 97214

Lynn,

Enclosed is the analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following Project.

Client Project Name: Irwin Hodson
PO Number: 186-19002-07
Client Project Number 186-19002-07
Sample Event Date: 4/12/2024

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely,

Steven D. Hoyt Ph.D.
Laboratory Director

SDH/LIMS

Analytical Report

Project Name:

Irwin Hodson

EAS SDG Number: 224175

Client Project Manager: Lynn Green

Prepared For:

Evren Northwest Inc.

40 SE 24th Avenue, Suite A

Portland

OR 97214

Project Number: 17695

Sample Event Date: 4/12/2024

Received Date: 5/6/2024

Report Date: 5/16/2024

Project Number: 186-19002-07

PO Number: 186-19002-07

This is the Laboratory Report for the samples in the indicated Sample Delivery Group (SDG). Each sample received in the group is assigned a Laboratory ID number. The combination of the SDG number and the Lab ID number is a unique identifier for the sample.

This Report Contains:

Laboratory Work Order

Project Sample Media

Laboratory Case Narrative and Chain of Custody

Method Description (when applicable)

Quality Control Reports

Analytical Reports

NELAC Certification: Florida E871125

173 Cross Street, San Luis Obispo, CA 93401 (805) 781-3585

Laboratory Work Order

SDG Number: 224175

Project Number: 17695

Client: Lynn Green

Received: 5/6/2024

Evren Northwest Inc.

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
IA01-240502	224175 1	EPA TO-15 SIM Special	4/12/2024
IA02-240502	224175 2	EPA TO-15 SIM Special	4/12/2024
IA03-240502	224175 3	EPA TO-15 SIM Special	4/12/2024
IA04-240502	224175 4	EPA TO-15 SIM Special	4/12/2024
OA01-240502	224175 5	EPA TO-15 SIM Special	4/12/2024

Project Sample Media

SDG Number: 224175

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pressurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr		Can Factor
					Initial	Final	
224175	1	IA01-240502	847		331	331	1.00
224175	2	IA02-240502	606		431	431	1.00
224175	3	IA03-240502	694		421	421	1.00
224175	4	IA04-240502	785		312	312	1.00
224175	5	OA01-240502	650		364	364	1.00

Laboratory Case Narrative

EAS SDG Number: 224175

Project Number: 17695

Client: Evren Northwest Inc.

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 5/16/2024

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

ENVIRONMENTAL

Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

CHAIN OF CUSTODY RECORD

17695

Project Number 186-19002-07		Project Name Turner Hodges		Quote 17695		Requested TAT Standard/10 day												
REPORT TO:																		
Attention	Lynne Green			Matrix														
Company	Turner Northwest			A - Ambient Air														
Address	PO Box 14406			SG - Soil Gas														
City, State, Zip	Portland OR 97293			S - Source														
Phone/Fax	503 452-5561			I - Indoor Air														
e-mail	lynne@turner-nw.com			SDG 24175														
Sample Description	Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number	Matrix	Initial Pressure	Final Pressure	Laboratory ID	TCE, PCE, GRO	EDB, EDC	1,1,2 Trichloroethane	Benzene, Ethyl Benzene, naphthalene	Carbon tetrachloride	Chloroform	Comments	
IA01-240502	4/17/24	8:14	5/10/24	7:56	047	52	I	30	18	01	X	X	X	X	X			
"	"	"	"	"	672	"	I	30	18									
"	"	"	"	"	781	"	I	30	18									
"	"	"	"	"	574	"	I	30	18									
IA02-240502	4/17/24	8:30	5/10/24	8:09	606	50	I	29	14	02	X	X	X	X	X			
"	"	"	"	"	850	"	I	29	14									
"	"	"	"	"	860	"	I	29	14									
"	"	"	"	"	617	"	I	29	14									
Comments																		
BILLING INFORMATION:																		
SAMPLED BY											Date/Time							
ATTENTION											5/6/24							
Company											17:00							
Address																		
City, State, Zip											RECEIVED FOR LAB							
Purchase Order											5/6/2024							
											12:00							

ENVIRONMENTAL

Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

CHAIN OF CUSTODY RECORD

17695

pg 2

Project Number		186-13002-02		Project Name		Irwin Hodges		Quote		17702		Requested TAT		Standard today	
REPORT TO:															
Attention		Lynn Green				Matrix									
Company		Ehren Northwest				A - Ambient Air									
Address		PO Box 14408				SG - Soil Gas									
City, State, Zip		Portland OR 97293				S - Source									
Phone/Fax		503 452-5561				I - Indoor Air									
e-mail		lynn@green-nw.com				SDG									
Sample Description		Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number	Matrix	Initial Pressure	Final Pressure	Laboratory ID	Analytical Tests			
IA03-240502		04/12/24	847	5:02:24	030	694	46	I	730	18	03	X	X	X	
"		"	"	"	"	545	"	I	730	18		X			
"		"	"	"	"	673	"	I	730	18					
"		"	"	"	"	696	"	I	730	18					
IA04-240502		04/12/24	9:01	5:02:24	021	785	49	I	28	17	04	X	X	X	
"		"	"	"	"	844	"	I	28	17					
"		"	"	"	"	718	"	I	28	17					
"		"	"	"	"	675	"	I	28	17					
Comments															
BILLING INFORMATION:															
SAMPLED BY												Date/Time			
ATTENTION												15/02/24			
Company												12:00			
Address															
City, State, Zip															
Purchase Order															
RECEIVED FOR LAB															
J. Pitt												5/6/2024			
												12:00			

Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA 93401

769

3

Project Number		186-19001-07		Project Name									
Quote		47700X		Requested TAT									
Standard													
REPORT TO:				Analytical Tests									
Attention		Lynn Green		Matrix									
Company		Evan Northwest		A - Ambient Air									
Address		R Box 1488B		SG - Soil Gas									
City, State, Zip		Portland OR 97213		S - Source									
Phone/Fax		503 452-536		I - Indoor Air									
e-mail		lynn@evan-nw.com		SDG 224175									
Sample Description		Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number	Matrix	Initial Pressure	Final Pressure	Laboratory ID	Comments	
OAO1-240502		09/17/29	11	11	11	650	51	X	22	17	OS	X	TCE, EDB, EDC
"		"	"	"	"	707	51		27	17		X	PCE, GRO
"		"	"	"	"	724	51		27	17		X	1,1,2 Trichloroethane
"		"	"	"	"	716	51		27	17		X	Napthalene
"		"	"	"	"							X	Benzene ethyl benzene
"		"	"	"	"							X	C.Tetra chloride
"		"	"	"	"							X	Chloroform
Comments													
BILLING INFORMATION:		SAMPLED BY		Date/Time		RECEIVED FOR LAB		COC Number		Cooler Temp		Airbill	
ATTENTION		Lynn Green		5/20/24		J. J.							
Company		Evan Northwest		Vrac									
Address													
City, State, Zip													
Purchase Order		186-19001-07		5/16/2024									

Quality Control Report

EAS SDG Number 224175

Project Number: 17695

QC Narrative

Samples were analyzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different than the referenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater than ten times the blank value.

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: LABQC
Laboratory ID: B05084

File Name: B05084D.D
Description: METHOD BLANK
Can/Tube#:
QC_Batch: 050824-MSB

Date Sampled:
Date Analyzed: 05/08/24
Can Dilution Factor: 1.00
Air Volume: 1000 ml
Time: 13:20

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	ND	0.015	0.049	ND	
107-06-2	1,2-Dichloroethane	0.003	0.010	ND	0.012	0.041	ND	
71-43-2	Benzene	0.050	0.100	ND	0.160	0.320	ND	
56-23-5	Carbon tetrachloride	0.003	0.010	ND	0.019	0.063	ND	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	ND	0.021	0.034	ND	
100-41-4	Ethylbenzene	0.003	0.010	ND	0.013	0.043	ND	
91-20-3	Naphthalene	0.005	0.009	ND	0.026	0.047	ND	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			94	70	130		

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH
Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B05084

File Name: B05084D.D
Description: METHOD BLANK
Canister:
QC_Batch: 050824-MA1

Date Sampled:
Date Analyzed: 5/8/2024
Can Dilution Factor: 1.00
Air Volume: 1,000 ml
Time: 13:20

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: LABQC
Laboratory ID: B05094

File Name: B05094C.D
Description: METHOD BLANK
Can/Tube#:
QC_Batch: 050924-MSB

Date Sampled:
Date Analyzed: 05/09/24
Can Dilution Factor: 1.00
Air Volume: 1000 ml
Time: 14:34

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	ND	0.015	0.049	ND	
107-06-2	1,2-Dichloroethane	0.003	0.010	ND	0.012	0.041	ND	
71-43-2	Benzene	0.050	0.100	ND	0.160	0.320	ND	
56-23-5	Carbon tetrachloride	0.003	0.010	ND	0.019	0.063	ND	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	ND	0.021	0.034	ND	
100-41-4	Ethylbenzene	0.003	0.010	ND	0.013	0.043	ND	
91-20-3	Naphthalene	0.005	0.009	ND	0.026	0.047	ND	
Surrogate Recovery					% Rec.	QC	Limits	Flag
2037-26-5	Toluene-d8				109	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: LABQC

Laboratory ID: B05094

File Name: B05094C.D

Description: METHOD BLANK

Canister:

QC_Batch: 050924-MA1

Date Sampled:

Date Analyzed: 5/9/2024

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time:

Time: 14:34

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 SIM Volatile Organic Compounds by GC/MS

QC_Batch: 050824-MB1

Date: 05/08/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	80		95		70	130	17	25	
75-35-4	1,1-Dichloroethene	104		117		70	130	13	25	
75-09-2	Dichloromethane	90		100		70	130	11	25	
75-34-3	1,1-Dichloroethane	102		108		70	130	5	25	
67-66-3	Chloroform	110		114		70	130	3	25	
71-55-6	1,1,1-Trichloroethane	115		125		70	130	9	25	
107-06-2	1,2-Dichloroethane	98		110		70	130	11	25	
71-43-2	Benzene	71		74		70	130	3	25	
79-01-6	Trichloroethene	96		94		70	130	2	25	
108-88-3	Toluene	96		96		70	130	1	25	
127-18-4	Tetrachloroethene	92		85		70	130	8	25	
100-41-4	Ethylbenzene	93		101		70	130	8	25	
1330-20-7	m,p-Xylenes	97		100		70	130	3	25	
95-47-6	o-Xylene	100		103		70	130	3	25	
108-67-8	1,3,5-Trimethylbenzene	104		110		70	130	6	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 SIM Volatile Organic Compounds by GC/MS

QC_Batch: 050924-MB1

Date: 05/09/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	90		91		70	130	1	25	
75-35-4	1,1-Dichloroethene	116		110		70	130	6	25	
75-09-2	Dichloromethane	114		104		70	130	9	25	
75-34-3	1,1-Dichloroethane	113		108		70	130	4	25	
67-66-3	Chloroform	106		118		70	130	11	25	
71-55-6	1,1,1-Trichloroethane	107		125		70	130	16	25	
107-06-2	1,2-Dichloroethane	106		108		70	130	1	25	
71-43-2	Benzene	71		74		70	130	4	25	
79-01-6	Trichloroethene	108		101		70	130	7	25	
108-88-3	Toluene	123		126		70	130	3	25	
127-18-4	Tetrachloroethene	107		100		70	130	7	25	
100-41-4	Ethylbenzene	126		120		70	130	5	25	
1330-20-7	m,p-Xylenes	103		129		70	130	22	25	
95-47-6	o-Xylene	129		127		70	130	2	25	
108-67-8	1,3,5-Trimethylbenzene	123		116		70	130	6	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

Analytical Reports

EAS SDG Number 224175

Project Number: 17695

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less than the RL. See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater than one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: $UG/M3 = PPBV \times MW/24.46$ where 24.46 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224175

Laboratory ID: 01

File Name: 2417501A.D

Date Sampled: 04/12/24 Time: 8:14

Description: IA01-240502

Date Analyzed: 05/08/24 Time: 7:20

Can/Tube#: 847

Can Dilution Factor: 1.00

QC_Batch: 050824-MSB

Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.018	0.015	0.049	0.089	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.019	0.012	0.041	0.077	
71-43-2	Benzene	0.050	0.100	0.185	0.160	0.320	0.590	
56-23-5	Carbon tetrachloride	0.003	0.010	0.047	0.019	0.063	0.295	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	0.141	0.021	0.034	0.956	
100-41-4	Ethylbenzene	0.003	0.010	0.402	0.013	0.043	1.748	
91-20-3	Naphthalene	0.005	0.009	0.024	0.026	0.047	0.124	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			106	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: 224175

Laboratory ID: 01

File Name: 2417501A.D

Date Sampled: 4/12/2024

Time: 08:14

Description: IA01-240502

Date Analyzed: 5/8/2024

Time: 7:20

Canister: 847

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 1,000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	64.18	67.76	203.28	263.03	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224175

Laboratory ID: 02

File Name: 2417502A.D

Date Sampled: 04/12/24 Time: 8:30

Description: IA02-240502

Date Analyzed: 05/08/24 Time: 20:02

Can/Tube#: 606

Can Dilution Factor: 1.00

QC_Batch: 050824-MSB

Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.039	0.015	0.049	0.188	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.042	0.012	0.041	0.172	
71-43-2	Benzene	0.050	0.100	0.269	0.160	0.320	0.861	
56-23-5	Carbon tetrachloride	0.003	0.010	0.130	0.019	0.063	0.818	
79-01-6	Trichloroethene	0.003	0.005	0.015	0.016	0.027	0.082	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	0.067	0.015	0.019	0.517	
127-18-4	Tetrachloroethene	0.003	0.005	0.059	0.021	0.034	0.400	
100-41-4	Ethylbenzene	0.003	0.010	1.066	0.013	0.043	4.637	
91-20-3	Naphthalene	0.005	0.009	0.030	0.026	0.047	0.159	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			86	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: 224175

Laboratory ID:

02

File Name: 2417502A.D

Date Sampled: 4/12/2024

Time: 08:30

Description: IA02-240502

Date Analyzed: 5/8/2024

Time: 20:02

Canister: 606

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 1,000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	64.18	67.76	203.28	263.03	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224175

Laboratory ID: 03

File Name: 2417503A.D
Description: IA03-240502
Can/Tube#: 694
QC_Batch: 050824-MSB

Date Sampled: 04/12/24 Time: 8:47
Date Analyzed: 05/08/24 Time: 20:45
Can Dilution Factor: 1.00
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.032	0.015	0.049	0.155	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.032	0.012	0.041	0.128	
71-43-2	Benzene	0.050	0.100	0.169	0.160	0.320	0.539	
56-23-5	Carbon tetrachloride	0.003	0.010	0.082	0.019	0.063	0.519	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	0.006	0.015	0.019	0.049	
127-18-4	Tetrachloroethene	0.003	0.005	0.026	0.021	0.034	0.179	
100-41-4	Ethylbenzene	0.003	0.010	2.670	0.013	0.043	11.612	
91-20-3	Naphthalene	0.005	0.009	0.043	0.026	0.047	0.225	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			89	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: 224175

Laboratory ID: 03

File Name: 2417503A.D

Date Sampled: 4/12/2024

Time: 08:47

Description: IA03-240502

Date Analyzed: 5/8/2024

Time: 20:45

Canister: 694

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 1,000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	120.29	67.76	203.28	492.99	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224175

Laboratory ID: 04

File Name: 2417504A.D

Description: IA04-240502

Can/Tube#: 785

QC_Batch: 050824-MSB

Date Sampled: 04/12/24

Time: 9:01

Date Analyzed: 05/08/24

Time: 21:26

Can Dilution Factor: 1.00

Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.036	0.015	0.049	0.178	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.026	0.012	0.041	0.104	
71-43-2	Benzene	0.050	0.100	0.157	0.160	0.320	0.503	
56-23-5	Carbon tetrachloride	0.003	0.010	0.080	0.019	0.063	0.506	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	0.016	0.015	0.019	0.122	
127-18-4	Tetrachloroethene	0.003	0.005	0.041	0.021	0.034	0.276	
100-41-4	Ethylbenzene	0.003	0.010	5.630	0.013	0.043	24.486	
91-20-3	Naphthalene	0.005	0.009	0.031	0.026	0.047	0.162	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			108	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: 224175

Laboratory ID: 04

File Name: 2417504A.D

Date Sampled: 4/12/2024

Time: 09:01

Description: IA04-240502

Date Analyzed: 5/8/2024

Time: 21:26

Canister: 785

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 1,000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	114.05	67.76	203.28	467.42	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: 224175

Laboratory ID: 05

File Name: 2417505A.D

Description: OA01-240502

Can/Tube#: 650

QC_Batch: 050924-MSB

Date Sampled: 04/12/24 Time: 9:15

Date Analyzed: 05/09/24 Time: 15:57

Can Dilution Factor: 1.00

Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.003	0.010	0.021	0.015	0.049	0.103	
107-06-2	1,2-Dichloroethane	0.003	0.010	0.023	0.012	0.041	0.094	
71-43-2	Benzene	0.050	0.100	0.095	0.160	0.320	0.302	J
56-23-5	Carbon tetrachloride	0.003	0.010	0.073	0.019	0.063	0.460	
79-01-6	Trichloroethene	0.003	0.005	ND	0.016	0.027	ND	
79-00-5	1,1,2-Trichloroethane	0.003	0.010	ND	0.017	0.055	ND	
106-93-4	1,2-Dibromoethane	0.002	0.003	ND	0.015	0.019	ND	
127-18-4	Tetrachloroethene	0.003	0.005	0.025	0.021	0.034	0.173	
100-41-4	Ethylbenzene	0.003	0.010	0.009	0.013	0.043	0.037	J
91-20-3	Naphthalene	0.005	0.009	0.031	0.026	0.047	0.165	
Surrogate Recovery				% Rec.	QC	Limits	Flag	
2037-26-5	Toluene-d8			90	70	130		

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: 224175

Laboratory ID:

05

File Name: 2417505A.D
Description: OA01-240502
Canister: 650
QC_Batch: 050924-MA1

Date Sampled: 4/12/2024 Time: 09:15
Date Analyzed: 5/9/2024 Time: 15:57
Can Dilution Factor: 1.00
Air Volume: 1,000 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	141.61	67.76	203.28	580.37	



Friday, May 31, 2024

Sample Delivery Group (SDG) 224179
EAS Project Number: 17695

Lynn Green
Evren Northwest Inc.
40 SE 24th Avenue, Suite A
Portland, OR 97214

Lynn,

Enclosed is the analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following Project.

Client Project Name: Irwin Hodson (186-19002-07)
PO Number: 186-19002-07
Client Project Number: 186-19002-07
Sample Event Date: 5/2/2024

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely,

Steven D. Hoyt Ph.D.
Laboratory Director

SDH/LIMS

Analytical Report

Project Name:

Irwin Hodson (186-19002-07)

EAS SDG Number: **224179**

Client Project Manager: Lynn Green

Prepared For:

Evren Northwest Inc.

40 SE 24th Avenue, Suite A

Portland

OR 97214

Project Number: 17695

Sample Event Date: 5/2/2024

Received Date: 5/6/2024

Report Date: 5/31/2024

Project Number: 186-19002-07

PO Number: 186-19002-07

This is the Laboratory Report for the samples in the indicated Sample Delivery Group (SDG). Each sample received in the group is assigned a Laboratory ID number. The combination of the SDG number and the Lab ID number is a unique identifier for the sample.

This Report Contains:

Laboratory Work Order

Project Sample Media

Laboratory Case Narrative and Chain of Custody

Method Description (when applicable)

Quality Control Reports

Analytical Reports

NELAC Certification: Florida E871125

173 Cross Street, San Luis Obispo, CA 93401 (805) 781-3585

Laboratory Work Order

SDG Number: 224179

Project Number: 17695

Client: Lynn Green

Received: 5/6/2024

Evren Northwest Inc.

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
CT17-240502	224179 1	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB14-240502	224179 2	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB15-240502	224179 3	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB16-240502	224179 4	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB18-240502	224179 5	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB19-240502	224179 6	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB20-240502	224179 7	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB21-240502	224179 8	EPA TO-15 Special + GRO + IPA	5/2/2024
SUB22-240502	224179 9	EPA TO-15 Special + GRO + IPA	5/2/2024
SG10-240502-5	224179 10	EPA TO-15 Special + GRO + IPA	5/2/2024
SG10-240502-10	224179 11	EPA TO-15 Special + GRO + IPA	5/2/2024
SG11-240502-10	224179 12	EPA TO-15 Special + GRO + IPA	5/2/2024
SG12-240502-5	224179 13	EPA TO-15 Special + GRO + IPA	5/2/2024
SG12-240502-10	224179 14	EPA TO-15 Special + GRO + IPA	5/2/2024
SG14-240502	224179 15	HOLD	5/2/2024

Project Sample Media

SDG Number: 224179

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pressurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample	Batch	Pressure, torr		Can
			Media		Initial	Final	
224179	1	CT17-240502	319		635	635	1.00
224179	2	SUB14-240502	934		644	644	1.00
224179	3	SUB15-240502	312		222	222	1.00
224179	4	SUB16-240502	380		713	713	1.00
224179	5	SUB18-240502	387		657	657	1.00
224179	6	SUB19-240502	339		651	651	1.00
224179	7	SUB20-240502	359		710	710	1.00
224179	8	SUB21-240502	313		686	686	1.00
224179	9	SUB22-240502	393		697	697	1.00
224179	10	SG10-240502-5	385		670	670	1.00
224179	11	SG10-240502-10	368		649	649	1.00
224179	12	SG11-240502-10	300		757	757	1.00
224179	13	SG12-240502-5	338		627	627	1.00
224179	14	SG12-240502-10	347		682	682	1.00
224179	15	SG14-240502	347		646	646	1.00

Laboratory Case Narrative

EAS SDG Number: 224179

Project Number: 17695

Client: Evren Northwest Inc.

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 5/31/2024

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

ENVIRONMENTAL

Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

CHAIN OF CUSTODY RECORD

(Pg 1)

Project Number 186-19002-07		Project Name 186-19002-07		Quote 17695		Requested TAT Standard	
REPORT TO:						Analytical Tests	
Attention Lynn Green		Company Evren Northwest		Address Do Boy 14488		City, State, Zip Portland OR	
Phone/Fax 503 452-5561		e-mail Lynn@evren-nw.com		Matrix A - Ambient Air SG - Soil Gas S - Source I - Indoor Air		SDG 24179	
Sample Description	Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number	Matrix
Initial Pressure	Final Pressure	Laboratory ID					
GT17-240502	5/6/24	928	5/6/24	953	319	2581	SG
SUB14-240502	"	926	"	957	934	2625	"
SUB15-240502	"	941	"	1122	312	2664	"
SUB16-240502	"	1353	"	1425	380	2660	"
SUB18-240502	"	1044	"	1113	387	2589	"
SUB19-240502	"	1130	"	1202	339	2545	"
SUB20-240502	"	1200	"	1234	359	2933	"
SUB21-240502	"	1204	"	1237	313	2501	"
Comments							
BILLING INFORMATION:				SAMPLED BY		Date/Time	
ATTENTION	Leslye Pena-Moffatt			[Signature]		5/6/24	
Company	Evren Northwest					17:00	
Address	"						
City, State, Zip	"						
Purchase Order	186-19002-07			RECEIVED FOR LAB		5/6/2024 @ 1300	
				COC Number			
				Cooler Temp			
				Airbill			

ENVIRONMENTAL

Analytical Service, Inc.

CHAIN OF CUSTODY RECORD

173 Cross Street
San Luis Obispo, CA 93401

805 781-3585

(192)

Project Number 186-19002-07		Project Name Truina Hodson		Quote 17695		Requested TAT Standard	
REPORT TO:				Analytical Tests			
Attention Lynn Green		Company Puven Northwest		Matrix A - Ambient Air		TCE, PCE, GRO	
Address PO Box 14408		City, State, Zip Portland OR 97293		SG - Soil Gas		EDB, EDC	
Phone/Fax 503 452-5561		e-mail Lyng@puven-nw.com		S - Source		1,1,2 Trichloroethene	
				I - Indoor Air		Benzene, Ethylbenzene, Toluene, Xylenes, n-Propylchloride, Isobutylene	
				SDG 24179		TCE, PCE, GRO	
Sample Description	Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number	Matrix
Sub 22-240502	5/6/24	955	5/02	1027	393	2531	SG
SG10-240502-5	"	1021	"	1050	385	2563	"
SG10-240502-10	"	938	"	1004	368	2636	"
SG11-240502-10	"	1359	"	1421	300	2575	"
SG12-240502-5	"	1238	"	1302	338	2681	"
SG12-240502-10	"	1147	"	1221	347	2679	"
SG14-240502	"	1026	"	1147	311	2585	"
Initial Pressure							
Final Pressure							
Laboratory ID							
Comments							
BILLING INFORMATION:							
ATTENTION Leslie Penn Maffett				SAMPLED BY [Signature]		Date/Time 5/6/24	
Company "						17:00	
Address "						COC Number	
City, State, Zip "				RECEIVED FOR LAB		Cooler Temp	
Purchase Order 186-19002-07				[Signature]		Airbill	
						5/6/2024	
						@1300	

Quality Control Report

EAS SDG Number: 224179

Project Number: 17695

QC Narrative

Samples were analyzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different than the referenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater than ten times the blank value..

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05084

File Name: B05084C.D

Description: METHOD BLANK

Canister:

QC_Batch: 050824-MA1

Date Sampled:

Date Analyzed: 5/8/24

Can Dilution Factor: 1.00

Air Volume: 300.00 ml

Time:

Time: 11:31

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	94	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: LABQC

Analytical Method: TO-15

Laboratory ID: B05084

File Name: B05084C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 5/8/24

Time: 11:31

Can/Tube#:

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			94	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05084

File Name: B05084C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 5/8/24

Time: 11:31

Canister:

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: LABQC

Analytical Method: TO-15

Laboratory ID: B05134

File Name: B05134C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 05/13/24

Time: 14:36

Canister:

Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL	
2037-26-5	Toluene-d8			95	70	130

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05134

File Name: B05134C.D

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 051324-MA1

Date Sampled:

Time:

Date Analyzed: 05/13/24

Time: 14:36

Can Dilution Factor: 1.00

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			95	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05134

File Name: B05134C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 05/13/24

Time: 14:36

Canister:

Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05164

File Name: B05164C.D

Description: METHOD BLANK

Canister:

QC_Batch: 051624-MA1

Date Sampled:

Date Analyzed: 05/16/24

Can Dilution Factor: 1.00

Air Volume: 300.00 ml

Time:

Time: 13:52

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	70	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05164

File Name: B05164C.D

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 051624-MA1

Date Sampled:

Time:

Date Analyzed: 05/16/24

Time: 13:52

Can Dilution Factor: 1.00

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			70	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 050824-MA1

Date: 05/08/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	89		82		70	130	8	25	
75-35-4	1,1-Dichloroethene	87		85		70	130	2	25	
75-09-2	Dichloromethane	89		94		70	130	6	25	
75-34-3	1,1-Dichloroethane	95		96		70	130	1	25	
67-66-3	Chloroform	95		99		70	130	3	25	
71-55-6	1,1,1-Trichloroethane	94		98		70	130	5	25	
107-06-2	1,2-Dichloroethane	87		91		70	130	5	25	
71-43-2	Benzene	102		102		70	130	0	25	
56-23-5	Carbon tetrachloride	94		94		70	130	0	25	
79-01-6	Trichloroethene	114		113		70	130	1	25	
108-88-3	Toluene	106		108		70	130	3	25	
106-93-4	1,2-Dibromoethane	113		115		70	130	2	25	
127-18-4	Tetrachloroethene	122		121		70	130	1	25	
100-41-4	Ethylbenzene	113		114		70	130	1	25	
1330-20-7	m,p-Xylenes	112		111		70	130	0	25	
95-47-6	o-Xylene	106		108		70	130	1	25	
108-67-8	1,3,5-Trimethylbenzene	119		119		70	130	0	25	
95-63-6	1,2,4-Trimethylbenzene	123		122		70	130	1	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 051324-MA1

Date: 05/13/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	91		79		70	130	14	25	
75-35-4	1,1-Dichloroethene	100		87		70	130	14	25	
75-09-2	Dichloromethane	104		88		70	130	16	25	
75-34-3	1,1-Dichloroethane	102		88		70	130	15	25	
67-66-3	Chloroform	111		96		70	130	15	25	
71-55-6	1,1,1-Trichloroethane	102		91		70	130	11	25	
107-06-2	1,2-Dichloroethane	97		86		70	130	11	25	
71-43-2	Benzene	100		89		70	130	11	25	
56-23-5	Carbon tetrachloride	113		106		70	130	6	25	
79-01-6	Trichloroethene	110		102		70	130	8	25	
108-88-3	Toluene	106		99		70	130	7	25	
106-93-4	1,2-Dibromoethane	127		116		70	130	9	25	
127-18-4	Tetrachloroethene	124		114		70	130	9	25	
100-41-4	Ethylbenzene	106		97		70	130	9	25	
1330-20-7	m,p-Xylenes	111		100		70	130	10	25	
95-47-6	o-Xylene	114		103		70	130	10	25	
108-67-8	1,3,5-Trimethylbenzene	104		113		70	130	8	25	
95-63-6	1,2,4-Trimethylbenzene	104		123		70	130	17	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 051624-MA1

Date: 05/16/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery		Recovery		LCL	UCL	Duplicate	Limit	
		%	Flag	%	Flag	%	%	%	%	
75-01-4	Vinyl chloride	93		97		70	130	4	25	
75-35-4	1,1-Dichloroethene	104		99		70	130	5	25	
75-09-2	Dichloromethane	108		105		70	130	3	25	
75-34-3	1,1-Dichloroethane	109		105		70	130	3	25	
67-66-3	Chloroform	113		108		70	130	5	25	
71-55-6	1,1,1-Trichloroethane	89		102		70	130	14	25	
107-06-2	1,2-Dichloroethane	93		103		70	130	11	25	
71-43-2	Benzene	91		100		70	130	10	25	
56-23-5	Carbon tetrachloride	96		110		70	130	14	25	
79-01-6	Trichloroethene	94		106		70	130	12	25	
108-88-3	Toluene	82		81		70	130	2	25	
106-93-4	1,2-Dibromoethane	86		70		70	130	20	25	
127-18-4	Tetrachloroethene	88		71		70	130	22	25	
100-41-4	Ethylbenzene	108		102		70	130	6	25	
1330-20-7	m,p-Xylenes	108		103		70	130	4	25	
95-47-6	o-Xylene	112		104		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	105		87		70	130	18	25	
95-63-6	1,2,4-Trimethylbenzene	96		93		70	130	3	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

Analytical Reports

EAS SDG Number: 224179

Project Number: 17695

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less than the RL. See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater than one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: $UG/M3 = PPBV \times MW/24.46$ where 24.46 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 01

File Name: 2417901A.D

Date Sampled: 5/2/24

Time: 09:28

Description: CT17-240502

Date Analyzed: 5/8/24

Time: 12:24

Canister: 319

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.24	0.82	3.88	6.07	
107-06-2	1,2-Dichloroethane	0.17	0.76	0.94	0.68	3.08	3.83	
71-43-2	Benzene	0.33	0.67	1.30	1.07	2.13	4.16	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	123.15	0.54	4.18	662.73	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	6.13	0.68	2.75	41.64	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	1.16	0.89	1.40	6.09	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224179

Analytical Method:

TO-15

Laboratory ID:

01

File Name: 2417901A.D

Date Sampled: 05/02/24

Time: 09:28

Description: CT17-240502

Date Analyzed: 05/08/24

Time: 12:24

Canister: 319

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	827.96	67.76	203.28	3,990.47	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 01

File Name: 2417901A.D

Date Sampled: 5/2/24

Time: 09:28

Description: CT17-240502

Date Analyzed: 5/8/24

Time: 12:24

Can/Tube#: 319

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	45.60	2.05	6.15	112.24	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 02

File Name: 2417902A.D
Description: SUB14-240502
Canister: 934
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 09:26
Date Analyzed: 05/08/24 Time: 13:02
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	4.64	0.82	3.88	22.71	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	2.60	1.07	2.13	8.30	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	9.41	0.91	4.68	51.42	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	20.87	0.68	2.75	141.74	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	1.34	0.89	1.40	7.05	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	90	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 02

File Name: 2417902A.D
Description: SUB14-240502
Canister: 934
QC_Batch: 051624-MA1

Date Sampled: 05/02/24 Time: 09:26
Date Analyzed: 05/16/24 Time: 15:10
Can Dilution Factor: 1.45
Air Volume: 2.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
79-01-6	Trichloroethene	21.8	168.8	5,540.8	117.0	908.7	29,818.0	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			83	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: 224179

Laboratory ID:

02

File Name: 2417902A.D

Date Sampled: 05/02/24

Time: 09:26

Description: SUB14-240502

Date Analyzed: 05/08/24

Time: 13:02

Canister: 934

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	95.39	67.76	203.28	459.75	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 02

File Name: 2417902A.D
Description: SUB14-240502
Can/Tube#: 934
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 09:26
Date Analyzed: 05/08/24 Time: 13:02
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			90	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 03

File Name: 2417903A.D
Description: SUB15-240502
Canister: 312
QC_Batch: 051624-MA1

Date Sampled: 05/02/24 Time: 09:41
Date Analyzed: 05/16/24 Time: 14:31
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.65	1.07	2.13	2.06	J
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	46.00	0.54	4.18	247.56	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.35	0.68	2.75	2.38	J
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	71	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224179

Analytical Method:

TO-15

Laboratory ID:

03

File Name: 2417903A.D
Description: SUB15-240502
Canister: 312
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 09:41
Date Analyzed: 05/08/24 Time: 13:40
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	44.37	67.76	203.28	213.86	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 03

File Name: 2417903A.D
Description: SUB15-240502
Can/Tube#: 312
QC_Batch: 051624-MA1

Date Sampled: 05/02/24 Time: 09:41
Date Analyzed: 05/16/24 Time: 14:31
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	2.04	2.05	6.15	5.03	J
Surrogate Recovery					% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8				71	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 04

File Name: 2417904A.D

Date Sampled: 5/2/24

Time: 13:53

Description: SUB16-240502

Date Analyzed: 5/8/24

Time: 14:19

Canister: 380

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.86	1.07	2.13	2.76	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	6.34	0.54	4.18	34.10	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	4.39	0.68	2.75	29.83	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	0.39	0.89	1.40	2.03	

				QC	Limits	Flag
Surrogate Recovery				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			101	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224179

Analytical Method:

TO-15

Laboratory ID:

04

File Name: 2417904A.D

Date Sampled: 05/02/24

Time: 13:53

Description: SUB16-240502

Date Analyzed: 05/08/24

Time: 14:19

Canister: 380

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	33.12	67.76	203.28	159.63	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 04

File Name: 2417904A.D

Date Sampled: 5/2/24

Time: 13:53

Description: SUB16-240502

Date Analyzed: 5/8/24

Time: 14:19

Can/Tube#: 380

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	7.10	2.05	6.15	17.48	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 05

File Name: 2417905A.D
Description: SUB18-240502
Canister: 387
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 10:44
Date Analyzed: 05/08/24 Time: 15:07
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.36	1.07	2.13	4.36	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	3.64	0.54	4.18	19.60	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.40	0.68	2.75	2.73	J
100-41-4	Ethylbenzene	0.35	0.88	4.86	1.53	3.83	21.15	
91-20-3	Naphthalene	0.17	0.27	0.91	0.89	1.40	4.78	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 05

File Name: 2417905A.D
Description: SUB18-240502
Can/Tube#: 387
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 10:44
Date Analyzed: 05/08/24 Time: 15:07
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	52.79	2.05	6.15	129.94	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method:

TO-15

SDG: 224179

Laboratory ID:

05

File Name: 2417905A.D
Description: SUB18-240502
Canister: 387
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 10:44
Date Analyzed: 05/08/24 Time: 15:07
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	101.84	67.76	203.28	490.84	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 06

File Name: 2417906A.D

Date Sampled: 5/2/24

Time: 11:30

Description: SUB19-240502

Date Analyzed: 5/8/24

Time: 15:45

Canister: 339

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.66	1.07	2.13	2.10	J
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	6.66	0.54	4.18	35.82	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.96	0.68	2.75	6.54	
100-41-4	Ethylbenzene	0.35	0.88	0.45	1.53	3.83	1.94	J
91-20-3	Naphthalene	0.17	0.27	0.44	0.89	1.40	2.32	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH
Analytical Method: TO-15

SDG: 224179
Laboratory ID: 06

File Name: 2417906A.D	Date Sampled: 05/02/24	Time: 11:30
Description: SUB19-240502	Date Analyzed: 05/08/24	Time: 15:45
Canister: 339	Can Dilution Factor: 1.00	
QC_Batch: 050824-MA1	Air Volume: 300 ml	

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	47.93	67.76	203.28	231.02	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 06

File Name: 2417906A.D

Date Sampled: 5/2/24

Time: 11:30

Description: SUB19-240502

Date Analyzed: 5/8/24

Time: 15:45

Can/Tube#: 339

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	11.10	2.05	6.15	27.33	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 07

File Name: 2417907A.D
Description: SUB20-240502
Canister: 359
QC_Batch: 050824-MA1

Date Sampled: 5/2/24 Time: 12:00
Date Analyzed: 5/8/24 Time: 16:22
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.00	1.07	2.13	3.20	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	30.01	0.54	4.18	161.48	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.76	0.68	2.75	5.18	
100-41-4	Ethylbenzene	0.35	0.88	0.41	1.53	3.83	1.76	J
91-20-3	Naphthalene	0.17	0.27	2.72	0.89	1.40	14.26	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 07

File Name: 2417907A.D

Date Sampled: 05/02/24

Time: 12:00

Description: SUB20-240502

Date Analyzed: 05/08/24

Time: 16:22

Canister: 359

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	31.52	67.76	203.28	151.93	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 07

File Name: 2417907A.D

Date Sampled: 5/2/24

Time: 12:00

Description: SUB20-240502

Date Analyzed: 5/8/24

Time: 16:22

Can/Tube#: 359

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	3.00	2.05	6.15	7.40	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 08

File Name: 2417908A.D
Description: SUB21-240502
Canister: 313
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 12:04
Date Analyzed: 05/08/24 Time: 17:07
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.16	0.82	3.88	5.68	
107-06-2	1,2-Dichloroethane	0.17	0.76	0.49	0.68	3.08	1.97	J
71-43-2	Benzene	0.33	0.67	1.02	1.07	2.13	3.27	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	107.68	0.54	4.18	579.47	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	9.30	0.68	2.75	63.13	
100-41-4	Ethylbenzene	0.35	0.88	0.88	1.53	3.83	3.83	J
91-20-3	Naphthalene	0.17	0.27	3.62	0.89	1.40	19.02	
Surrogate Recovery					% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8				100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 08

File Name: 2417908A.D

Date Sampled: 05/02/24

Time: 12:04

Description: SUB21-240502

Date Analyzed: 05/08/24

Time: 17:07

Canister: 313

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	685.76	67.76	203.28	3,305.16	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 08

File Name: 2417908A.D
Description: SUB21-240502
Can/Tube#: 313
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 Time: 12:04
Date Analyzed: 05/08/24 Time: 17:07
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	2.55	2.05	6.15	6.28	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 09

File Name: 2417909A.D

Date Sampled: 5/2/24

Time: 09:55

Description: SUB22-240502

Date Analyzed: 5/8/24

Time: 19:11

Canister: 393

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.30	1.07	2.13	4.16	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	43.75	0.54	4.18	235.44	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	0.81	0.91	4.68	4.42	J
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.90	0.68	2.75	6.09	
100-41-4	Ethylbenzene	0.35	0.88	0.43	1.53	3.83	1.85	J
91-20-3	Naphthalene	0.17	0.27	0.70	0.89	1.40	3.66	

				QC	Limits	Flag
Surrogate Recovery		% Rec.		LCL	UCL	
2037-26-5	Toluene-d8	92		70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 09

File Name: 2417909A.D

Date Sampled: 05/02/24

Time: 09:55

Description: SUB22-240502

Date Analyzed: 05/08/24

Time: 19:11

Canister: 393

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	21.90	67.76	203.28	105.57	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 09

File Name: 2417909A.D

Date Sampled: 5/2/24

Time: 09:55

Description: SUB22-240502

Date Analyzed: 5/8/24

Time: 19:11

Can/Tube#: 393

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	5.76	2.05	6.15	14.17	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			92	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 10

File Name: 2417910A.D

Date Sampled: 5/2/24

Time: 10:21

Description: SG10-240502-5

Date Analyzed: 5/8/24

Time: 19:50

Canister: 385

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.70	0.82	3.88	3.43	J
107-06-2	1,2-Dichloroethane	0.17	0.76	0.61	0.68	3.08	2.47	J
71-43-2	Benzene	0.33	0.67	1.30	1.07	2.13	4.15	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	108.88	0.54	4.18	585.93	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	6.54	0.91	4.68	35.72	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	6.20	0.68	2.75	42.09	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	0.48	0.89	1.40	2.51	

				QC	Limits	Flag
Surrogate Recovery		% Rec.		LCL	UCL	
2037-26-5	Toluene-d8	101		70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 10

File Name: 2417910A.D
Description: SG10-240502-5
Canister: 385
QC_Batch: 050824-MA1

Date Sampled: 05/02/24 **Time:** 10:21
Date Analyzed: 05/08/24 **Time:** 19:50
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	20.61	67.76	203.28	99.36	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 10

File Name: 2417910A.D

Date Sampled: 5/2/24

Time: 10:21

Description: SG10-240502-5

Date Analyzed: 5/8/24

Time: 19:50

Can/Tube#: 385

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	3.23	2.05	6.15	7.96	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			101	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 11

File Name: 2417911A.D

Date Sampled: 5/2/24

Time: 09:38

Description: SG10-240502-10

Date Analyzed: 5/8/24

Time: 20:28

Canister: 368

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.82	0.82	3.88	4.02	
107-06-2	1,2-Dichloroethane	0.17	0.76	1.16	0.68	3.08	4.69	
71-43-2	Benzene	0.33	0.67	1.12	1.07	2.13	3.57	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	78.74	0.54	4.18	423.76	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	16.74	0.91	4.68	91.44	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	5.60	0.68	2.75	38.03	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL	
2037-26-5	Toluene-d8			104	70	130

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 11

File Name: 2417911A.D

Description: SG10-240502-10

Canister: 368

QC_Batch: 050824-MA1

Date Sampled: 05/02/24

Date Analyzed: 05/08/24

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time: 09:38

Time: 20:28

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	31.04	67.76	203.28	149.62	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 11

File Name: 2417911A.D

Date Sampled: 5/2/24

Time: 09:38

Description: SG10-240502-10

Date Analyzed: 5/8/24

Time: 20:28

Can/Tube#: 368

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	22.87	2.05	6.15	56.30	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			104	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 12

File Name: 2417912A.D

Date Sampled: 5/2/24

Time: 13:59

Description: SG11-240502-10

Date Analyzed: 5/8/24

Time: 21:18

Canister: 300

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	2.13	1.07	2.13	6.81	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	5.44	0.54	4.18	29.30	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	0.94	0.91	4.68	5.15	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	10.61	0.68	2.75	72.07	
100-41-4	Ethylbenzene	0.35	0.88	0.86	1.53	3.83	3.73	J
91-20-3	Naphthalene	0.17	0.27	0.38	0.89	1.40	1.98	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			87	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 12

File Name: 2417912A.D

Date Sampled: 05/02/24

Time: 13:59

Description: SG11-240502-10

Date Analyzed: 05/08/24

Time: 20:18

Canister: 300

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	64.59	67.76	203.28	311.32	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 12

File Name: 2417912A.D

Date Sampled: 5/2/24

Time: 13:59

Description: SG11-240502-10

Date Analyzed: 5/8/24

Time: 21:18

Can/Tube#: 300

Can Dilution Factor: 1.00

QC_Batch: 050824-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	28.86	2.05	6.15	71.04	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			87	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 13

File Name: 2417913A.D

Date Sampled: 05/02/24

Time: 12:38

Description: SG12-240502-5

Date Analyzed: 05/13/24

Time: 19:30

Canister: 338

Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.61	0.82	3.88	2.97	J
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.18	1.07	2.13	3.77	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	26.50	0.54	4.18	142.60	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	4.43	0.68	2.75	30.11	
100-41-4	Ethylbenzene	0.35	0.88	0.39	1.53	3.83	1.70	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224179

Analytical Method:

TO-15

Laboratory ID:

13

File Name: 2417913A.D

Date Sampled: 05/02/24

Time: 12:38

Description: SG12-240502-5

Date Analyzed: 05/13/24

Time: 19:30

Canister: 338

Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	27.06	67.76	203.28	130.42	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 13

File Name: 2417913A.D

Date Sampled: 05/02/24

Time: 12:38

Description: SG12-240502-5

Date Analyzed: 05/13/24

Time: 19:30

Can/Tube#: 338

Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	3.98	2.05	6.15	9.79	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224179

Analytical Method: TO-15

Laboratory ID: 14

File Name: 2417914A.D

Date Sampled: 05/02/24

Time: 11:47

Description: SG12-240502-10

Date Analyzed: 05/13/24

Time: 20:08

Canister: 347

Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.86	0.82	3.88	4.21	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.51	1.07	2.13	4.82	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	4.47	0.54	4.18	24.07	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	4.18	0.68	2.75	28.39	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	0.30	0.89	1.40	1.59	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL	
2037-26-5	Toluene-d8			99	70	130

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 14

File Name: 2417914A.D

Date Sampled: 05/02/24

Time: 11:47

Description: SG12-240502-10

Date Analyzed: 05/13/24

Time: 20:08

Canister: 347

Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	39.33	67.76	203.28	189.55	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224179

Laboratory ID: 14

File Name: 2417914A.D

Date Sampled: 05/02/24

Time: 11:47

Description: SG12-240502-10

Date Analyzed: 05/13/24

Time: 20:08

Can/Tube#: 347

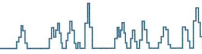
Can Dilution Factor: 1.00

QC_Batch: 051324-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	29.88	2.05	6.15	73.55	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			99	70	130	



Friday, May 31, 2024

Sample Delivery Group (SDG) 224185
EAS Project Number: 17695

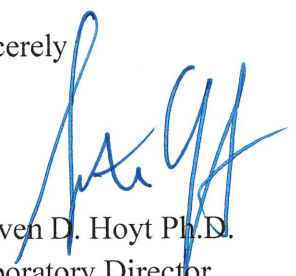
Lynn Green
Evren Northwest Inc.
40 SE 24th Avenue, Suite A
Portland, OR 97214

Lynn,

Enclosed is the analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following Project.

Client Project Name: Irwin Hodson (186-19002-07)
PO Number: 186-19002-07
Client Project Number: 186-19002-07
Sample Event Date: 5/3/2024

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely

Steven D. Hoyt Ph.D.
Laboratory Director

SDH/LIMS

Analytical Report

Project Name:

Irwin Hodson (186-19002-07)

EAS SDG Number: 224185

Client Project Manager: Lynn Green

Prepared For:

Evren Northwest Inc.

40 SE 24th Avenue, Suite A

Portland

OR 97214

Project Number: 17695

Sample Event Date: 5/3/2024

Received Date: 5/7/2024

Report Date: 5/31/2024

Project Number: 186-19002-07

PO Number: 186-19002-07

This is the Laboratory Report for the samples in the indicated Sample Delivery Group (SDG). Each sample received in the group is assigned a Laboratory ID number. The combination of the SDG number and the Lab ID number is an unique identifier for the sample.

This Report Contains:

Laboratory Work Order

Project Sample Media

Laboratory Case Narrative and Chain of Custody

Method Description (when applicable)

Quality Control Reports

Analytical Reports

NELAC Certification: Florida E871125

173 Cross Street, San Luis Obispo, CA 93401 (805) 781-3585

Laboratory Work Order

SDG Number: 224185

Project Number: 17695

Client: Lynn Green

Received: 5/7/2024

Evren Northwest Inc.

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
SUB13-240503	224185 1	EPA TO-15 Special and GRO + IPA	5/3/2024
SUB17-240503	224185 2	EPA TO-15 Special and GRO + IPA	5/3/2024
SG13-240503-5	224185 3	EPA TO-15 Special and GRO + IPA	5/3/2024
SG13-240503-10	224185 4	EPA TO-15 Special and GRO + IPA	5/3/2024
SG11-240503-5	224185 5	EPA TO-15 Special and GRO + IPA	5/3/2024
SG14-240503	224185 6	EPA TO-15 Special and GRO + IPA	5/3/2024
SSD01-VENT-240503	224185 7	EPA TO-15 Special and GRO	5/3/2024
SSD02-VENT-240503	224185 8	EPA TO-15 Special and GRO	5/3/2024

Project Sample Media

SDG Number: 224185

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. The initial pressure of the canister when it is received is recorded. If the canister is not pressurized, the final pressure will be the same as the initial pressure. If the canister is pressurized the final pressure will be recorded, and the canister dilution factor is calculated as the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample Media	Batch	Pressure, torr		Can Factor
					Initial	Final	
224185	1	SUB13-240503	330		714	714	1.00
224185	2	SUB17-240503	335		672	672	1.00
224185	3	SG13-240503-5	383		745	745	1.00
224185	4	SG13-240503-10	356		729	729	1.00
224185	5	SG11-240503-5	334		658	658	1.00
224185	6	SG14-240503	355		673	673	1.00
224185	7	SSD01-VENT-240503	314		678	678	1.00
224185	8	SSD02-VENT-240503	341		707	707	1.00

Laboratory Case Narrative

EAS SDG Number: 224185

Project Number: 17695

Client: Evren Northwest Inc.

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Laboratory Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Analytical Methods

The methods used for sample analysis are listed on the Analytical Report header, and have been modified as described in the EAS Quality Manual..

Case Narrative

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 5/31/2024

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

ENVIRONMENTAL

Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA 93401
805 781-3585

CHAIN OF CUSTODY RECORD

Project Number 186-19002-07		Project Name		Quote 7695		Requested TAT Standard												
REPORT TO:							Analytical Tests											
Attention Lynn Green		Company Essex Northwest		Address Po Box 14488		City, State, Zip Portland OR												
Phone/Fax 503 452-5561		e-mail lynn@g-essex-nw.com		Matrix		A - Ambient Air												
				SG - Soil Gas		S - Source												
				I - Indoor Air		SDG 224185												
Sample Description	Sample Date	Start Time	Stop Date	Stop Time	Canister Number	Flow Reg Number	Matrix	Initial Pressure	Final Pressure	Laboratory ID	TCE, PCE, GPO	EDS EDC	Benzene	Emybenzene	1,1,2 trichloroethene	Carbon tetrachloride	Chloroform	Comments
SUB13-240503	5/3/24	832	5/03/24	902	330	2569	SG	730	9	01	X	X	X	X	X	X	X	
SUB17-240503	"	901	"	928	335	2627	"	27	4	02	X	X	X	X	X	X	X	
SG13-240503-5	"	942	"	1012	383	2555	"	730	5	03	X	X	X	X	X	X	X	
SG13-240503-10	"	842	"	945	356	2602	"	30	5	04	X	X	X	X	X	X	X	
SG11-240503-5	"	846	"	911	334	2512	"	28	5	05	X	X	X	X	X	X	X	
SG14-240503	"	10:10	"	10:36	355	2558	"	730	7	06	X	X	X	X	X	X	X	
SSD01-VENT-240503	"	11:47	"	12:32	314	2605	S	730	5	07	X							TIME 12:32 TCE ONLY
SSD02-VENT-240503	"	11:37	"	12:30	341	2645	S	730	5	08	X							TCE ONLY
Comments																		
TCE only on SSD01 and SSD02																		
BILLING INFORMATION:							SAMPLED BY		Date/Time									
ATTENTION		Leslie Demuthoff					[Signature]		5/3/24		COC Number							
Company		ENW							17:00		Cooler Temp							
Address		"									Airbill							
City, State, Zip		"					RECEIVED FOR LAB											
Purchase Order		186-19002-07					[Signature]		5/7/2024									

21200

Quality Control Report

EAS SDG Number: 224185

Project Number: 17695

QC Narrative

Samples were analyzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual which may be different than the referenced agency method. Any deviations from the EAS QC criteria are flagged in the Laboratory Control Reports or in the sample Analytical Reports.

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

The method blank is a laboratory generated sample which assesses the degree to which laboratory operations cause a false positive. The target analytes in the analytical reports for a daily analytical batch are "B" flagged if their concentrations are present in the Method Blank above the RL, unless the result is greater than ten times the blank value.

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: LABQC

Analytical Method:

TO-15

Laboratory ID: B05204

File Name: B05204C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 05/20/24

Time: 11:21

Canister:

Can Dilution Factor: 1.00

QC_Batch: 052024-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

				QC	Limits	Flag
Surrogate Recovery				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			92	70 130	

METHOD BLANK REPORT



EPA Method TO-15 Modified TPH
Analytical Method: TO-15

SDG: LABQC
Laboratory ID: B05204

File Name: B05204C.D	Date Sampled:	Time:
Description: METHOD BLANK	Date Analyzed: 05/20/24	Time: 11:21
Canister:	Can Dilution Factor: 1.00	
QC_Batch: 052024-MA1	Air Volume: 300	ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05204

File Name: B05204C.D

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 052024-MA1

Date Sampled:

Time:

Date Analyzed: 05/20/24

Time: 11:21

Can Dilution Factor: 1.00

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			92	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05224

File Name: B05224C.D

Description: METHOD BLANK

Canister:

QC_Batch: 052224-MA1

Date Sampled:

Date Analyzed: 05/22/24

Can Dilution Factor: 1.00

Air Volume: 300.00 ml

Time:

Time: 11:58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	95	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05224

File Name: B05224C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 05/22/24

Time: 11:58

Canister:

Can Dilution Factor: 1.00

QC_Batch: 052224-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05224

File Name: B05224C.D

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 052224-MA1

Date Sampled:

Date Analyzed: 05/22/24

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time:

Time: 11:58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			95	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: LABQC

Analytical Method: TO-15

Laboratory ID: B05244

File Name: B05244C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 05/24/24

Time: 11:58

Canister:

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	ND	1.07	2.13	ND	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	ND	0.68	2.75	ND	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

				QC	Limits	Flag
Surrogate Recovery				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			93	70 130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05244

File Name: B05244C.D

Date Sampled:

Time:

Description: METHOD BLANK

Date Analyzed: 05/24/24

Time: 11:15

Canister:

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: LABQC

Laboratory ID: B05244

File Name: B05244C.D

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 052424-MA1

Date Sampled:

Date Analyzed: 05/24/24

Can Dilution Factor: 1.00

Air Volume: 300 ml

Time:

Time: 11:58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			93	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 052024-MA1

Date: 05/20/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery		Recovery		LCL	UCL	Duplicate	Limit	
		%	Flag	%	Flag	%	%	%	%	
75-01-4	Vinyl chloride	107		114		70	130	7	25	
75-35-4	1,1-Dichloroethene	112		112		70	130	0	25	
75-09-2	Dichloromethane	99		112		70	130	12	25	
75-34-3	1,1-Dichloroethane	97		113		70	130	15	25	
67-66-3	Chloroform	99		117		70	130	17	25	
71-55-6	1,1,1-Trichloroethane	102		110		70	130	7	25	
107-06-2	1,2-Dichloroethane	103		109		70	130	6	25	
71-43-2	Benzene	113		92		70	130	20	25	
56-23-5	Carbon tetrachloride	104		116		70	130	11	25	
79-01-6	Trichloroethene	120		94		70	130	24	25	
108-88-3	Toluene	87		106		70	130	20	25	
106-93-4	1,2-Dibromoethane	91		115		70	130	23	25	
127-18-4	Tetrachloroethene	82		98		70	130	17	25	
100-41-4	Ethylbenzene	104		112		70	130	8	25	
1330-20-7	m,p-Xylenes	104		115		70	130	10	25	
95-47-6	o-Xylene	104		118		70	130	12	25	
108-67-8	1,3,5-Trimethylbenzene	103		114		70	130	10	25	
95-63-6	1,2,4-Trimethylbenzene	107		113		70	130	5	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 052224-MA1

Date: 5/22/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	116		119		70	130	3	25	
75-35-4	1,1-Dichloroethene	101		129		70	130	24	25	
75-09-2	Dichloromethane	99		93		70	130	6	25	
75-34-3	1,1-Dichloroethane	98		99		70	130	1	25	
67-66-3	Chloroform	100		123		70	130	20	25	
71-55-6	1,1,1-Trichloroethane	107		105		70	130	2	25	
107-06-2	1,2-Dichloroethane	107		105		70	130	2	25	
71-43-2	Benzene	94		93		70	130	1	25	
56-23-5	Carbon tetrachloride	111		107		70	130	3	25	
79-01-6	Trichloroethene	90		88		70	130	2	25	
108-88-3	Toluene	91		89		70	130	2	25	
106-93-4	1,2-Dibromoethane	86		84		70	130	2	25	
127-18-4	Tetrachloroethene	82		79		70	130	4	25	
100-41-4	Ethylbenzene	89		90		70	130	1	25	
1330-20-7	m,p-Xylenes	88		88		70	130	0	25	
95-47-6	o-Xylene	85		86		70	130	1	25	
108-67-8	1,3,5-Trimethylbenzene	77		78		70	130	1	25	
95-63-6	1,2,4-Trimethylbenzene	80		80		70	130	0	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

Laboratory Control Spike and Spike Duplicate Report

TO15 Volatile Organic Compounds by GC/MS

QC_Batch: 052424-MA1

Date: 5/24/24

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		Flag
		Recovery		Recovery		LCL	UCL	Duplicate	Limit	
		%	Flag	%	Flag	%	%	%	%	
75-01-4	Vinyl chloride	102		120		70	130	16	25	
75-35-4	1,1-Dichloroethene	98		115		70	130	15	25	
75-09-2	Dichloromethane	96		99		70	130	3	25	
75-34-3	1,1-Dichloroethane	96		99		70	130	4	25	
67-66-3	Chloroform	99		102		70	130	3	25	
71-55-6	1,1,1-Trichloroethane	106		111		70	130	5	25	
107-06-2	1,2-Dichloroethane	103		106		70	130	3	25	
71-43-2	Benzene	97		100		70	130	3	25	
56-23-5	Carbon tetrachloride	108		115		70	130	6	25	
79-01-6	Trichloroethene	98		101		70	130	3	25	
108-88-3	Toluene	94		98		70	130	4	25	
106-93-4	1,2-Dibromoethane	92		99		70	130	8	25	
127-18-4	Tetrachloroethene	110		95		70	130	15	25	
100-41-4	Ethylbenzene	100		88		70	130	12	25	
1330-20-7	m,p-Xylenes	98		86		70	130	13	25	
95-47-6	o-Xylene	97		84		70	130	15	25	
108-67-8	1,3,5-Trimethylbenzene	88		74		70	130	18	25	
95-63-6	1,2,4-Trimethylbenzene	90		71		70	130	24	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limits

Analytical Reports

EAS SDG Number: 224185

Project Number: 17695

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications, QC modifications, QC Criteria modifications, target lists, definitions of detection limits, and flags are all explained in detail in the EAS Quality Manual. The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

NELAC CERTIFICATION

EAS is accredited by the National Environmental Laboratory Accreditation (NELAC) with the Florida Department of Health, one of the NELAC certifying states. EAS is certified for the EPA TO-15, EPA TO-11 and EPA TO-4 methods. A list of accredited compounds is available on request.

DETECTION LIMITS

MDL: The MDL is lowest concentration that can be measured to be statistically above the noise level and is determined using the EPA 2016 method which uses the standard deviation of replicate measurements made over time. The method also incorporates systematic instrumentation blank levels. See Quality Manual for detailed explanation.

RL: The reporting limit (RL) is the lowest concentration that can be reliably reported for each compound that meets the QC Criteria for the method, background levels, or project specific considerations. The QC criteria level for the method blank is to be less than the RL. See Quality Manual for more information.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags.

B - This compound was detected in the batch method blank above the reporting limit and is greater than one tenth the amount in the sample.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and could be below the lowest calibration point, have higher uncertainty, or could be the result of system background

SIGNIFICANT FIGURES

Based on the uncertainty in the methods, the numbers on the Analytical Reports should be used with only two significant digits. Additional significant figures are reported for ease of use and to avoid rounding errors when used in further calculations.

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure.

UG/M3 OR MG/M3: The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: $UG/M3 = PPBV \times MW/24.46$ where 24.46 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 01

File Name: 2418501A.D

Date Sampled: 05/03/24

Time: 08:32

Description: SUB13-240503

Date Analyzed: 05/20/24

Time: 20:31

Canister: 330

Can Dilution Factor: 1.00

QC_Batch: 052024-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.19	0.82	3.88	0.95	J
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.62	1.07	2.13	2.00	J
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	14.99	0.54	4.18	80.65	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.80	0.68	2.75	5.44	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	113	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224185

Laboratory ID: 01

File Name: 2418501A.D

Date Sampled: 05/03/24

Time: 08:32

Description: SUB13-240503

Date Analyzed: 05/20/24

Time: 20:31

Canister: 330

Can Dilution Factor: 1.00

QC_Batch: 052024-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	18.29	67.76	203.28	88.17	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 01

File Name: 2418501A.D

Date Sampled: 05/03/24

Time: 08:32

Description: SUB13-240503

Date Analyzed: 05/20/24

Time: 20:31

Can/Tube#: 330

Can Dilution Factor: 1.00

QC_Batch: 052024-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	5.40	2.05	6.15	13.28	
Surrogate Recovery					% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8				113	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 02

File Name: 2418502A.D

Date Sampled: 05/03/24

Time: 09:01

Description: SUB17-240503

Date Analyzed: 05/20/24

Time: 20:06

Canister: 335

Can Dilution Factor: 1.00

QC_Batch: 052024-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.25	0.82	3.88	1.22	J
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	5.34	1.07	2.13	17.10	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	ND	0.54	4.18	ND	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.32	0.68	2.75	2.19	J
100-41-4	Ethylbenzene	0.35	0.88	3.58	1.53	3.83	15.56	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

				QC	Limits	Flag
Surrogate Recovery		% Rec.		LCL	UCL	
2037-26-5	Toluene-d8	97		70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified TPH
Analytical Method: TO-15

SDG: 224185
Laboratory ID: 02

File Name: 2418502A.D
Description: SUB17-240503
Canister: 335
QC_Batch: 052024-MA1

Date Sampled: 05/03/24
Date Analyzed: 05/20/24
Can Dilution Factor: 1.00
Air Volume: 300 ml

Time: 09:01
Time: 20:06

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	311.69	67.76	203.28	1,502.24	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224185

Laboratory ID: 02

File Name: 2418502A.D

Date Sampled: 05/03/24

Time: 09:01

Description: SUB17-240503

Date Analyzed: 05/20/24

Time: 20:06

Can/Tube#: 335

Can Dilution Factor: 1.00

QC_Batch: 052024-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	4.08	2.05	6.15	10.03	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 03

File Name: 2418503A.D
Description: SG13-240503-5
Canister: 383
QC_Batch: 052224-MA1

Date Sampled: 05/03/24 Time: 09:42
Date Analyzed: 05/22/24 Time: 15:04
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	2.34	0.82	3.88	11.43	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.10	1.07	2.13	3.52	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	109.10	0.54	4.18	587.13	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	8.73	0.91	4.68	47.68	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	8.14	0.68	2.75	55.24	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

Analytical Method: TO-15

SDG: 224185

Laboratory ID: 03

File Name: 2418503A.D
Description: SG13-240503-5
Canister: 383
QC_Batch: 052224-MA1

Date Sampled: 05/03/24 Time: 09:42
Date Analyzed: 05/22/24 Time: 15:04
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	94.40	67.76	203.28	454.96	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224185

Laboratory ID: 03

File Name: 2418503A.D

Date Sampled: 05/03/24

Time: 09:42

Description: SG13-240503-5

Date Analyzed: 05/22/24

Time: 15:04

Can/Tube#: 383

Can Dilution Factor: 1.00

QC_Batch: 052224-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	10.53	2.05	6.15	25.93	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			97	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 04

File Name: 2418504A.D

Date Sampled: 05/03/24

Time: 08:42

Description: SG13-240503-10

Date Analyzed: 05/22/24

Time: 15:41

Canister: 356

Can Dilution Factor: 1.00

QC_Batch: 052224-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.68	0.82	3.88	8.20	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.73	1.07	2.13	2.33	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	37.05	0.54	4.18	199.39	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	2.55	0.91	4.68	13.95	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	3.74	0.68	2.75	25.40	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	94	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified TPH
Analytical Method: TO-15

SDG: 224185
Laboratory ID: 04

File Name: 2418504A.D
Description: SG13-240503-10
Canister: 356
QC_Batch: 052224-MA1
Date Sampled: 05/03/24
Date Analyzed: 05/22/24
Can Dilution Factor: 1.00
Air Volume: 300 ml
Time: 08:42
Time: 15:41

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

Analytical Method: TO-15

SDG: 224185

Laboratory ID: 04

File Name: 2418504A.D

Date Sampled: 05/03/24

Time: 08:42

Description: SG13-240503-10

Date Analyzed: 05/22/24

Time: 15:41

Can/Tube#: 356

Can Dilution Factor: 1.00

QC_Batch: 052224-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	9.49	2.05	6.15	23.37	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			94	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 05

File Name: 2418505A.D
Description: SG11-240503-5
Canister: 334
QC_Batch: 052224-MA1

Date Sampled: 05/03/24 Time: 08:46
Date Analyzed: 05/22/24 Time: 16:19
Can Dilution Factor: 1.00
Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	ND	0.82	3.88	ND	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.61	1.07	2.13	1.94	J
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	7.75	0.54	4.18	41.69	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	20.61	0.68	2.75	139.95	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224185

Analytical Method:

TO-15

Laboratory ID:

05

File Name: 2418505A.D

Date Sampled: 05/03/24

Time: 08:46

Description: SG11-240503-5

Date Analyzed: 05/22/24

Time: 16:19

Canister: 334

Can Dilution Factor: 1.00

QC_Batch: 052224-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	ND	67.76	203.28	ND	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 05

File Name: 2418505A.D

Date Sampled: 05/03/24

Time: 08:46

Description: SG11-240503-5

Date Analyzed: 05/22/24

Time: 16:19

Can/Tube#: 334

Can Dilution Factor: 1.00

QC_Batch: 052224-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	66.70	2.05	6.15	164.18	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 06

File Name: 2418506A.D

Date Sampled: 05/03/24

Time: 10:10

Description: SG14-240503

Date Analyzed: 05/24/24

Time: 16:24

Canister: 355

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	1.08	0.82	3.88	5.28	
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	0.85	1.07	2.13	2.71	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	5.84	0.54	4.18	31.43	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	4.51	0.68	2.75	30.66	
100-41-4	Ethylbenzene	0.35	0.88	0.41	1.53	3.83	1.77	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	74	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 06

File Name: 2418506A.D

Date Sampled: 05/03/24

Time: 10:10

Description: SG14-240503

Date Analyzed: 05/24/24

Time: 16:24

Canister: 355

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	63.83	67.76	203.28	307.66	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 06

File Name: 2418506A.D
Description: SG14-240503
Can/Tube#: 355
QC_Batch: 052424-MA1

Date Sampled: 05/03/24 Time: 10:10
Date Analyzed: 05/24/24 Time: 16:24
Can Dilution Factor: 1.00
Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-63-0	2-propanol (Isopropyl Alcohol)	0.83	2.50	ND	2.05	6.15	ND	

Surrogate Recovery				% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8			74	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 07

File Name: 2418507A.D

Date Sampled: 05/03/24

Time: 11:47

Description: SSD01-VENT-240503

Date Analyzed: 05/24/24

Time: 17:08

Canister: 314

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.25	0.82	3.88	1.25	J
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.08	1.07	2.13	3.44	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	21.53	0.54	4.18	115.87	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	1.62	0.68	2.75	10.98	
100-41-4	Ethylbenzene	0.35	0.88	ND	1.53	3.83	ND	
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery		% Rec.	QC LCL	Limits UCL	Flag
2037-26-5	Toluene-d8	95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 07

File Name: 2418507A.D

Date Sampled: 05/03/24

Time: 11:47

Description: SSD01-VENT-240503

Date Analyzed: 05/24/24

Time: 17:08

Canister: 314

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	32.18	67.76	203.28	155.11	J

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS

SDG: 224185

Analytical Method: TO-15

Laboratory ID: 08

File Name: 2418508A.D

Date Sampled: 05/03/24

Time: 11:37

Description: SSD02-VENT-240503

Date Analyzed: 05/24/24

Time: 17:48

Canister: 341

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300.00 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
67-66-3	Chloroform	0.17	0.79	0.21	0.82	3.88	1.01	J
107-06-2	1,2-Dichloroethane	0.17	0.76	ND	0.68	3.08	ND	
71-43-2	Benzene	0.33	0.67	1.80	1.07	2.13	5.76	
56-23-5	Carbon tetrachloride	0.15	0.79	ND	0.94	4.98	ND	
79-01-6	Trichloroethene	0.10	0.78	24.05	0.54	4.18	129.41	
79-00-5	1,1,2-Trichloroethane	0.17	0.86	ND	0.91	4.68	ND	
106-93-4	1,2-Dibromoethane	0.17	0.40	ND	1.28	3.11	ND	
127-18-4	Tetrachloroethene	0.10	0.41	0.63	0.68	2.75	4.27	
100-41-4	Ethylbenzene	0.35	0.88	0.35	1.53	3.83	1.54	J
91-20-3	Naphthalene	0.17	0.27	ND	0.89	1.40	ND	

Surrogate Recovery				QC	Limits	Flag
				% Rec.	LCL UCL	
2037-26-5	Toluene-d8			102	70 130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified TPH

SDG: 224185

Analytical Method:

TO-15

Laboratory ID: 08

File Name: 2418508A.D

Date Sampled: 05/03/24

Time: 11:37

Description: SSD02-VENT-240503

Date Analyzed: 05/24/24

Time: 17:48

Canister: 341

Can Dilution Factor: 1.00

QC_Batch: 052424-MA1

Air Volume: 300 ml

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
1330-20-7	GRO	13.33	40.00	14.19	67.76	203.28	68.39	J