TECHNICAL MEMORANDUM

To:	Don Hanson, Oregon DEQ
From:	Guy Tanz and Paul McBeth
Date:	June 14, 2024
Subject:	April 2024 On-Site Soil Gas Investigation Results Springvilla Dry Cleaner DEQ ECSI No. 459

PNG Environmental Inc. (PNG) has prepared a technical memorandum for the Springvilla Dry Cleaner located at 1459 Mohawk Boulevard, in Springfield, Oregon (Figures 1 and 2). This memorandum summarizes initial results of supplemental soil gas sampling and analysis to meet the Oregon Department of Environmental Quality's (DEQ's) requirement to determine the nature and extent of residual dry cleaning solvent contamination at the site (DEQ 2019). Specifically DEQ requested expansion of the soil gas monitoring network to further evaluate potential impacts soil gas could present to existing mixed-use zoning (i.e., residential and/or commercial uses) (DEQ 2023a).

The supplemental soil gas investigation data was completed to support assessment of the current and future potential for vapor intrusion to buildings and support updating the site conceptual site model (CSM). The CSM is necessary for completion of the human health risk assessment that will be used to support the feasibility study and selection of a final remedy. The onsite soil gas investigation is being conducted under the DEQ Voluntary Cleanup Program (VCP) Letter Agreement with McKay (DEQ 2011).

BACKGROUND

Site Conditions and Recent Investigations

The results of more-recent site conditions and investigations are provided in greater detail in the work plan (PNG 2024). Results are briefly described below for clarity.

In 2019, 2020, and 2021, on-site investigations were required by Oregon DEQ as part of focused remedial investigation (RI) activities to determine if there were areas of residual dry cleaning contamination in soil, soil gas, and/or shallow groundwater that could present current or future unacceptable risk (DEQ 2019). DEQ requested investigation of soil, soil gas, and shallow groundwater where current or future development, consistent with the zoned mixed-use property use, may occur.

On-site investigations consisted of installation of nineteen borings (i.e., PNG-1 through PNG-19) for the collection of soil and temporary well point groundwater samples (PNG 2020 and 2021) (Figures 3 and 4). Thirteen vapor pins (i.e., SG-1 through SG-13) were also installed for characterization of shallow soil gas (PNG 2019) (Figure 5).

On-site groundwater data indicated a pattern of contaminant migration into the intermediate zone within a short distance from the Springvilla source area (Figure 4). The pattern of the highest contaminant concentrations in the intermediate-zone depth

interval were consistent with off-site findings where the tetrachloroethene (PCE) and trichloroethene (TCE) groundwater plume is located within a broader intermediate-zone depth between 40 to 60 feet below ground surface (bgs) throughout the locality of facility.

PCE was detected in sub-slab soil gas at all vapor pin locations during both the May 2019 (high groundwater) and August 2019 (low groundwater) events; TCE was generally not detected (Table 1; Figure 5). The pattern of PCE detections were consistent with residual contamination identified in soil and groundwater in the source area (Figures 3, 4, and 5). Higher concentrations of PCE were detected at five of the thirteen vapor pins located in proximity to the former Springvilla dry cleaner and in a west-southwesterly direction away from the former dry cleaner consistent with shallow groundwater flow (Figure 5).

Regulatory Framework and Preliminary Screening

DEQ first developed their Risk Based Decision Making (RBDM) guidance for comparing Contaminants of Interest (COI) concentrations to default RBCs for applicable human health exposure scenarios in 2003. These RBCs replaced Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs) as screening criteria in human health risk assessments. Published RBC tables are updated periodically by DEQ; with the most recent update relevant to Springvilla published in 2023 (DEQ 2023).

In the 2009 revision to its RBC tables, DEQ included soil gas and indoor air RBCs for residential, urban, and occupational settings. DEQ also published final guidance for vapor intrusion assessments (DEQ 2010) and issued air and soil vapor RBC values which have been revised over time. In June 2023 Oregon DEQ updated their vapor intrusion RBC screening levels to be more consistent with current science and EPA's Vapor Intrusion Screening Level calculator. With the 2023 RBC update, DEQ maintained vapor intrusion RBCs for groundwater and soil gas, but no longer for soil. Consequently, potential vapor intrusion from soil is now evaluated by direct soil gas measurement. The updated DEQ vapor intrusion RBC receptors were also modified; while residential and commercial (formerly occupational) receptors were retained the urban residential receptor scenario was eliminated.

Screening of the 2019, 2020, and 2021 on-site source area investigation data relative to Oregon DEQ's updated vapor intrusion RBCs indicated the following:

- Volatilization of chemicals from subsurface soil or groundwater to indoor and outdoor air is a complete pathway for the Springvilla property as workers or potential future residents could potentially be exposed in indoor and outdoor air (Figures 3 and 4).
- The on-site source area investigations in 2020 and 2021 evaluated both source area soil and groundwater for potential vapor intrusion concerns (PNG 2020 and 2021). Shallow source-area groundwater investigation samples, including temporary well point borings and existing well installations, indicated the highest concentrations of shallow-groundwater target compounds were detected at six locations in proximity to the former dry cleaner location and interim remedial action measure (IRAM) excavation (i.e., IN-1s, and PNG-3, -9, -10 -12 and -16 [PNG 2021]) (Figure 4). Concentrations of PCE ranged from 3.5 to 502 ug/L

and TCE ranged from not-detect to 461 ug/L. Screening of these on-site source area results using the updated DEQ vapor intrusion RBCs (DEQ 2023) indicates multiple exceedances for both a residential and commercial groundwater vapor intrusion pathway. The detectable shallow-zone groundwater plume on the Mohawk Shopping Center property has been characterized and is primarily located beneath the former Waremart building (Figure 4).

- Soil quality samples collected from some of these same borings during the 2020 investigation were well below then established DEQ occupational RBCs. The highest concentration of soil contamination was identified in boring PNG-6 (below now-applicable RBCs). However, DEQ has eliminated both residential and occupational RBCs for vapor intrusion to buildings, using soil quality in lieu of updated RBCs using soil gas characterization. Screening of 2019 soil gas results from the soil vapor pin network established at the site indicate multiple exceedances of the updated DEQ RBCs for both residential and commercial vapor intrusion pathways (Figure 5). These exceedances were primarily located to the south, southwest, and east of the former Springvilla dry cleaner (Figure 5).

Considering the mixed-use zoning of the Springvilla and larger Mohawk shopping center and revised vapor intrusion RBCs, DEQ requested further characterization to further delineate the horizontal extent of the residual soil gas vapor plume at the site and evaluation for potential vertical variations between shallow gravel fill and underlying silt soil.

SUPPLEMENTAL SOIL GAS CHARACTERIZATION PLAN AND OBJECTIVES

The soil gas vapor sampling network expansion was completed in a phased approach for a more focused and efficient site characterization. Subsequent phases, if necessary, would concentrate only on those areas where additional data were necessary to achieve investigation objectives.

The primary objective of the investigation was to characterize the lateral residual soil gas vapor plume in one event, if possible. As such, Phase 1 of the investigation focused on lateral delineation using shallow vapor pins. At DEQ's request, a limited number of deeper vapor wells were also co-located with select shallow vapor pin locations to evaluate variations between the underlying silt in comparison to the overlying gravel fill. This technical memorandum summarizes the first phase (Phase 1) of the soil gas network expansion and sampling.

All activities were conducted in accordance with PNG's initial work plan (PNG 2023) that was revised to address DEQ comments (DEQ 2023b) including their request for addition of limited vertical (deeper) soil gas characterization in focused locations at the site. The DEQ requests were then incorporated into an updated work plan (PNG 2024) and approved by the agency (DEQ 2024).

FIELD ACTIVITIES

The soil gas vapor pin network was expanded and deep soil gas wells were installed on February 27 and 28, 2024 (Figure 6). The network expansion involved installation of an additional twelve (12) shallow vapor pin points (i.e., SG-14 through SG-25) to delineate the extent of the residual soil vapor plume. At DEQ's request an additional seven deep vapor wells (i.e., SG-1D, SG-2D, SG-4D, SG-6D, SG-12D, SG16D, and SG-19D) were

co-located with shallow vapor pins to evaluate soil gas variation between underlying silt and the overlying gravel fill. Of the seven new deep vapor wells, four (i.e., SG-1D, SG-2D, SG-4D, and SG-6D) were co-located with existing vapor pins within the footprint of the former Waremart concrete floor while the remaining three (i.e., SG-12D, SG-16D, and SG-19D) were co-located with new shallow vapor pins located in asphalt-concrete surfaced areas (Figure 6). The terminal sampling depth of deep vapor wells was 3.5 feet below ground surface (bgs) placing them approximately one foot above highest wet season groundwater and at least one foot below the gravel fill/silt contact in the underlying silt soil.

Soil gas sampling was completed on April 2, 3, 4, and 16, 2024. The timing of this sampling event corresponds to relatively higher groundwater elevations at the site. Soil gas sampling results are summarized on Table 1 and illustrated on Figure 6. Deep soil gas well logs are included in Attachment A. Soil gas sampling logs are in Attachment B. Soil gas laboratory reports and chain-of-custody documentation are in Attachment C.

RESULTS

PCE was detected at all shallow vapor pin and deeper soil gas well locations during the April 2024 (high groundwater) event. TCE was also detected at various locations, typically within the primary vapor plume area (Figure 6). The pattern of PCE detections is indicative of residual contamination at the source area. Specifically, higher concentrations of PCE had, or were, detected at nine of thirty-two (32) locations (namely SG-1, 1D, 2, 2D, 3, 4, 4D, 10, and 14) located at the former Springvilla and in a west-southwesterly direction away from the facility consistent with shallow groundwater flow (Figures 4 and 6). PCE concentrations at these locations ranged between 620 micrograms per cubic meter (ug/m^3) (SG-4) up to a maximum 13,000 ug/m^3 (SG-1D). It is notable that soil gas concentrations in deeper soil gas wells were comparatively higher to co-located shallow soil vapor pins in closer proximity to the Springvilla (i.e., SG-1/1D, SG2/2D, and SG-4/4D) (Figure 6). The elevated concentrations are also coincident with underlying silt soil. Not surprisingly the highest soil gas concentration of 13,000 ug/m^3 detected in deeper soil gas well SG-1D is located in close proximity to the highest concentration of residual soil impact (i.e., PNG-6) detected at the site (Figures 3 and 6).

DEQ recently informed PNG that the current Springvilla property is planned for re-development within its previously mixed-use zoning that has been updated to include a Climate Friendly Area designation. PNG understands the site redevelopment will involve removing the existing site building, removal of existing concrete and asphalt pavement, and excavation for construction of utilities and building foundations to support approximately 550 units of low-income housing in five buildings. Such a potential future use of the property may result in the application of more restrictive screening levels consistent with residential RBCs. For reference, Table 1 includes both the residential and commercial vapor intrusion (VI) to building RBCs of 360 ug/m^3 and 1,600 ug/m^3 for PCE and 16 ug/m^3 and 100 ug/m^3 for TCE.

Laboratory analysis of the April 2024 event samples, and prior sampling events, detected concentrations of target contaminants above both DEQ's residential VI to buildings RBC for PCE of 360 ug/m^3 and for occupational/commercial VI of 1,600 ug/m^3. However, soil vapor samples from the April 2024 high-groundwater sampling event suggests the lateral extent of the residual target contaminant vapor plume has been

preliminarily delineated. Consequently, further expansion of the vapor pin or deep soil gas well network does not appear warranted at this time.

The next soil gas sampling event is scheduled for late August 2024 to coincide with low groundwater conditions.

REFERENCES

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DEQ. 2019 (September 16). *Request for Further Investigation (On-Site).* Oregon Department of Environmental Quality.

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PNG. 2021 (May 18). Focused On-Site Groundwater Investigation Technical Memorandum. PNG Environmental, Inc.

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PNG. 2024 (January 17). *Revised Supplemental Soil Gas Sampling and Analysis Plan.* PNG Environmental, Inc.

Attachments:

Table 1 – Soil Gas Analytical Results

Figure 1 – Site Location Map
Figure 2 – Site Features Regional
Figure 3 – Soil Investigation Results
Figure 4 – Temporary Well Point and Shallow Zone Groundwater Results (Less Than 25 feet Depth)
Figure 5 – Soil Gas Results (2019)
Figure 6 – Soil Gas Results (April 2024)

A – Deep Soil Gas Boring Logs
B – Field Soil Gas Sampling Logs
C - Eurofins Laboratory Report

cc: Mr. Steven Korth, Oak Leaf Property Management
Mr. Mark Myers, Williams Kastner

TABLES

Table 1
Soil Gas Analytical Results (ug/m^3)
Former Springvilla Dry Cleaner
Springfield, Oregon

Location	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
SG-1	05/10/2019	4,100	14 U	10 U	10 U	10 U	6.6 U
SG-99 (Duplicate SG-1)	05/10/2019	4,000	14 U	10 U	10 U	10 U	6.8 U
	08/26/2019	4,700	9.6 U	7.1 U	7.1 U	7.1 U	4.6 U
SG-99 (Duplicate SG-1)	08/26/2019	4,400	18 U	13 U	13 U	13 U	8.4 U
	04/04/2024	3,800	11 U	7.8 U	7.8 U	7.8 U	5.1 U
SG-99 (Duplicate SG-1)	04/04/2024	3,600	11 U	7.8 U	7.8 U	7.8 U	5.0 U
SG-1D	04/04/2024	13,000	39 U	29 U	29 U	29 U	18 U
SG-2	05/10/2019	5,300	21 U	16 U	16 U	16 U	10 U
	08/26/2019	7,600	22 U	16 U	16 U	16 U	10 U
	04/04/2024	3,200	14 U	10 U	10 U	10 U	6.8 U
SG-2D	04/04/2024	4,000	24 U	17 U	17 U	17 U	11 U
SG-3	05/10/2019	3,900	13 U	9.7 U	9.7 U	9.7 U	6.3 U
	08/26/2019	6,200	18 U	13 U	13 U	13 U	8.4 U
SG-4	05/10/2019	1,400	4.4 U	3.2 U	3.2 U	3.2 U	2.1 U
	08/26/2019	2,400	8.0 U	5.9 U	5.9 U	5.9 U	3.8 U
	04/03/2024	620	1.8 U	1.3 U	1.3 U	1.3 U	0.83 U
SG-4D	04/03/2024	820	1.8 U	1.3 U	1.3 U	1.3 U	0.84 U
SG-5	05/10/2019	78	1.6 U	1.2 U	1.2 U	1.2 U	0.78 U
	08/26/2019	140	0.82 U	0.60 U	0.60 U	0.60 U	0.39 U
	04/04/2024	40	0.75 U	0.56 U	0.56 U	0.56 U	0.36 U
SG-6	05/10/2019	120	0.89 U	0.66 U	0.66 U	0.66 U	0.42 U
	08/26/2019	190	0.85 U	0.63 U	0.63 U	0.63 U	0.40 U
	04/03/2024	66	0.71 U	0.53 U	0.53 U	0.53 U	0.34 U
SG-6D	04/03/2024	0.90 U	0.71 U	0.52 U	0.52 U	0.52 U	0.34 U
SG-7	05/10/2019	17	1.8 U	1.4 U	1.4 U	1.4 U	0.87 U
	08/26/2019	31	0.90 U	0.67 U	0.67 U	0.67 U	0.43 U
	04/02/2024	8.4	0.74 U	0.54 U	0.54 U	0.54 U	0.35 U
SG-8	05/10/2019	3.6	0.89 U	0.65 U	0.65 U	0.65 U	0.42 U
	08/26/2019	15	0.96 U	0.71 U	0.71 U	0.71 U	0.46 U
	04/03/2024	57	0.69 U	0.51 U	0.51 U	0.51 U	0.33 U
SG-9	05/13/2019	720	4.4	2.0 U	2.0 U	2.0 U	1.3 U
	08/27/2019	810	3.8	2.2 U	2.2 U	2.2 U	1.4 U
	04/02/2024	250	1.3	0.55 U	0.55 U	0.55 U	0.35 U
SG-10	05/13/2019	1,400	4.4 U	3.3 U	3.3 U	3.3 U	2.1 U
	08/27/2019	6,100	29	14 U	14 U	14 U	9.1 U
SG-11	05/13/2019	27	0.88 U	3.2	0.65 U	0.65 U	0.42 U
	08/27/2019	18	0.96 U	0.76	0.71 U	0.71 U	0.46 U
	04/02/2024	20	0.72 U	0.54 U	0.54 U	0.54 U	0.34 U
SG-12	05/13/2019	3.9	1.9 U	1.4 U	1.4 U	1.4 U	0.92 U
	08/27/2019	10	2.3 U	1.7 U	1.7 U	1.7 U	1.1 U
	04/03/2024	0.90	0.71 U	0.53 U	0.53 U	0.53 U	0.34 U
SG-12D	04/03/2024	0.93	0.72 U	29	0.82	0.54 U	57

Table 1
Soil Gas Analytical Results (ug/m^3)
Former Springvilla Dry Cleaner
Springfield, Oregon

Location	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
SG-13	05/13/2019	8.4	0.91 U	0.67 U	0.67 U	0.67 U	0.43 U
	08/27/2019	14	0.94 U	0.69 U	0.69 U	0.69 U	0.45 U
SG-14	04/04/2024	2,800	9.8 U	7.2 U	7.2 U	7.2 U	4.7 U
SG-15	04/02/2024	2.2	0.71 U	0.53 U	0.53 U	0.53 U	0.34 U
SG-16	04/03/2024	11	0.69 U	0.51 U	0.51 U	0.51 U	0.33 U
SG-16D	04/16/2024	16	3.7 U	2.7 U	2.7 U	2.7 U	3.7
SG-17	04/02/2024	140	0.90	0.54 U	0.54 U	0.54 U	0.34 U
SG-18	04/02/2024	310	5.7	0.57 U	0.57 U	0.57 U	0.37 U
SG-19	04/03/2024	48	2.4	0.51 U	0.51 U	0.51 U	0.33 U
SG-19D	04/03/2024	200	0.74 U	0.55 U	0.55 U	0.55 U	0.35 U
SG-20	04/02/2024	2.7	0.75 U	0.56 U	0.56 U	0.56 U	0.36 U
SG-21	04/02/2024	1.3	0.74 U	0.55 U	0.55 U	0.55 U	0.35 U
SG-22	04/03/2024	160	1.1	0.52 U	0.52 U	0.52 U	0.34 U
SG-23	04/03/2024	76	1.7	0.54 U	0.54 U	0.54 U	0.35 U
SG-24	04/16/2024	12	0.72 U	0.54 U	0.54 U	0.54 U	0.34 U
SG-25	04/02/2024	2.5	0.73 U	0.54 U	0.54 U	0.54 U	0.35 U
DEQ Screening-Level Criteria for Soil Gas[a]							
Vapor Intrusion into Buildings							
Residential (June 2023)		360	16	1,400	1,400	7,000	5.6
Commercial (June 2023)		1,600	100	5,800	5,800	29,000	93

Notes:
[a] Oregon Department of Environmental Quality (DEQ) Generic Risk-based concentrations (revised May 2018). An update to guidance and RBCs for volatilization to indoor air pathways based on EPA Vapor Intrusion Screening Levels was released in June 2023.

Volatile organic compounds (VOCs) analyzed by Modified Method TO-15

PCE = Tetrachloroethene

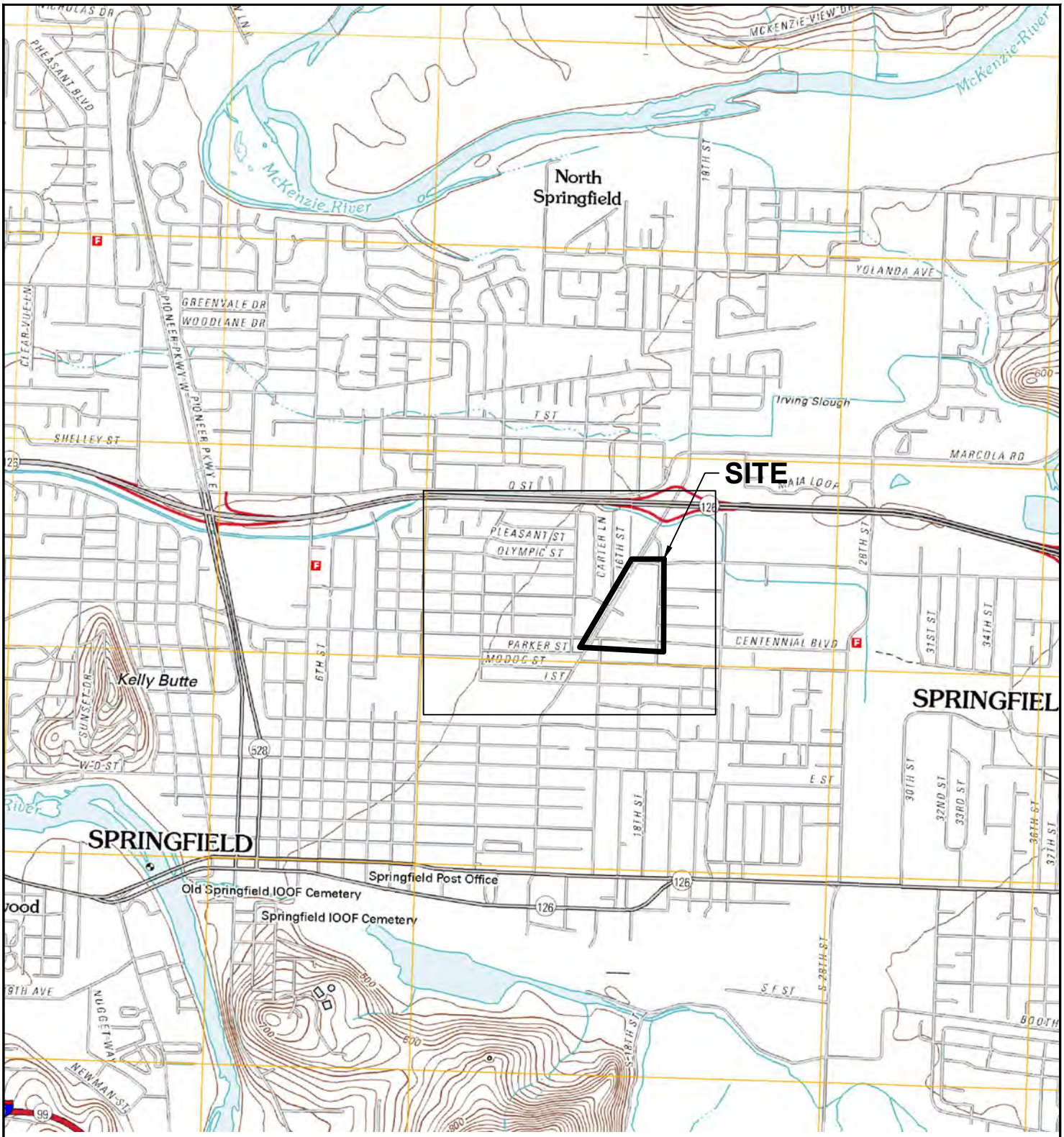
TCE = Trichloroethene

DCE = Dichloroethene

ug/m^3 = Micrograms per cubic meter of air

U = Not detected at the reporting limit shown

FIGURES



NOTE: USGS, SPRINGFIELD QUADRANGLE
OREGON-LANE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

PNG ENVIRONMENTAL, INC.
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DATE: 7-8-14
FILE NAME: 1176-01
DRAWN BY: JJT
APPROVED BY: SV

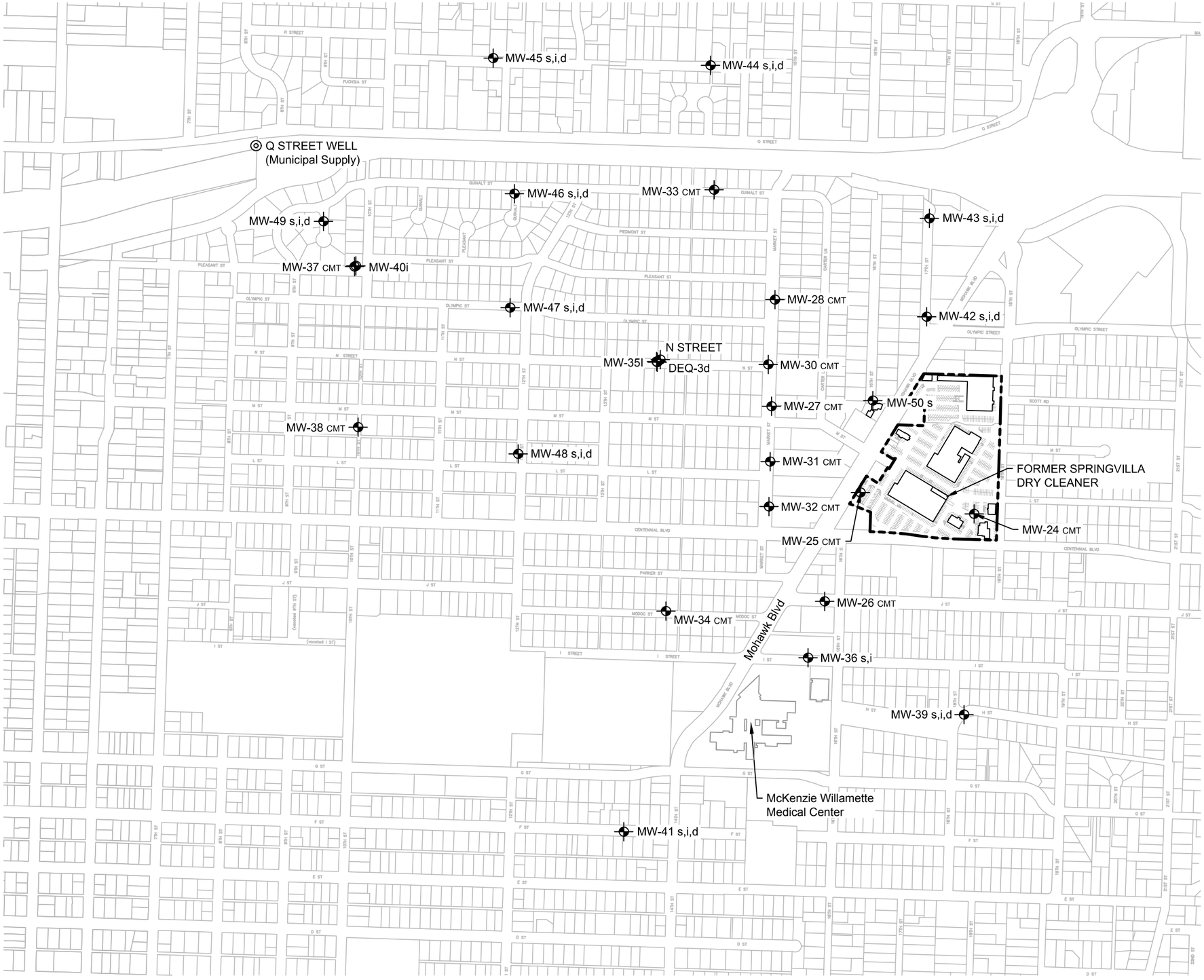
FORMER SPRINGVILLA DRY CLEANER
1459 MOHAWK BLVD
SPRINGFIELD, OR.

SITE LOCATION MAP

Project No. 1176-01
Figure No. 1

LEGEND

- Monitoring Well
- Municipal Water-Supply Well



APPROXIMATE SCALE IN FEET

0 300 600 1200

PNG ENVIRONMENTAL, INC. 6665 SW Hampton St., Ste. 101 Tigard, OR 97223 TEL (503) 620-2387 FAX (503) 620-2977	DATE: 2-11-19 FILE NAME: 1176-01 DRAWN BY: JJT APPROVED BY: SV	FORMER SPRINGVILLA DRY CLEANER 1459 MOHAWK BLVD SPRINGFIELD, OR	SITE FEATURES REGIONAL	Project No. 1176-01 Figure No. 2

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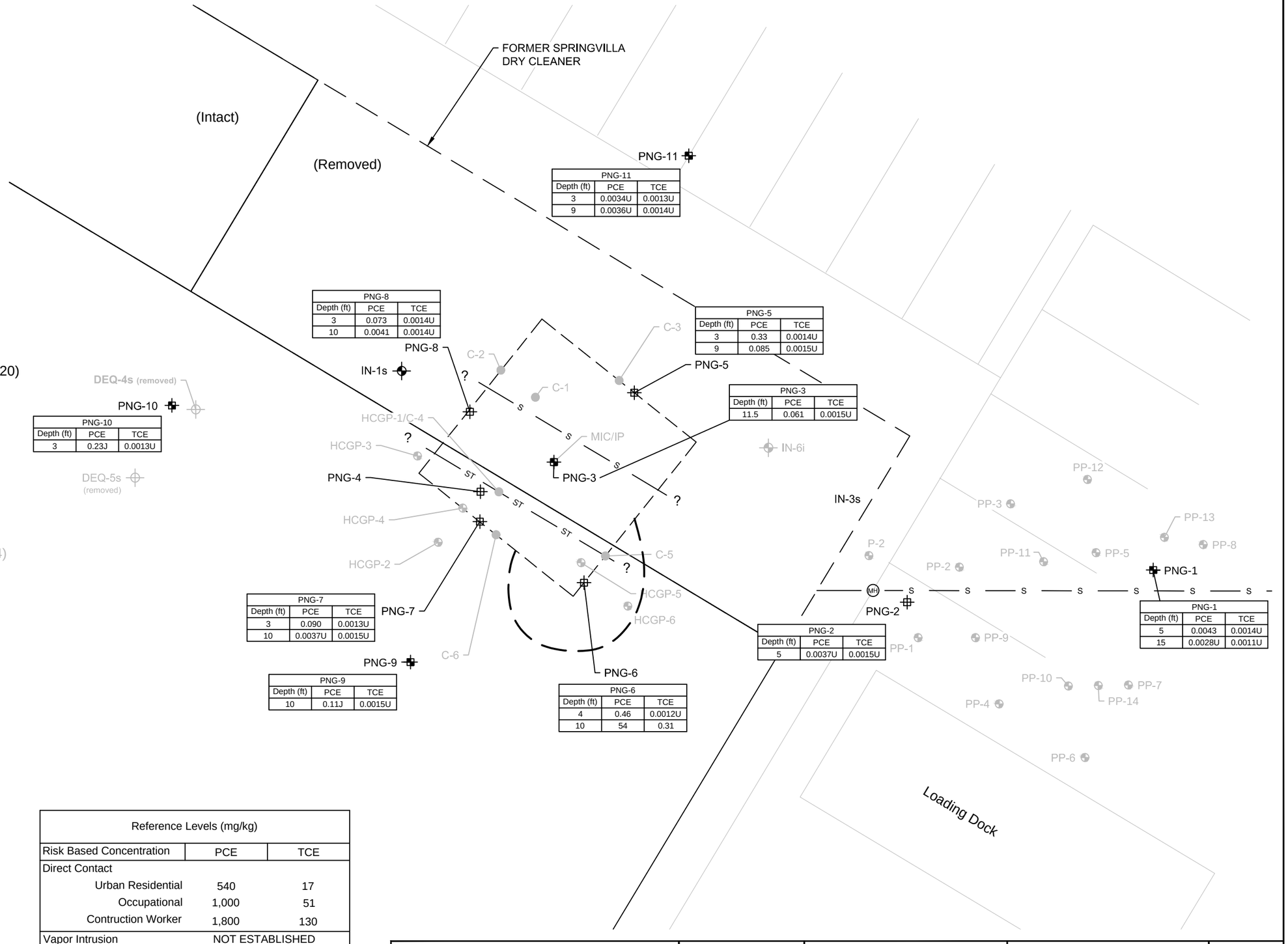
APPROXIMATE SCALE IN FEET

0 10 20

LEGEND

- Monitoring Well to be sampled
- Former Monitoring Well
- PNG Boring (2020)
- PNG Temporary Well Point Boring Groundwater Sample Location (2020)
- Soil Boring
- Soil Sample
- P = Bergeson-Boese Boring (06/1999)
- PP = Bergeson-Boese Boring (11/1999)
- MIC/IP = HartCrowser Boring (03&05/2000)
- HCGP = HartCrowser Boring (07/2002)
- C = HartCrowser Soil Sample (08/2004) (Confirmation Sample)
- MH Man Hole
- ST Storm Line
- S Sewer Line
- HartCrowser Soil Removal Area (08/2004)
- PCE= Tetrachloroethene (mg/kg)
- TCE= Trichloroethene (mg/kg)
- U= Not Detected Above Laboratory Reporting Limit Indicated
- J= Estimated Value
- Approximate Area of Residual Elevated Soil Impact

NOTE:
BASE MAPS:
- Lane County Assessment and Taxation
- Statewide Land Survey
- Bergeson-Boese & HartCrowser
- Oregon DEQ
- Features shown are approximate and for illustrative purposes only.



PNG-11		
Depth (ft)	PCE	TCE
3	0.0034U	0.0013U
9	0.0036U	0.0014U

PNG-8		
Depth (ft)	PCE	TCE
3	0.073	0.0014U
10	0.0041	0.0014U

PNG-5		
Depth (ft)	PCE	TCE
3	0.33	0.0014U
9	0.085	0.0015U

PNG-3		
Depth (ft)	PCE	TCE
11.5	0.061	0.0015U

PNG-10		
Depth (ft)	PCE	TCE
3	0.23J	0.0013U

PNG-7		
Depth (ft)	PCE	TCE
3	0.090	0.0013U
10	0.0037U	0.0015U

PNG-9		
Depth (ft)	PCE	TCE
10	0.11J	0.0015U

PNG-6		
Depth (ft)	PCE	TCE
4	0.46	0.0012U
10	54	0.31

PNG-2		
Depth (ft)	PCE	TCE
5	0.0037U	0.0015U

PNG-1		
Depth (ft)	PCE	TCE
5	0.0043	0.0014U
15	0.0028U	0.0011U

Reference Levels (mg/kg)		
Risk Based Concentration	PCE	TCE
Direct Contact		
Urban Residential	540	17
Occupational	1,000	51
Contruction Worker	1,800	130
Vapor Intrusion	NOT ESTABLISHED	

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FILE NAME: 1176-01
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FORMER SPRINGVILLA DRY CLEANER
1459 MOHAWK BLVD
SPRINGFIELD, OR

SOIL INVESTIGATION RESULTS

Project No. 1176-01

Figure No. 3

NOTE:

BASE MAPS:

- Lane County Assessment and Taxation
- Statewide Land Survey
- Bergeson-Boese & HartCrowser
- Oregon DEQ
- Features shown are approximate and for illustrative purposes only.

Note: MW-10s and MW-11i are approximately 60 feet to north of DEQ-1d

APPROXIMATE SCALE IN FEET

0 60 120

MOHAWK BLVD

FORMER SPRINGVILLA DRY CLEANER

ACTIVE TENANT SPACES

(Intact) 7

FORMER DEQ REMOVAL AR

(Removed)

DETECTED >1

50

100

Depth (ft)	PCE	TCE
14.7	0.5U	0.5U
29.7	61	45
42.8	103	59
59.8	99	30
72.2	0.5U	0.5U
82.7	77	6.9
107.5	0.5U	0.5U

MW-29s		
DEPTH(FT)	PCE	TCE
10.5-20.5	0.52	0.5U

PNG-17		
DEPTH(FT)	PCE	TCE
22.5	7.9	0.80
32.5	355	31
42.5	1,860	37
52.5	103	14

PNG-13		
DEPTH(FT)	PCE	TCE
10-15	0.5U	0.5U

MW-2s		
DEPTH(FT)	PCE	TCE
10-25	0.5U	0.5U

IN-1s		
DEPTH(FT)	PCE	TCE
10-15	3.5	12

PNG-15		
DEPTH(FT)	PCE	TCE
10-15	0.78	0.5U

PNG-11		
DEPTH(FT)	PCE	TCE
10-15	1.4	0.5U

IN-3s		
DEPTH(FT)	PCE	TCE
10-15	0.5U	0.73

PNG-1		
DEPTH(FT)	PCE	TCE
10-15	1U	1U

MW-21i		
DEPTH(FT)	PCE	TCE
52	0.5U	16
62	0.5U	13

MW-22s		
DEPTH(FT)	PCE	TCE
23	27	1.0

PNG-10		
DEPTH(FT)	PCE	TCE
10-15	223	461

PNG-18		
DEPTH(FT)	PCE	TCE
22.5	19	27
32.5	55	54
42.5	156	29
52.5	28	35

PNG-12		
DEPTH(FT)	PCE	TCE
10-15	67	1U

PNG-3		
DEPTH(FT)	PCE	TCE
10-15	52	2.4

MW-3s		
DEPTH(FT)	PCE	TCE
20	0.5U	0.5U

PNG-19		
DEPTH(FT)	PCE	TCE
32.5	0.5U	0.57
40.5	53	28
52.5	7.2	1.1

PNG-9		
DEPTH(FT)	PCE	TCE
10-15	46	36

PNG-16		
DEPTH(FT)	PCE	TCE
22.5	502	31
32.5	75	30
42.5	122	14
52.5	3.9	4.5

PNG-14		
DEPTH(FT)	PCE	TCE
10-15	5.8	1U

MW-14i, MW-4s, MW-25 CMT, MW-29s, MW-23s, PNG-17, PNG-15, MW-22s, MW-21i, PNG-18, PNG-13, MW-7i, MW-6s, MW-2s, IN-1s, PNG-11, MW-9i, MW-8s, IN-3s, PNG-1, IN-1s, IN-6i, PNG-10, DEQ-4s, DEQ-5s (removed), PNG-9, PNG-3, MW-1s, MW-12s, SG-25, PNG-16, PNG-12, PNG-14, IN-7i, MW-24 CMT, MW-3s, PNG-19, EX-5i, IN-5s, MW-5s, MW-16s, MW-17i, IN-8i, MW-18s, DEQ-2i

LEGEND

- MW-1 — Monitoring Well
- Former Monitoring Well
- PNG Boring (2020)
- PNG Temporary Well Point Boring Groundwater Sample Location (2020)
- Temporary Well Point Boring (2021)
- HartCrowser Soil Removal Area (08/2004)
- Approximate Area of Detected Shallow Groundwater PCE Impact (Less than 25' Depth)

PCE= Tetrachloroethene (ug/L)

TCE= Trichloroethene (ug/L)

U= Not Detected Above Laboratory Reporting Limit Indicated

J= Estimated Value

Monitoring Well Data Dated (October 2020 and January 2021)

Reference Levels (ug/L)		
	PCE	TCE
RBC* Ingestion & Inhalation		
Residential	12	0.49
Occupational	48	3.3
RBC* Vapor Intrusion		
Resident	29	2.1
Commercial	130	13

* Risk Based Concentration (RBC)
Note: Highlight Exceeds Resident Vapor Intrusion

PNG ENVIRONMENTAL, INC.
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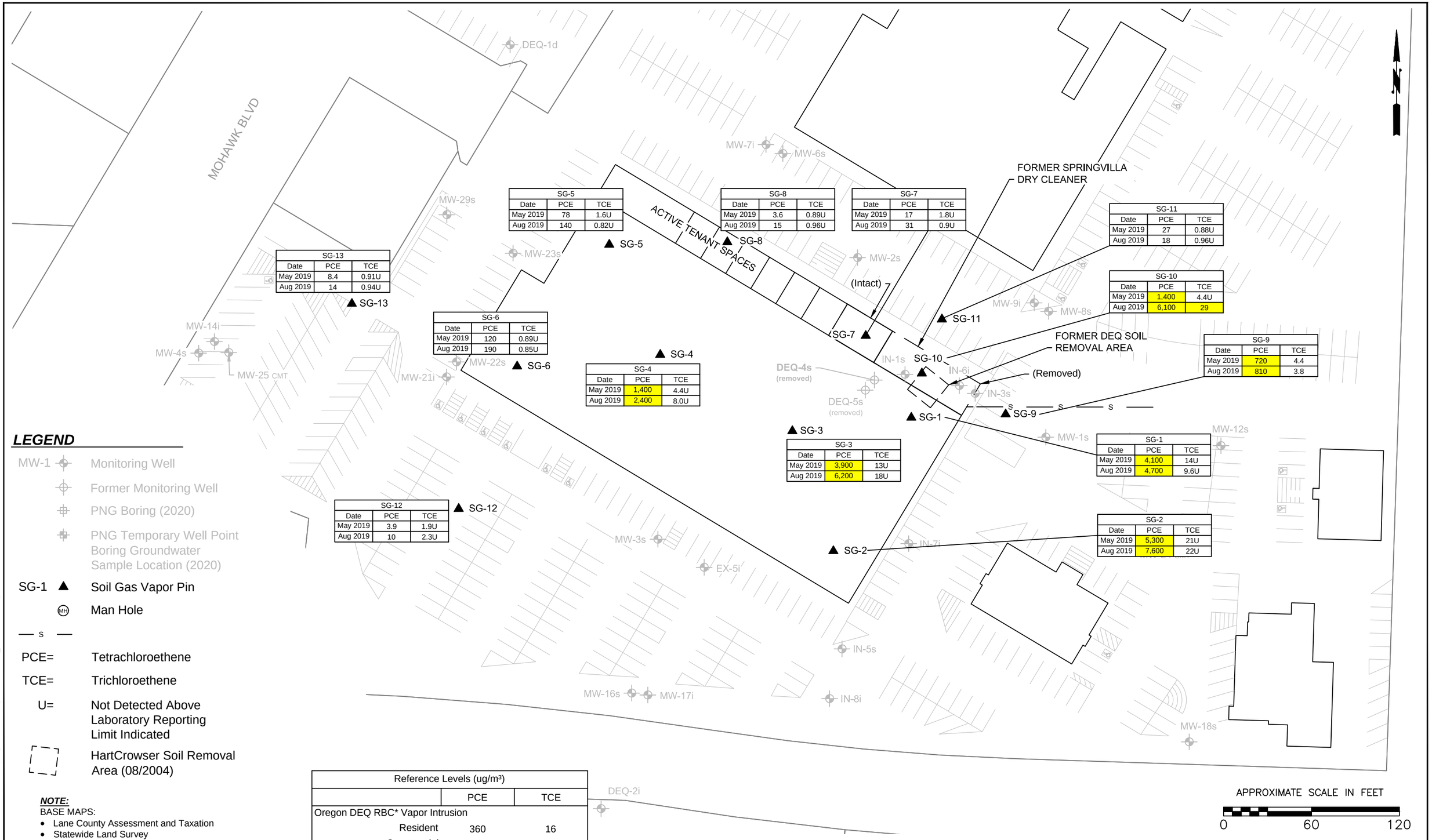
DATE: 8-17-23
FILE NAME: 1176-01
DRAWN BY: JJT
APPROVED BY: GT

FORMER SPRINGVILLA DRY CLEANER
1459 MOHAWK BLVD
SPRINGFIELD, OR

TEMPORARY WELL POINT AND SHALLOW ZONE GROUNDWATER RESULTS (LESS THAN 25' DEPTH)

Project No. 1176-01
Figure No. 4

I:\Autocad Files\PNG-Autocad\1176-01 Springfield\2024\April 2024\1176-01_BM-042324.dwg



SG-5		
Date	PCE	TCE
May 2019	78	1.6U
Aug 2019	140	0.82U

SG-8		
Date	PCE	TCE
May 2019	3.6	0.89U
Aug 2019	15	0.96U

SG-7		
Date	PCE	TCE
May 2019	17	1.8U
Aug 2019	31	0.9U

SG-11		
Date	PCE	TCE
May 2019	27	0.88U
Aug 2019	18	0.96U

SG-10		
Date	PCE	TCE
May 2019	1,400	4.4U
Aug 2019	6,100	29

SG-9		
Date	PCE	TCE
May 2019	720	4.4
Aug 2019	810	3.8

SG-13		
Date	PCE	TCE
May 2019	8.4	0.91U
Aug 2019	14	0.94U

SG-6		
Date	PCE	TCE
May 2019	120	0.89U
Aug 2019	190	0.85U

SG-4		
Date	PCE	TCE
May 2019	1,400	4.4U
Aug 2019	2,400	8.0U

SG-3		
Date	PCE	TCE
May 2019	3,900	13U
Aug 2019	6,200	18U

SG-1		
Date	PCE	TCE
May 2019	4,100	14U
Aug 2019	4,700	9.6U

SG-2		
Date	PCE	TCE
May 2019	5,300	21U
Aug 2019	7,600	22U

SG-12		
Date	PCE	TCE
May 2019	3.9	1.9U
Aug 2019	10	2.3U

LEGEND

- MW-1 — Monitoring Well
- Former Monitoring Well
- PNG Boring (2020)
- PNG Temporary Well Point Boring Groundwater Sample Location (2020)
- SG-1 ▲ — Soil Gas Vapor Pin
- MH — Man Hole
- — S —
- PCE= Tetrachloroethene
- TCE= Trichloroethene
- U= Not Detected Above Laboratory Reporting Limit Indicated
- HartCrowser Soil Removal Area (08/2004)

NOTE:
BASE MAPS:
- Lane County Assessment and Taxation
- Statewide Land Survey
- Bergeson-Boese & HartCrowser
- Oregon DEQ
- Features shown are approximate and for illustrative purposes only.

Reference Levels (ug/m³)		
	PCE	TCE
Oregon DEQ RBC* Vapor Intrusion		
Resident	360	16
Commercial	1,600	100

* Risk Based Concentration (RBC)
Note: Highlight Exceeds Resident Vapor Intrusion

APPROXIMATE SCALE IN FEET
0 60 120

PNG ENVIRONMENTAL, INC.
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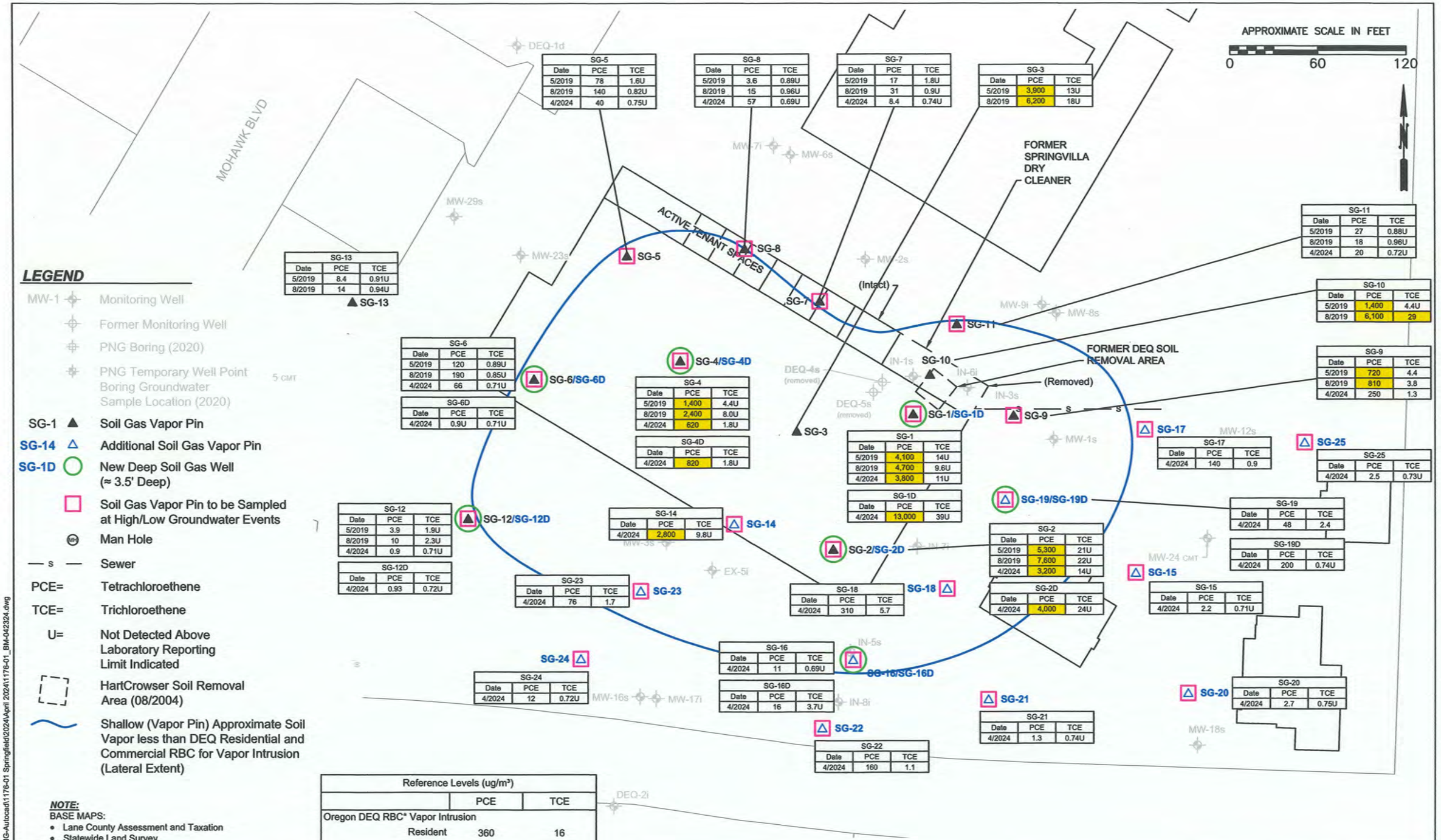
DATE: 8-17-23
FILE NAME: 1176-01
DRAWN BY: JJT
APPROVED BY: GT

FORMER SPRINGVILLA DRY CLEANER
1459 MOHAWK BLVD
SPRINGFIELD, OR

SOIL GAS RESULTS
(2019)

Project No. 1176-01
Figure No. 5

I:\Autocad Files\PNG-Autocad\1176-01 Springfield\2023\Aug 2023\1176-01_BM-081723.dwg



SG-5		
Date	PCE	TCE
5/2019	78	1.6U
8/2019	140	0.82U
4/2024	40	0.75U

SG-8		
Date	PCE	TCE
5/2019	3.6	0.89U
8/2019	15	0.96U
4/2024	57	0.69U

SG-7		
Date	PCE	TCE
5/2019	17	1.8U
8/2019	31	0.9U
4/2024	8.4	0.74U

SG-3		
Date	PCE	TCE
5/2019	3,900	13U
8/2019	6,200	18U

SG-11		
Date	PCE	TCE
5/2019	27	0.88U
8/2019	18	0.96U
4/2024	20	0.72U

SG-10		
Date	PCE	TCE
5/2019	1,400	4.4U
8/2019	6,100	29

SG-9		
Date	PCE	TCE
5/2019	720	4.4
8/2019	810	3.8
4/2024	250	1.3

SG-13		
Date	PCE	TCE
5/2019	8.4	0.91U
8/2019	14	0.94U

SG-6		
Date	PCE	TCE
5/2019	120	0.89U
8/2019	190	0.85U
4/2024	66	0.71U

SG-6D		
Date	PCE	TCE
4/2024	0.9U	0.71U

SG-4		
Date	PCE	TCE
5/2019	1,400	4.4U
8/2019	2,400	8.0U
4/2024	620	1.8U

SG-4D		
Date	PCE	TCE
4/2024	820	1.8U

SG-1		
Date	PCE	TCE
5/2019	4,100	14U
8/2019	4,700	9.6U
4/2024	3,800	11U

SG-1D		
Date	PCE	TCE
4/2024	13,000	39U

SG-17		
Date	PCE	TCE
4/2024	140	0.9

SG-25		
Date	PCE	TCE
4/2024	2.5	0.73U

SG-19		
Date	PCE	TCE
4/2024	48	2.4

SG-19D		
Date	PCE	TCE
4/2024	200	0.74U

SG-2		
Date	PCE	TCE
5/2019	5,300	21U
8/2019	7,600	22U
4/2024	3,200	14U

SG-2D		
Date	PCE	TCE
4/2024	4,000	24U

SG-15		
Date	PCE	TCE
4/2024	2.2	0.71U

SG-20		
Date	PCE	TCE
4/2024	2.7	0.75U

SG-12		
Date	PCE	TCE
5/2019	3.9	1.9U
8/2019	10	2.3U
4/2024	0.9	0.71U

SG-12D		
Date	PCE	TCE
4/2024	0.93	0.72U

SG-14		
Date	PCE	TCE
4/2024	2,800	9.8U

SG-23		
Date	PCE	TCE
4/2024	76	1.7

SG-18		
Date	PCE	TCE
4/2024	310	5.7

SG-16		
Date	PCE	TCE
4/2024	11	0.69U

SG-16D		
Date	PCE	TCE
4/2024	16	3.7U

SG-24		
Date	PCE	TCE
4/2024	12	0.72U

SG-21		
Date	PCE	TCE
4/2024	1.3	0.74U

SG-22		
Date	PCE	TCE
4/2024	160	1.1

LEGEND

- MW-1 — Monitoring Well
- Former Monitoring Well
- PNG Boring (2020)
- PNG Temporary Well Point Boring Groundwater Sample Location (2020)
- SG-1 ▲ Soil Gas Vapor Pin
- SG-14 △ Additional Soil Gas Vapor Pin
- SG-1D ◯ New Deep Soil Gas Well (≈ 3.5' Deep)
- □ Soil Gas Vapor Pin to be Sampled at High/Low Groundwater Events
- MH Man Hole
- — s — Sewer
- PCE= Tetrachloroethene
- TCE= Trichloroethene
- U= Not Detected Above Laboratory Reporting Limit Indicated
- HartCrowser Soil Removal Area (08/2004)
- Shallow (Vapor Pin) Approximate Soil Vapor less than DEQ Residential and Commercial RBC for Vapor Intrusion (Lateral Extent)

NOTE:
BASE MAPS:
- Lane County Assessment and Taxation
- Statewide Land Survey
- Bergeson-Boese & HartCrowser
- Oregon DEQ
- Features shown are approximate and for illustrative purposes only.

Reference Levels (ug/m³)		
	PCE	TCE
Oregon DEQ RBC* Vapor Intrusion		
Resident	360	16
Commercial	1,600	100

* Risk Based Concentration (RBC)
Note: Highlight Exceeds Resident Vapor Intrusion

PNG ENVIRONMENTAL, INC.
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DATE: 5-2-24
FILE NAME: 1176-01
DRAWN BY: JJT
APPROVED BY: GT

FORMER SPRINGVILLA DRY CLEANER
1459 MOHAWK BLVD
SPRINGFIELD, OR

SOIL GAS RESULTS
APRIL 2024

Project No. 1176-01
Figure No. 6

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ATTACHMENT A

BORING / WELL LOG ID SG-1D

PNG Environmental, Inc. Page 1 of 1

Project Number:	1176	**Boring Start (Date / Time):**	1003 02/29/24
Project Name:	Frmr Springvilla DC	**Boring End (Date / Time):**	02/29 /24
Location:	Springfield, OR	**Contractor:**	Cascade Drilling, LLC
Logger:	JG / GT	**Equipment:**	Geo Probe

Sample Information						USCS Description:
Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	Group name, group symbol, grain size percentage, (angularity optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
						Concrete 5.5" Thick, Clear Uniform under concrete
		0			0.5	1 = 0.5" SAND - SP Med-Fine Grain, Lt Brown, Damp, Loose, No Odor
						SAND w/ Gravel - SW - Med to Fine Grain, Lt Brown,
		0			1	Damp, Med Dense, 1/4" - 1" Rock, rounded, No Odor
						4" - 1" Trace Rock, Wet, No Odor
		0			1.5	
					2	
		0				Clayey Silt w/ trace Sand - ML - Dark Brown, Damp
		0			2.5	Med Stiff, No Odor
		0			3	
		0	V		3.5	3.5 - 2.75 Sand - Screen = 4" ↑ TBD
						2.75 - 2.5 Granular Bent.
					4	2.5 - 1.5 Grout (Cement)
						1.5 - 0 Concrete / Monument
					4.5	
						Same as SG-4D
					5	
					5.5	
					6	
					6.5	
					7	
					7.5	
					8	
					8.5	
					9	
					9.5	
					10	

BORING / WELL LOG

ID SG-2 D

PNG Environmental, Inc.

Page 1 of 1

Project Number:	1176	**Boring Start (Date / Time):** 0910	02/28/24
Project Name:	Frmr Springvilla DC	**Boring End (Date / Time):**	02/28/24
Location:	Springfield, OR	**Contractor:** Cascade Drilling, LLC	
Logger:	JG / GT	**Equipment:** Geo Probe	

Sample Information						USCS Description:
Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	Group name, group symbol, grain size percentage, (angularily optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
						Concrete 4 1/4" thick
		0			0.5	Sandy Gravel - SW, Med-Fine Grain Sand, Lt Brown, Damp, Med Dense, 1/4 - 1" Rock rounded - Sub Angular, NOOSD
		0			1	
		0			1.5	
		0			2	Clayey SILT w/ trace Sand - ML - Dark Brown, Damp Medium, NOOSD
		0			2.5	
		0			3	3.5 - 2.5 Sand / Gravel 4" TBD
		0			3.5	2.5 - 2.0 AG Gravel Best Available
					4	2.0 - 1 AG Gravel
					4.5	1 - 0 Concrete / Material
					5	
					5.5	
					6	
					6.5	
					7	
					7.5	
					8	
					8.5	
					9	
					9.5	
					10	

BORING / WELL LOG

ID SG-4D

PNG Environmental, Inc.

Page 1 of 1

Project Number:	1176	**Boring Start (Date / Time):**	0756 02/28/24
Project Name:	Frmr Springvilla DC	**Boring End (Date / Time):**	02/28/24
Location:	Springfield, OR	**Contractor:**	Cascade Drilling, LLC
Logger:	JG / GT	**Equipment:**	Geo Probe

Sample Information / **USCS Description:**

Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	Group name, group symbol, grain size percentage, (angularity optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
						Concrete 5" Thick
		0			0.5	Fill Sand - SP, Med-Fine Grain, Lt Brown, Damp, Loose, NOSD (4 Lap)
						Sandy Gravel - SW - Med-Fine Grain, Lt Brown, Damp
		0			1	Med Dense, 1/4" - 4" Rock - rounded - subangular, NOSD (5)
						w/ a few 6" Dia Cobbles
		0			1.5	
		0			2	
						Clayey SILT w/ trace Sand, ML, Dark Brown, Damp
		0			2.5	Med Stiff, NOOSD
		0			3	
		0			3.5	
					4	
						0 → 1.5 Monument / Concrete
					4.5	1.5 → 2.5 Hydrated Grout (Bentonite?)
						2.5 → 2.75 Granular Bentonite
					5	2.75 - 3.5 Sand
					5.5	Screen Set = 4" above TBD in Sand
						Same Construction as SG-6D
					6	
					6.5	
					7	
					7.5	
					8	
					8.5	
					9	
					9.5	
					10	

BORING / WELL LOG

ID SG 6 D

PNG Environmental, Inc.

Page 1 of 1

Project Number:	1176	**Boring Start (Date / Time):**	1437 02/27/24
Project Name:	Frmr Springvilla DC	**Boring End (Date / Time):**	1614 02/27/24
Location:	Springfield, OR	**Contractor:**	Cascade Drilling, LLC
Logger:	JG / GT	**Equipment:**	Geo Probe 7720 DT

Sample Information						USCS Description:
Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	Group name, group symbol, grain size percentage, (angularity optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
					0	Concrete 4.5" Thick
		0			0.5	SAND - SP - Med to Fine Grain, Lt Brown, Dry/Moist - USCS
						SAND w/ Gravel - SW Med to Fine Grain, Lt Brown,
		0			1	Damp, Med Dense, 1/4" to 1" Rounded Rock
					1.5	
		0			2	
						Clayey SILT w/ Trace Sand, ML, Dark Brown,
		0			2.5	Damp, Med Stiff, no USCS
					3	
		0			3.5	
					4	0.0 - 1.0 Cement / Concrete
						1.0 - 2.5 Light Colored - Cement @ 2' BGS
					4.5	2.5 - 2.75 Granular Bentonite
						2.75 - 3.0 Sand
					5	
						Screen Set @ 4" above TBD
					5.5	encased in Sand - see fig 9
					6	
					6.5	
					7	
					7.5	
					8	
					8.5	
					9	
					9.5	
					10	

3" Lift V.

BORING / WELL LOG

ID SG 12D

PNG Environmental, Inc.

Page 1 of 1

Project Number:	1176	**Boring Start (Date / Time):** 1320	02/27/24
Project Name:	Frmr Springvilla DC	**Boring End (Date / Time):** 1415	02/27/24
Location:	Springfield, OR	**Contractor:** Cascade Drilling, LLC	
Logger:	JG / GT	**Equipment:** Geo Probe 7720 DT	

Sample Information						USCS Description:
Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	Group name, group symbol, grain size percentage, (angularity optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
						Asphalt 9.5"
		0			0.5	GRAVEL, GW, Well Graded, Angular - Sub Angular, Brown / Gray, Very Moist NO ODO @ 10.5' BGS
		0			1	
						Clayey SILT w/ trace Sand, ML, Dark Brown, Moist
		0			1.5	Med Stiff NO ODO
		0			2	
		0			2.5	
						color @ 2.75' = Brown / Light Brown - NO ODO
		0			3	Med Stiff, Less Sand
		0			3.5	See SG-19D for Well Details
					4	
					4.5	
					5	
					5.5	
					6	
					6.5	
					7	
					7.5	
					8	
					8.5	
					9	
					9.5	
					10	

3' Screen of SG 12

BORING / WELL LOG

ID SG-16D

PNG Environmental, Inc.

Page 1 of 1

Project Number:	1176	**Boring Start (Date / Time):**	1145 02/22/24
Project Name:	Frmr Springvilla DC	**Boring End (Date / Time):**	1255 02/22/24
Location:	Springfield, OR	**Contractor:**	Cascade Drilling, LLC
Logger:	JG / GT	**Equipment:**	Geo Probe 7720DT

Sample Information

Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	USCS Description: Group name, group symbol, grain size percentage, (angularity optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
						ABANDONED
					0.5	ASPHALT 3.5"
		0				Gravel, GW, well Graded, Angular-Sub Angular, Brown/Gray
					1	Wet (Concrete Cutting Water) no OSD ≈ 8.5' BGS
		0				Clayey SILT w/ trace Sand, ML, Dark Brown, Moist, Med Stiff
					1.5	no OSD
		0			2	
					2.5	
		0			3	
					3.5	Color DE 3.0-3.5 = Brown / Light Brown no OSD
					4	
					4.5	See SG-19D for well details: Bull Gage Types
					5	
					5.5	
					6	
					6.5	
					7	
					7.5	
					8	
					8.5	
					9	
					9.5	
					10	

3150 SG-16

BORING / WELL LOG

ID SG-16D "2"

PNG Environmental, Inc.

Page 1 of 1

Project Number: 1176	Boring Start (Date / Time): 04-16-23 / 1013
Project Name: Springfield	Boring End (Date / Time): 04-16-23 / 1230
Location: , OR	Contractor: CDI Bore Hog
Logger: JMR	Equipment: Ford DT-GP

Sample Information						USCS Description:
Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	Group name, group symbol, grain size percentage, (angularity optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
					0	Asphalt 3.5" / Gravel, GW, well Graded, Angular to
		0			1	sub angular, Dry NO OSD → 9" BGS
						↳ Clayey Silty w/ Gravelly Sand, ML, Dark Brown, Dry
		0			2	to moist, Med Stiff - NO OSD
					3	
		0				TBD = 3.5'
		0	↓		4	
						Note - Moisture noted bottom of Gravel & Silt
					5	while digging out for Monument
					6	
					7	
					8	
						0
					9	0.5 [] MON = 10" ↕ Concrete 1.5-0 bgs
						1 OK
					10	1.5 Grout ↑ 3.1.25 16
						2 Grout = 1" Granular Bent
					11	2.5 Sand
						3 Hole 1"
					12	3.5 Sand 0.5'
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

BORING / WELL LOG ID SG-19D

PNG Environmental, Inc. Page 1 of 1

Project Number:	1176	**Boring Start (Date / Time):**	0936 02/27/24
Project Name:	Frmr Springvilla DC	**Boring End (Date / Time):**	1132 02/27/24
Location:	Springfield, OR	**Contractor:**	Cascade Drilling, LLC
Logger:	JG / GT	**Equipment:**	Geo Probe 7730DT

Sample Information						USCS Description:
Sample ID	Time	PID (ppm)	Recovery	Water	Depth (ft)	Group name, group symbol, grain size percentage, (angularity optional), color, moisture, consistency/density, plasticity, other observations, environmental observations
					0.5	Asphalt 5.5"
		0.0			1	Gravel, GW well Graded, Gravel-Sub Angular, Brown / Gray Damp (Concrete cutting water) no odor
		0			1.5	Clayey SILT w/ Fine Sand, ML, Dark Brown, Moist Med Stiff, no odor
		0			2	
		0			2.5	Silt - ML - Brown, Moist, Med Stiff, Moderate no odor
		0			3	
		0			3.5	
					4	
					4.5	
					5	
					5.5	
					6	Set 55 screen @ 3.25 over 4" CS Sand 1'
					6.5	Grout TBD ft 1.75 1.75 Granular 2.5 - 1.5 1
					7	Grout 1.5 - 1 Concrete 1 - 0 (Monument = 12" SQ)
					7.5	As Fig. 9
					8	
					8.5	
					9	
					9.5	
					10	

31' SE of SS-19

LANE 79412

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)

3/6/2024

(1) OWNER/PROJECT

Hole Number SG-19D

PROJECT NAME/NBR: 306-24-1022

First Name STEVEN Last Name YETT
Company
Address PO BOX 26125
City EUGENE State OR Zip 97402

(2) TYPE OF WORK

[X] New [ ] Deepening [ ] Abandonment
[ ] Alteration (repair/recondition)

(3) CONSTRUCTION

[ ] Rotary Air [ ] Hand Auger [ ] Hollow stem auger
[ ] Rotary Mud [ ] Cable [X] Push Probe
[ ] Other

(4) TYPE OF HOLE:

( ) Uncased Temporary (•) Cased Permanent
( ) Uncased Permanent ( ) Slope Stablity
( ) Other
Other:

(5) USE OF HOLE

SOIL GAS WELL

(6) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)
Depth of Completed Hole 3.50 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
2.25	0	3.5	Bentonite Chips	1	3	0.1	S

Backfill placed from 0 ft. to 1 ft. Material CONCRETE
Filter pack from 3 ft. to 3.5 ft. Material SILICA SAN Size 10/20

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
•		0.25		0.5	3	40	•			X
	•	0.25		3	3.5	40	•			X

(8) WELL TESTS

( ) Pump ( ) Bailer ( ) Air ( ) Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration(hr)

Temperature °F Lab analysis [ ] Yes By
Supervising Geologist/Engineer
Water quality concerns? [ ] Yes (describe below) TDS amount

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)

County LANE Twp 17.00 S N/S Range 3.00 W E/W WM
Sec 25 SE 1/4 of the SW 1/4 Tax Lot 3902
Tax Map Number Lot
Lat ° ' " or 44.05668130 DMS or DD
Long ° ' " or -122.99935730 DMS or DD
(•) Street address of hole ( ) Nearest address
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well				

Flowing Artesian? [ ]
Depth water was first found

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Ground Elevation 466.55 FT

Material	From	To
No soil samples taken	0	3.5

Date Started 2/27/2024 Completed 2/27/2024

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/ lbs

Date Started Completed

Professional Certification

(to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).

I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License/Registration Number 10649 Date 3/6/2024
First Name KYLE Last Name KING
Affiliation CASCADE REMEDIATION SERVICES

(6) BORE HOLE CONSTRUCTION

BORE HOLE

Dia	From	To

SEAL

Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(7) CASING/SCREENS

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		

(8) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Permanent soil gas well installs, no samples taken.

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Material	From	To

(12) ABANDONMENT LOG

Material	From	To	Amt	sacks/ lbs

GEOTECHNICAL HOLE REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

LANE 79412

3/6/2024

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900

OREGON WATER RESOURCES DEPARTMENT

LOCATION OF WELL

Latitude: 44.05668130 Datum: WGS84

Longitude: -122.99935730

Township/Range/Section/Quarter-Quarter Section:
WM17.00S3.00W25SESW

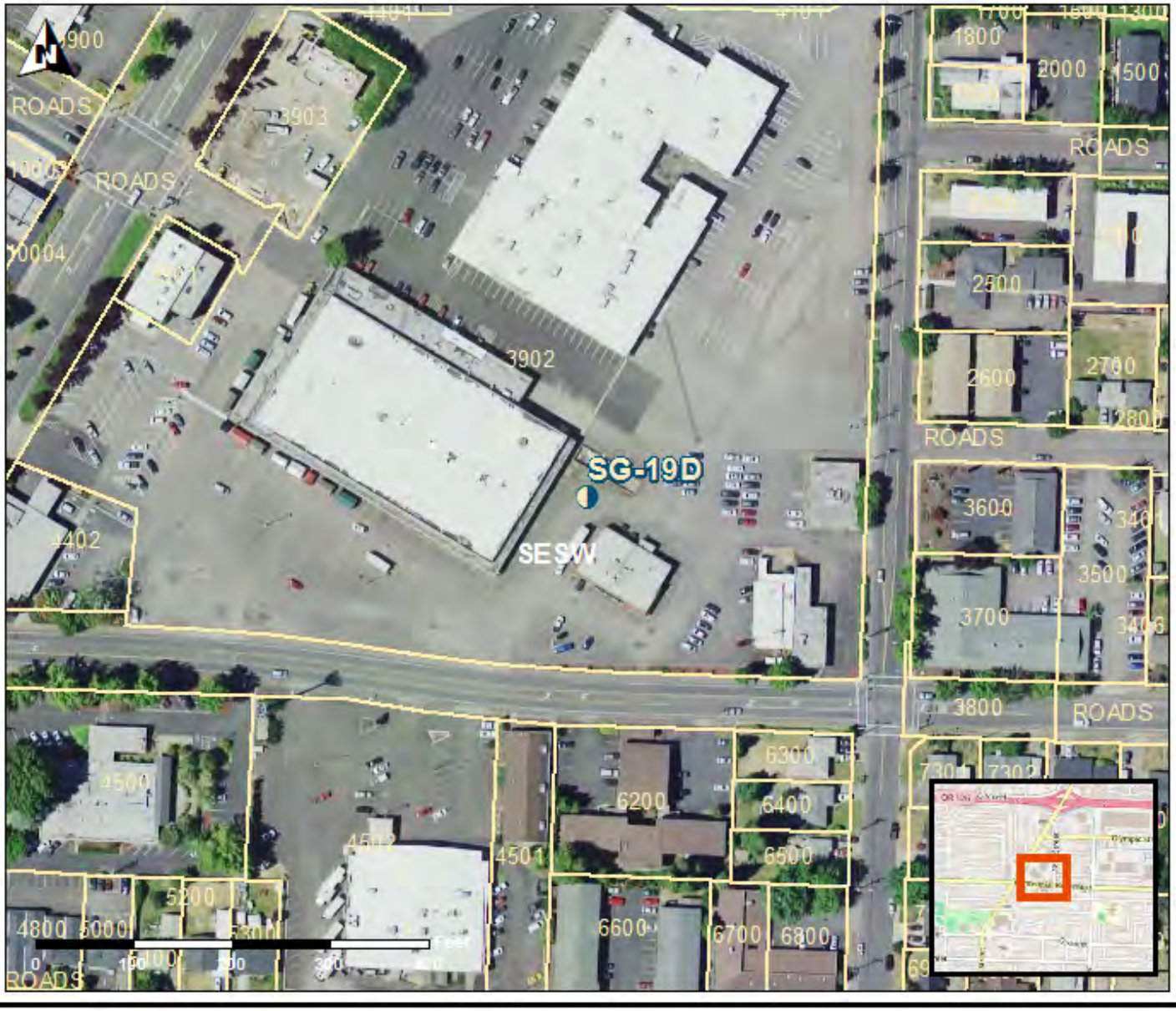
Address of Well:
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

Hole Nbr: SG-19D

Printed: March 6, 2024

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



LANE 79413

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)

3/6/2024

(1) OWNER/PROJECT

Hole Number SG-16D

PROJECT NAME/NBR: 306-24-1022

First Name STEVEN Last Name YETT
Company
Address PO BOX 26125
City EUGENE State OR Zip 97402

(2) TYPE OF WORK

[X] New [ ] Deepening [ ] Abandonment
[ ] Alteration (repair/recondition)

(3) CONSTRUCTION

[ ] Rotary Air [ ] Hand Auger [ ] Hollow stem auger
[ ] Rotary Mud [ ] Cable [X] Push Probe
[ ] Other

(4) TYPE OF HOLE:

( ) Uncased Temporary (•) Cased Permanent
( ) Uncased Permanent ( ) Slope Stablity
( ) Other
Other:

(5) USE OF HOLE

SOIL GAS WELL

(6) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)
Depth of Completed Hole 3.50 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
2.25	0	3.5	Bentonite Chips	1	3	0.1	S

Backfill placed from 0 ft. to 1 ft. Material CONCRETE
Filter pack from 3 ft. to 3.5 ft. Material SILICA SAN Size 10/20

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
•		0.25		0.5	3	40	•			X
	•	0.25		3	3.5	40	•			X

(8) WELL TESTS

( ) Pump ( ) Bailer ( ) Air ( ) Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration(hr)

Temperature °F Lab analysis [ ] Yes By
Supervising Geologist/Engineer
Water quality concerns? [ ] Yes (describe below) TDS amount

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)

County LANE Twp 17.00 S N/S Range 3.00 W E/W WM
Sec 25 SE 1/4 of the SW 1/4 Tax Lot 3902
Tax Map Number Lot
Lat ° ' " or 44.05638950 DMS or DD
Long ° ' " or -122.99974460 DMS or DD
(•) Street address of hole ( ) Nearest address
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well				

Flowing Artesian? [ ]
Depth water was first found

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Ground Elevation 466.48 FT

Material	From	To
No soil samples taken	0	3.5

Date Started 2/27/2024 Completed 2/27/2024

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/ lbs

Date Started Completed

Professional Certification

(to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).

I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License/Registration Number 10649 Date 3/6/2024
First Name KYLE Last Name KING
Affiliation CASCADE REMEDIATION SERVICES

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version:

(6) BORE HOLE CONSTRUCTION

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(7) CASING/SCREENS

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		

(8) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Permanent soil gas well installs, no samples taken.

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Material	From	To

(12) ABANDONMENT LOG

Material	From	To	Amt	sacks/ lbs

GEOTECHNICAL HOLE REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

LANE 79413

3/6/2024

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900

LOCATION OF WELL

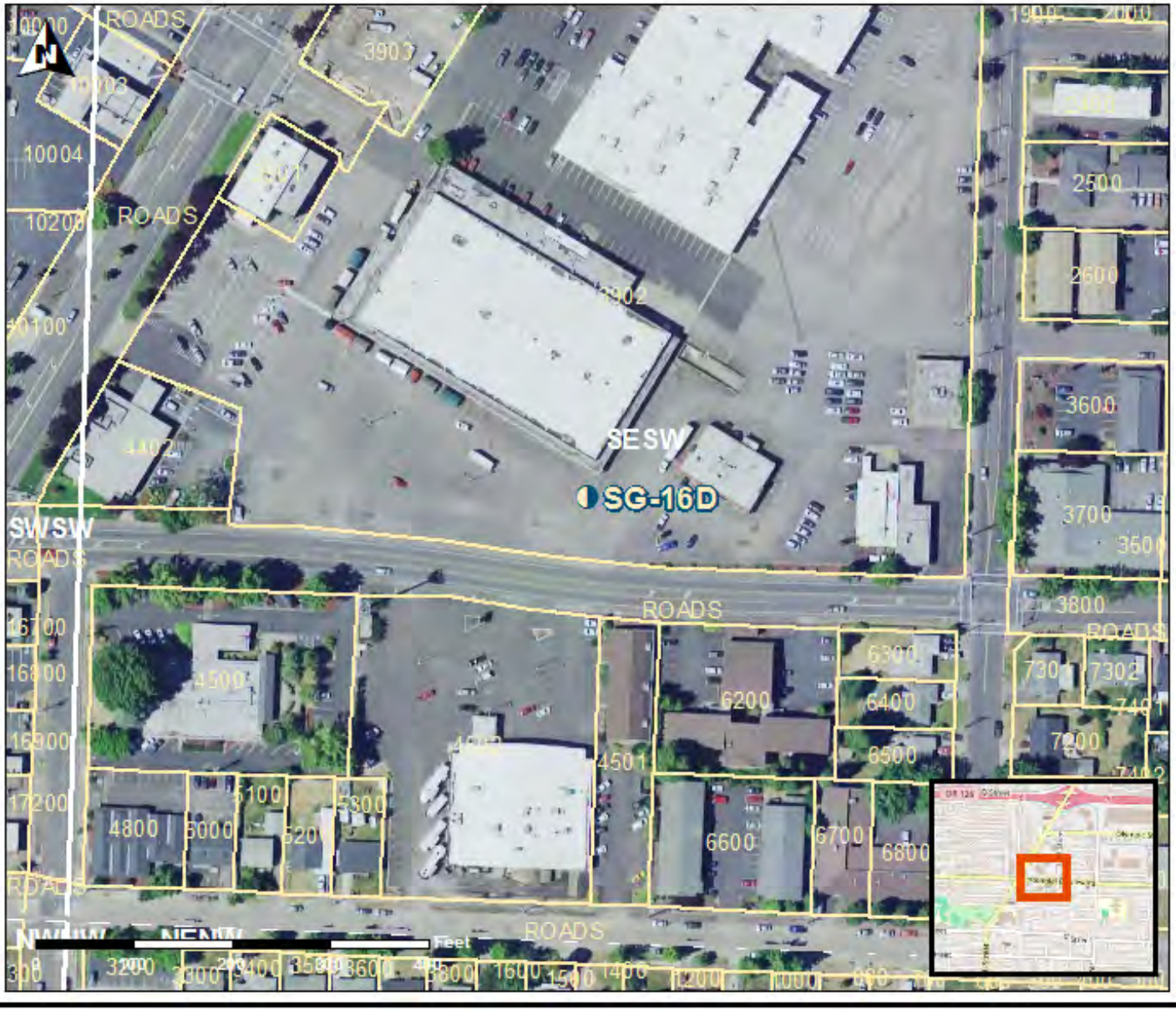
Latitude: 44.05638950 Datum: WGS84
Longitude: -122.99974460
Township/Range/Section/Quarter-Quarter Section:
WM17.00S3.00W25SESW
Address of Well:
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

Hole Nbr: SG-16D

Printed: March 6, 2024

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



LANE 79414

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)

3/6/2024

(1) OWNER/PROJECT

Hole Number SG-12D

PROJECT NAME/NBR: 306-24-1022

First Name STEVEN Last Name YETT
Company
Address PO BOX 26125
City EUGENE State OR Zip 97402

(2) TYPE OF WORK

[X] New [ ] Deepening [ ] Abandonment
[ ] Alteration (repair/recondition)

(3) CONSTRUCTION

[ ] Rotary Air [ ] Hand Auger [ ] Hollow stem auger
[ ] Rotary Mud [ ] Cable [X] Push Probe
[ ] Other

(4) TYPE OF HOLE:

( ) Uncased Temporary (•) Cased Permanent
( ) Uncased Permanent ( ) Slope Stablity
( ) Other
Other:

(5) USE OF HOLE

SOIL GAS WELL

(6) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)
Depth of Completed Hole 3.50 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
2.25	0	3.5	Bentonite Chips	1	3	0.1	S

Backfill placed from 0 ft. to 1 ft. Material CONCRETE
Filter pack from 3 ft. to 3.5 ft. Material SILICA SAN Size 10/20

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
•		0.25		0.5	3	40	•			X
	•	0.25		3	3.5	40	•			X

(8) WELL TESTS

( ) Pump ( ) Bailer ( ) Air ( ) Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration(hr)

Temperature °F Lab analysis [ ] Yes By
Supervising Geologist/Engineer
Water quality concerns? [ ] Yes (describe below) TDS amount

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)

County LANE Twp 17.00 S N/S Range 3.00 W E/W WM
Sec 25 SE 1/4 of the SW 1/4 Tax Lot 3902
Tax Map Number Lot
Lat ° ' " or 44.05664901 DMS or DD
Long ° ' " or -123.00063145 DMS or DD
(•) Street address of hole ( ) Nearest address
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well				

Flowing Artesian? [ ]
Depth water was first found

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Ground Elevation 466.57 FT

Material	From	To
No soil samples taken	0	3.5

Date Started 2/27/2024 Completed 2/27/2024

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/ lbs

Date Started Completed

Professional Certification

(to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).

I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License/Registration Number 10649 Date 3/6/2024
First Name KYLE Last Name KING
Affiliation CASCADE REMEDIATION SERVICES

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version:

(6) BORE HOLE CONSTRUCTION

BORE HOLE

Dia	From	To

SEAL

Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(7) CASING/SCREENS

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(8) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Permanent soil gas well installs, no samples taken.

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Material	From	To

(12) ABANDONMENT LOG

Material	From	To	Amt	sacks/ lbs

GEOTECHNICAL HOLE REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

LANE 79414

3/6/2024

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900

LOCATION OF WELL
Latitude: 44.05664901 Datum: WGS84
Longitude: -123.00063145
Township/Range/Section/Quarter-Quarter Section:
WM17.00S3.00W25SESW
Address of Well:
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

Hole Nbr: SG-12D

Printed: March 6, 2024

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor

LANE 79415

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)

3/6/2024

(1) OWNER/PROJECT

Hole Number SG-6D

PROJECT NAME/NBR: 306-24-1022

First Name STEVEN Last Name YETT
Company
Address PO BOX 26125
City EUGENE State OR Zip 97402

(2) TYPE OF WORK

☒ New ☐ Deepening ☐ Abandonment
☐ Alteration (repair/recondition)

(3) CONSTRUCTION

☐ Rotary Air ☐ Hand Auger ☐ Hollow stem auger
☐ Rotary Mud ☐ Cable ☒ Push Probe
☐ Other

(4) TYPE OF HOLE:

◯ Uncased Temporary ◉ Cased Permanent
◯ Uncased Permanent ◯ Slope Stablity
◯ Other
Other:

(5) USE OF HOLE

SOIL GAS WELL

(6) BORE HOLE CONSTRUCTION

Special Standard ☐ (Attach copy)
Depth of Completed Hole 3.50 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
2.25	0	3.5	Bentonite Chips	1	3	0.1	S

Backfill placed from 0 ft. to 1 ft. Material CONCRETE
Filter pack from 3 ft. to 3.5 ft. Material SILICA SAN Size 10/20

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
◉	◯	0.25	☐	0.5	3	40	◉	◯	☐	☒
◯	◉	0.25	☐	3	3.5	40	◉	◯	☐	☒
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐

(8) WELL TESTS

◯ Pump ◯ Bailer ◯ Air ◯ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration(hr)

Temperature °F Lab analysis ☐ Yes By
Supervising Geologist/Engineer
Water quality concerns? ☐ Yes (describe below) TDS amount

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)

County LANE Twp 17.00 S N/S Range 3.00 W E/W WM
Sec 25 SE 1/4 of the SW 1/4 Tax Lot 3902
Tax Map Number Lot
Lat ° ' " or 44.05687860 DMS or DD
Long ° ' " or -123.00052070 DMS or DD
◉ Street address of hole ◯ Nearest address
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening			☐	
Completed Well			☐	

Flowing Artesian? ☐
Depth water was first found

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					☐	
					☐	
					☐	
					☐	
					☐	

(11) SUBSURFACE LOG

Ground Elevation 467.47 FT

Material	From	To
No soil samples taken	0	3.5

Date Started 2/27/2024 Completed 2/27/2024

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/ lbs

Date Started Completed

Professional Certification

(to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).

I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License/Registration Number 10649 Date 3/6/2024
First Name KYLE Last Name KING
Affiliation CASCADE REMEDIATION SERVICES

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version:

(6) BORE HOLE CONSTRUCTION

BORE HOLE

Dia	From	To

SEAL

Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(7) CASING/SCREENS

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		

(8) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Permanent soil gas well installs, no samples taken.

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Material	From	To

(12) ABANDONMENT LOG

Material	From	To	Amt	sacks/ lbs

GEOTECHNICAL HOLE REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

LANE 79415

3/6/2024

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900

OREGON WATER RESOURCES DEPARTMENT

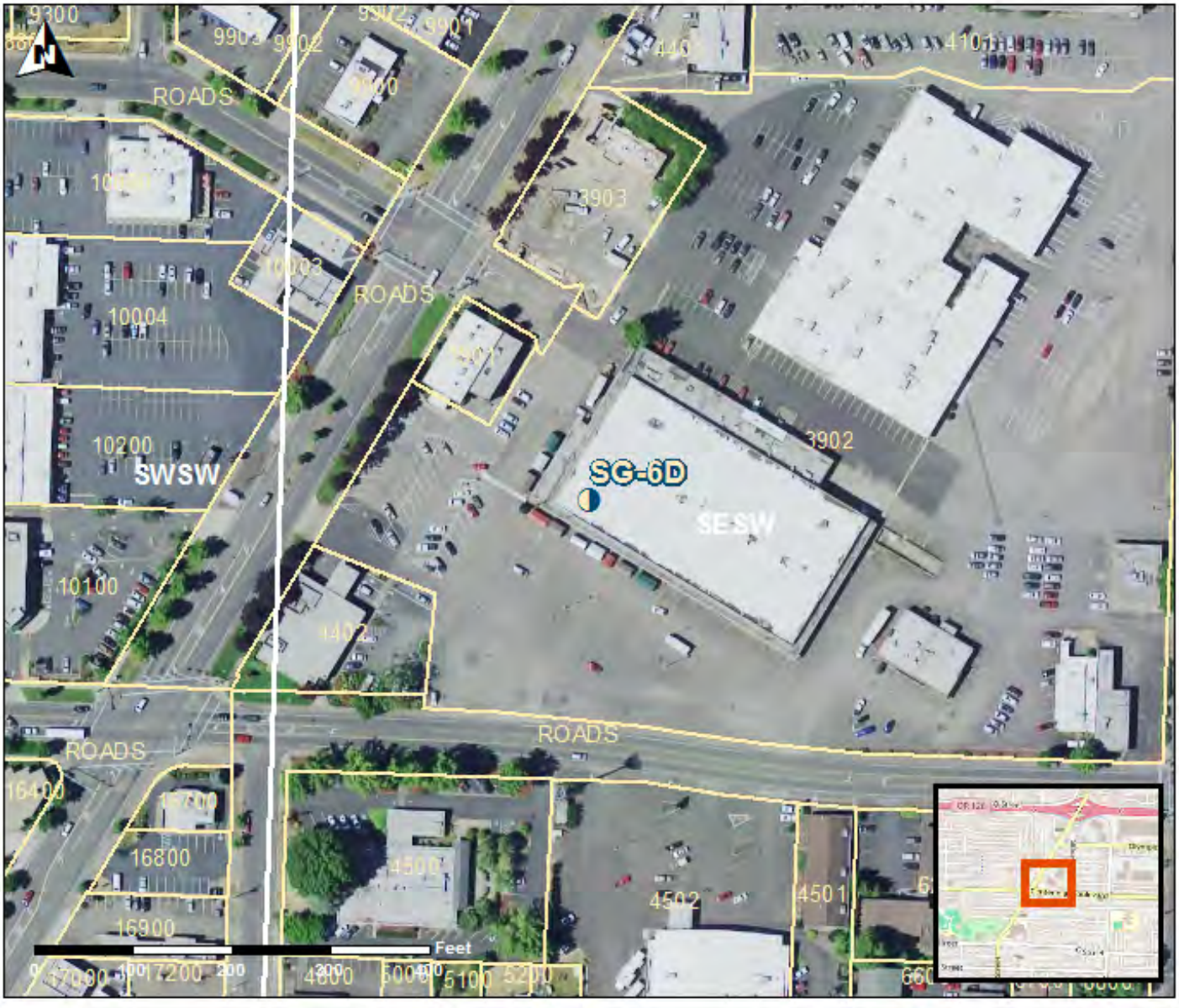
LOCATION OF WELL
Latitude: 44.05687860 Datum: WGS84
Longitude: -123.00052070
Township/Range/Section/Quarter-Quarter Section:
WM17.00S3.00W25SESW
Address of Well:
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

Hole Nbr: SG-6D

Printed: March 6, 2024

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



LANE 79416

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)

3/6/2024

(1) OWNER/PROJECT

Hole Number SG-4D

PROJECT NAME/NBR: 306-24-1022

First Name STEVEN Last Name YETT
Company
Address PO BOX 26125
City EUGENE State OR Zip 97402

(2) TYPE OF WORK

[X] New [ ] Deepening [ ] Abandonment
[ ] Alteration (repair/recondition)

(3) CONSTRUCTION

[ ] Rotary Air [ ] Hand Auger [ ] Hollow stem auger
[ ] Rotary Mud [ ] Cable [X] Push Probe
[ ] Other

(4) TYPE OF HOLE:

( ) Uncased Temporary (•) Cased Permanent
( ) Uncased Permanent ( ) Slope Stablity
( ) Other
Other:

(5) USE OF HOLE

SOIL GAS WELL

(6) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)
Depth of Completed Hole 3.50 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
2.25	0	3.5	Bentonite Chips	1	3	0.1	S

Backfill placed from 0 ft. to 1 ft. Material CONCRETE
Filter pack from 3 ft. to 3.5 ft. Material SILICA SAN Size 10/20

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
•		0.25		0.5	3	40	•			X
	•	0.25		3	3.5	40	•			X

(8) WELL TESTS

( ) Pump ( ) Bailer ( ) Air ( ) Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration(hr)

Temperature °F Lab analysis [ ] Yes By
Supervising Geologist/Engineer
Water quality concerns? [ ] Yes (describe below) TDS amount

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)

County LANE Twp 17.00 S N/S Range 3.00 W E/W WM
Sec 25 SE 1/4 of the SW 1/4 Tax Lot 3902
Tax Map Number Lot
Lat ° ' " or 44.05698800 DMS or DD
Long ° ' " or -123.00026390 DMS or DD
(•) Street address of hole ( ) Nearest address
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening			[ ]	
Completed Well			[ ]	

Flowing Artesian? [ ]
Depth water was first found

WATER BEARING ZONES

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					[ ]	
					[ ]	
					[ ]	
					[ ]	
					[ ]	

(11) SUBSURFACE LOG

Ground Elevation 467.54 FT

Material	From	To
No soil samples taken	0	3.5

Date Started 2/28/2024 Completed 2/28/2024

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/ lbs

Date Started Completed

Professional Certification

(to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).

I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License/Registration Number 10649 Date 3/6/2024
First Name KYLE Last Name KING
Affiliation CASCADE REMEDIATION SERVICES

3/6/2024

(6) BORE HOLE CONSTRUCTION

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(7) CASING/SCREENS

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		
○	○						○	○		

(8) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Permanent soil gas well installs, no samples taken.

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Material	From	To

(12) ABANDONMENT LOG

Material	From	To	Amt	sacks/ lbs

GEOTECHNICAL HOLE REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

LANE 79416

3/6/2024

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900

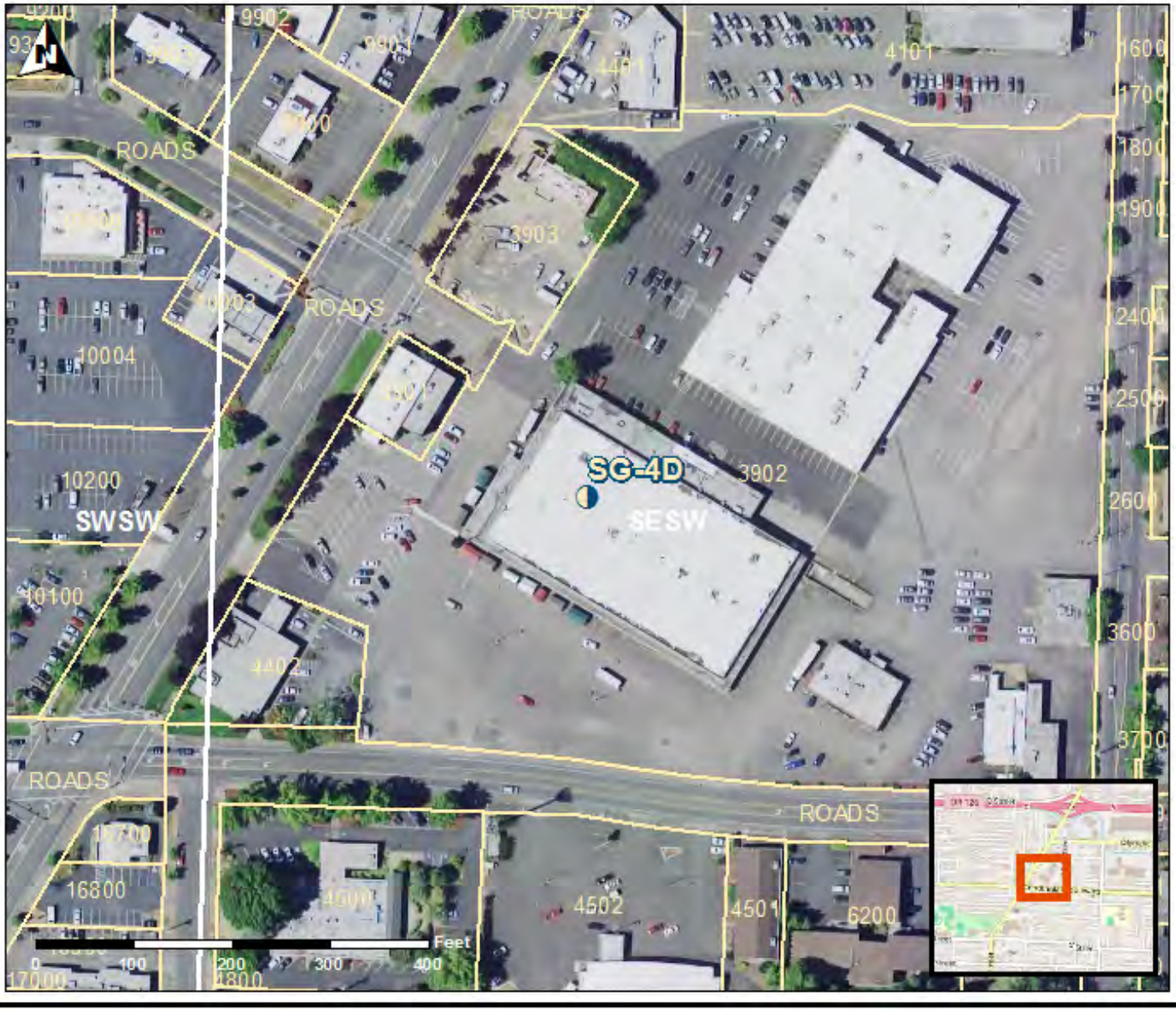
LOCATION OF WELL
Latitude: 44.05698800 Datum: WGS84
Longitude: -123.00026390
Township/Range/Section/Quarter-Quarter Section:
WM17.00S3.00W25SESW
Address of Well:
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

Hole Nbr: SG-4D

Printed: March 6, 2024

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



LANE 79417

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)

3/6/2024

(1) OWNER/PROJECT

Hole Number SG-2D

PROJECT NAME/NBR: 306-24-1022

First Name STEVEN Last Name YETT
Company
Address PO BOX 26125
City EUGENE State OR Zip 97402

(2) TYPE OF WORK

[X] New [ ] Deepening [ ] Abandonment
[ ] Alteration (repair/recondition)

(3) CONSTRUCTION

[ ] Rotary Air [ ] Hand Auger [ ] Hollow stem auger
[ ] Rotary Mud [ ] Cable [X] Push Probe
[ ] Other

(4) TYPE OF HOLE:

( ) Uncased Temporary (•) Cased Permanent
( ) Uncased Permanent ( ) Slope Stablity
( ) Other
Other:

(5) USE OF HOLE

SOIL GAS WELL

(6) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)
Depth of Completed Hole 3.50 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
2.25	0	3.5	Bentonite Chips	1	3	0.1	S

Backfill placed from 0 ft. to 1 ft. Material CONCRETE
Filter pack from 3 ft. to 3.5 ft. Material SILICA SAN Size 10/20

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
•		0.25		0.5	3	40	•			X
	•	0.25		3	3.5	40	•			X

(8) WELL TESTS

( ) Pump ( ) Bailer ( ) Air ( ) Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration(hr)

Temperature °F Lab analysis [ ] Yes By
Supervising Geologist/Engineer
Water quality concerns? [ ] Yes (describe below) TDS amount

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)

County LANE Twp 17.00 S N/S Range 3.00 W E/W WM
Sec 25 SE 1/4 of the SW 1/4 Tax Lot 3902
Tax Map Number Lot
Lat ° ' " or 44.05663480 DMS or DD
Long ° ' " or -122.99980760 DMS or DD
(•) Street address of hole ( ) Nearest address
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening			[ ]	
Completed Well			[ ]	

Flowing Artesian? [ ]
WATER BEARING ZONES
Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					[ ]	
					[ ]	
					[ ]	
					[ ]	
					[ ]	

(11) SUBSURFACE LOG

Ground Elevation 467.54 FT

Material	From	To
No soil samples taken	0	3.5

Date Started 2/28/2024 Completed 2/28/2024

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/ lbs

Date Started Completed

Professional Certification

(to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).

I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License/Registration Number 10649 Date 3/6/2024
First Name KYLE Last Name KING
Affiliation CASCADE REMEDIATION SERVICES

(6) BORE HOLE CONSTRUCTION

BORE HOLE

Dia	From	To

SEAL

Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(7) CASING/SCREENS

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(8) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Permanent soil gas well installs, no samples taken.

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Material	From	To

(12) ABANDONMENT LOG

Material	From	To	Amt	sacks/ lbs

GEOTECHNICAL HOLE REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

LANE 79417

3/6/2024

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900

OREGON WATER RESOURCES DEPARTMENT

LOCATION OF WELL

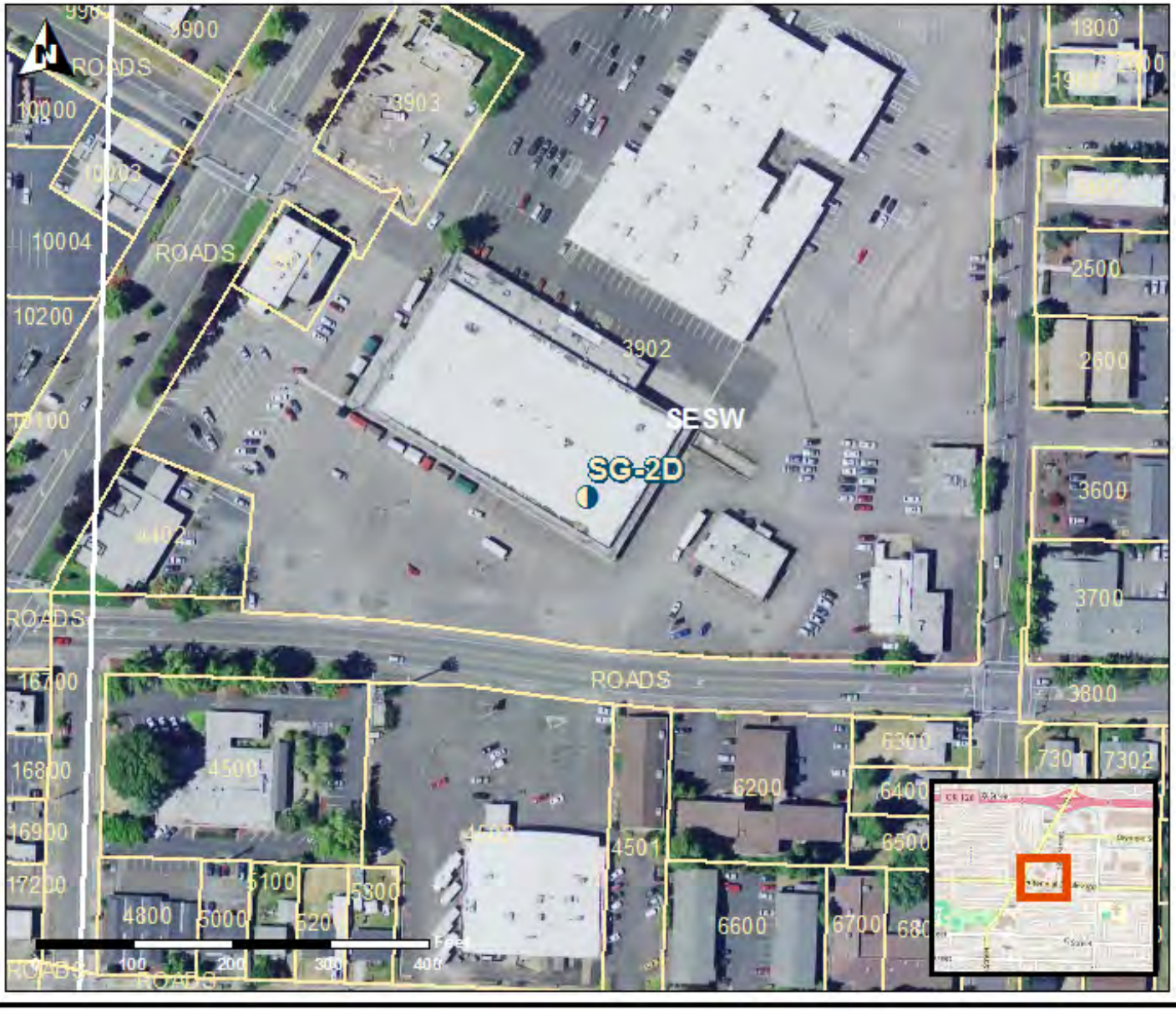
Latitude: 44.05663480 Datum: WGS84
Longitude: -122.99980760
Township/Range/Section/Quarter-Quarter Section:
WM17.00S3.00W25SESW
Address of Well:
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

Hole Nbr: SG-2D

Printed: March 6, 2024

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



LANE 79418

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)

3/6/2024

(1) OWNER/PROJECT

Hole Number SG-1D

PROJECT NAME/NBR: 306-24-1022

First Name STEVEN Last Name YETT
Company
Address PO BOX 26125
City EUGENE State OR Zip 97402

(2) TYPE OF WORK

[X] New [ ] Deepening [ ] Abandonment
[ ] Alteration (repair/recondition)

(3) CONSTRUCTION

[ ] Rotary Air [ ] Hand Auger [ ] Hollow stem auger
[ ] Rotary Mud [ ] Cable [X] Push Probe
[ ] Other

(4) TYPE OF HOLE:

( ) Uncased Temporary (•) Cased Permanent
( ) Uncased Permanent ( ) Slope Stablity
( ) Other
Other:

(5) USE OF HOLE

SOIL GAS WELL

(6) BORE HOLE CONSTRUCTION

Special Standard [ ] (Attach copy)
Depth of Completed Hole 3.50 ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
2.25	0	3.5	Bentonite Chips	1	3	0.1	S

Backfill placed from 0 ft. to 1 ft. Material CONCRETE
Filter pack from 3 ft. to 3.5 ft. Material SILICA SAN Size 10/20

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
•		0.25		0.5	3	40	•			X
	•	0.25		3	3.5	40	•			X

(8) WELL TESTS

( ) Pump ( ) Bailer ( ) Air ( ) Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration(hr)

Temperature °F Lab analysis [ ] Yes By
Supervising Geologist/Engineer
Water quality concerns? [ ] Yes (describe below) TDS amount

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)

County LANE Twp 17.00 S N/S Range 3.00 W E/W WM
Sec 25 SE 1/4 of the SW 1/4 Tax Lot 3902
Tax Map Number Lot
Lat ° ' " or 44.05685980 DMS or DD
Long ° ' " or -122.99966480 DMS or DD
(•) Street address of hole ( ) Nearest address
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening			[ ]	
Completed Well			[ ]	

Flowing Artesian? [ ]
WATER BEARING ZONES
Depth water was first found

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					[ ]	
					[ ]	
					[ ]	
					[ ]	
					[ ]	

(11) SUBSURFACE LOG

Ground Elevation 467.69 FT

Material	From	To
No soil samples taken	0	3.5

Date Started 2/28/2024 Completed 2/28/2024

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/ lbs

Date Started Completed

Professional Certification

(to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).

I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License/Registration Number 10649 Date 3/6/2024
First Name KYLE Last Name KING
Affiliation CASCADE REMEDIATION SERVICES

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version:

3/6/2024

(6) BORE HOLE CONSTRUCTION

BORE HOLE

Dia	From	To

SEAL

Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(7) CASING/SCREENS

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

(8) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

Comments/Remarks

Permanent soil gas well installs, no samples taken.

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) SUBSURFACE LOG

Material	From	To

(12) ABANDONMENT LOG

Material	From	To	Amt	sacks/ lbs

GEOTECHNICAL HOLE REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

LANE 79418

3/6/2024

Map of Hole

STATE OF OREGON
WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department
725 Summer St NE, Salem OR 97301
(503)986-0900

LOCATION OF WELL
Latitude: 44.05685980 Datum: WGS84
Longitude: -122.99966480
Township/Range/Section/Quarter-Quarter Section:
WM17.00S3.00W25SESW
Address of Well:
1459 MOHAWK BLVD SPRINGFIELD, OR 97477

Hole Nbr: SG-1D

Printed: March 6, 2024

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor

ATTACHMENT B

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-1 + SG-99 DUP	Project name: Springfield
Sample no: SG-1 + SG-99	Project no: 1176
Date: 04/ 04 /2024 Sample Time: 1218/1218	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 18 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1146 Purge stop time: 1147 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0.0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0 ppmv

Helium leak check reading: 0.0003 ppm

Sampling Device SG-1 SG-99

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30/-30 "Hg
Sample start time:	1147-1147	Summa end vacuum:	-5/-5 "Hg
Sample end time:	1218-1218	Suma container ID#:	2362 - D190
Sampling rate:	250 mL/M	Flow controler ID#:	2759 - 2657

SG-1 SG-99

Observations / Comments

Samplers Signature Date: 04/ 04 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-1D	Project name: Springfield
Sample no: SG-1D	Project no: 1176
Date: 04/ 04 /2024 Sample Time: 1332	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 15 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1234 Purge stop time: 1236 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: 6 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler: 6 Liter Summa start vacuum: -30 "Hg

Sample start time: 1239 Summa end vacuum: -5 "Hg

Sample end time: ~~1332~~ 1332 Suma container ID#: GL0139

Sampling rate: ~~JZ~~ 250 mL/M Flow controler ID#: 26572

Observations / Comments

slow collection, vac build up ⇒ slow down ⇒ ok
drops ok

Samplers Signature Date: 04/ 04 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-2	Project name: Springfield
Sample no: SG-2	Project no: 1176
Date: 04/ 04 /2024 Sample Time: 0959	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 13 "Hg Vacuum leak check duration: 2 Min

Purge start time: 0923 Purge stop time: 0927 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 2 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	0927	Summa end vacuum:	-5 "Hg
Sample end time:	0959	Suma container ID#:	6107C6
Sampling rate:	250 mL/M	Flow controler ID#:	26822

Observations / Comments

Samplers Signature Date: 04/ 04 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-2D	Project name: Springfield
Sample no: SG-2D	Project no: 1176
Date: 04/ 04 /2024 Sample Time: 0946	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 16 "Hg Vacuum leak check duration: 2 Min

Purge start time: 0909 Purge stop time: 0912 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: 0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0001 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	0912	Summa end vacuum:	-5 "Hg
Sample end time:	0946	Suma container ID#:	GL0990
Sampling rate:	250 mL/M	Flow controler ID#:	27504

Observations / Comments

Samplers Signature Date: 04/ 04 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-4	Project name: Springfield
Sample no: SG-4	Project no: 1176
Date: 04/03/2024 Sample Time: 1633	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 16 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1557 Purge stop time: 1559 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-2+ "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1559	Summa end vacuum:	-5 "Hg
Sample end time:	1633	Suma container ID#:	01567
Sampling rate:	250 mL/M	Flow controler ID#:	26593

Observations / Comments

Samplers Signature Date: 04/03/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-4D	Project name: Springfield
Sample no: SG-4D	Project no: 1176
Date: 04/03 /2024 Sample Time: 1648	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 15 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1610 Purge stop time: 1613 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: 0-2 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1613	Summa end vacuum:	-5 "Hg
Sample end time:	1648	Suma container ID#:	2344
Sampling rate:	250 mL/M	Flow controler ID#:	2698

Observations / Comments

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-5	Project name: Springfield
Sample no: SG-5	Project no: 1176
Date: 04/04/2024 Sample Time: 0732	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y/N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 13 "Hg Vacuum leak check duration: 2 Min

Purge start time: 0658 Purge stop time: 0701 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm 0.0

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	0701	Summa end vacuum:	-5 "Hg
Sample end time:	0732	Suma container ID#:	GL1620
Sampling rate:	250 mL/M	Flow controler ID#:	26584

Observations / Comments

Samplers Signature Date: 04/04/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-6	Project name: Springfield
Sample no: SG-6	Project no: 1176
Date: 04/03 /2024 Sample Time: 1540	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y/N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 14 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1505 Purge stop time: 1507 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-4 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1507	Summa end vacuum:	-6 "Hg
Sample end time:	1540	Suma container ID#:	6L1731
Sampling rate:	250 mL/M	Flow controler ID#:	27488

Observations / Comments

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-6D	Project name: Springfield
Sample no: SG-6D	Project no: 1176
Date: 04/03 /2024 Sample Time: 1531	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 15 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1451 Purge stop time: 1455 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: 0-4 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0020 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1455	Summa end vacuum:	-5 "Hg
Sample end time:	1531	Suma container ID#:	CL7920
Sampling rate:	250 mL/M	Flow controler ID#:	27497

Observations / Comments

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-7	Project name: Springfield
Sample no: SG-7	Project no: 1176
Date: 04/02/2024 Sample Time: 1732	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 11.5 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1646 Purge stop time: 1648 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: "Hg

Purge Exhaust PID Screening: Pre-Sample: 1.4 ppmV Post-Sample: 2.6 ppmv

Helium leak check reading: 0.0800 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler: 6 Liter Summa start vacuum: -30 "Hg

Sample start time: 1648 Summa end vacuum: -5 "Hg

Sample end time: 1732 Suma container ID#: GL 0779

Sampling rate: 250 mL/M Flow controler ID#: 27467

Observations / Comments

Samplers Signature Date: 04/02/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-8	Project name: Springfield
Sample no: SG-8	Project no: 1176
Date: 04/ 03 /2024 Sample Time:	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y /N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 12+ "Hg Vacuum leak check duration: 2 Min

Purge start time: 1644 Purge stop time: 1646 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0.3 "Hg

Purge Exhaust PID Screening: Pre-Sample: 1.2 ppmV Post-Sample: 1.0 ppmv

Helium leak check reading: 0.000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1646	Summa end vacuum:	-5 "Hg
Sample end time:	1726	Suma container ID#:	1664
Sampling rate:	250 mL/M	Flow controler ID#:	27470

Observations / Comments

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-9	Project name: Springfield
Sample no: SG-9	Project no: 1176
Date: 04/02/2024 Sample Time: 1208	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 10 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1133 Purge stop time: 1136 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-5 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1136	Summa end vacuum:	-5 "Hg
Sample end time:	1208	Suma container ID#:	CL0744
Sampling rate:	250 mL/M	Flow controler ID#:	26833

Observations / Comments

Samplers Signature Date: 04/02/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-11	Project name: Springfield
Sample no: SG-11	Project no: 1176
Date: 04/02/2024 Sample Time: 1311	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 12.5 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1225 Purge stop time: 1227 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.1 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0001 = 0 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1227	Summa end vacuum:	-5 "Hg
Sample end time:	1311	Suma container ID#:	CL 3163
Sampling rate:	250 mL/M	Flow controler ID#:	26987

Observations / Comments

Samplers Signature Date: 04/02/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-12	Project name: Springfield
Sample no: SG-12	Project no: 1176
Date: 04/03 /2024 Sample Time: 1227	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 15 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1152 Purge stop time: 1154 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-4 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0001 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1154	Summa end vacuum:	-6 "Hg
Sample end time:	1227	Suma container ID#:	460208
Sampling rate:	250 mL/M	Flow controler ID#:	27505

Observations / Comments

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-12D	Project name: Springfield
Sample no: SG-12D	Project no: 1176
Date: 04/03 /2024 Sample Time: 1216	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 16 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1141 Purge stop time: 1144 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: 3-4 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.000170 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1144	Summa end vacuum:	27572 "Hg
Sample end time:	1216	Suma container ID#:	4L0664
Sampling rate:	250 mL/M	Flow controler ID#:	27572

Observations / Comments

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-14	Project name: Springfield
Sample no: SG-14	Project no: 1176
Date: 04/ 04 /2024 Sample Time: 0832	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 16 "Hg Vacuum leak check duration: 2 Min

Purge start time: 0755 Purge stop time: 0757 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0001 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	0757	Summa end vacuum:	-5 "Hg
Sample end time:	0832	Suma container ID#:	AL2260
Sampling rate:	250 mL/M	Flow controler ID#:	27477

Observations / Comments

Samplers Signature Date: 04/ 04 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-15	Project name: Springfield
Sample no: SG-15	Project no: 1176
Date: 04/02 /2024 Sample Time: 1353	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y/N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 10 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1317 Purge stop time: 1319 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.3 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0008 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1319	Summa end vacuum:	-5 "Hg
Sample end time:	1353	Suma container ID#:	6L2758
Sampling rate:	250 mL/M	Flow controler ID#:	27489

Observations / Comments

Samplers Signature Date: 04/02 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-16	Project name: Springfield
Sample no: SG-16	Project no: 1176
Date: 04/03/2024 Sample Time: 0916	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 14 "Hg Vacuum leak check duration: 2 Min

Purge start time: 0842 Purge stop time: 0844 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-4 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	0844	Summa end vacuum:	-5 "Hg
Sample end time:	0916	Suma container ID#:	012732
Sampling rate:	250 mL/M	Flow controler ID#:	26959

Observations / Comments

Samplers Signature Date: 04/03/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-16D	Project name: Springfield
Sample no: SG-16D	Project no: 1176
Date: 04/ 03 /2024 Sample Time: X	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 13.5 "Hg 15 [illegible] Vacuum leak check duration: 2 Min

Purge start time: ~~0456~~ 1106 Purge stop time: ~~0558~~ 1108 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: 0 - 4 ~~022~~ "Hg -5-10 [illegible] / Z

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample:______ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	~~0558~~ 1108	Summa end vacuum:	X "Hg
Sample end time:		Suma container ID#:	GL 1853
Sampling rate:	250 mL/M	Flow controler ID#:	27512

Observations / Comments

Vac, No flow ≈ 1.5+ Min, [illegible] off [illegible] inlet, → [illegible]

retry X 3, still [illegible] Vac (from [illegible]), abort, move on

NO SAMPLE COLLECTED

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-17	Project name: Springfield
Sample no: SG-17	Project no: 1176
Date: 04/ 02 /2024 Sample Time: 1118	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 10 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1044 Purge stop time: 1046 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: "Hg

Purge Exhaust PID Screening: Pre-Sample: 1.7 ppmV Post-Sample: 0.1 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1046	Summa end vacuum:	-6 "Hg
Sample end time:	1118	Suma container ID#:	CL0299
Sampling rate:	250 mL/M	Flow controler ID#:	26498

Observations / Comments

Samplers Signature Date: 04/02/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-18	Project name: Springfield
Sample no: SG-18	Project no: 1176
Date: 04/02/2024 Sample Time: 1535	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 13 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1502 Purge stop time: 1504 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-4 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1504	Summa end vacuum:	-5 "Hg
Sample end time:	1535	Suma container ID#:	GL1221
Sampling rate:	250 mL/M	Flow controler ID#:	27332

Observations / Comments

Samplers Signature Date: 04/02/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-19	Project name: Springfield
Sample no: SG-19	Project no: 1176
Date: 04/03/2024 Sample Time: 0759	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 14 "Hg Vacuum leak check duration: 2 Min

Purge start time: 0723 Purge stop time: 0726 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: PK 0.0 (0.01-20%) ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	0726	Summa end vacuum:	-5 "Hg
Sample end time:	0759	Suma container ID#:	GL2382
Sampling rate:	250 mL/M	Flow controler ID#:	26535

Observations / Comments

Samplers Signature Date: 04/03/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-19D	Project name: Springfield
Sample no: SG-19D	Project no: 1176
Date: 04/03 /2024 Sample Time: 0822	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 14 "Hg Vacuum leak check duration: 2 Min

Purge start time: 0743 Purge stop time: 0745 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0001 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	0745	Summa end vacuum:	-5 "Hg
Sample end time:	0822	Suma container ID#:	2306
Sampling rate:	250 mL/M	Flow controler ID#:	27351

Observations / Comments

Samplers Signature Date: 04/03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-20	Project name: Springfield
Sample no: SG-20	Project no: 1176
Date: 04/02/2024 Sample Time: 1626	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y/N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: -12.5 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1554 Purge stop time: 1556 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-3 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1556	Summa end vacuum:	-6 "Hg
Sample end time:	1636	Suma container ID#:	GL3107
Sampling rate:	250 mL/M	Flow controler ID#:	27549

Observations / Comments

Samplers Signature Date: 04/02/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-21	Project name: Springfield
Sample no: SG-21	Project no: 1176
Date: 04/ 02 /2024 Sample Time: 1446	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 10 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1411 Purge stop time: 1413 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0.4 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.4 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1414	Summa end vacuum:	-6 "Hg
Sample end time:	1446	Suma container ID#:	~~2752~~ 01565 JG
Sampling rate:	250 mL/M	Flow controler ID#:	27523

Observations / Comments

Samplers Signature Date: 04/02 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-22	Project name: Springfield
Sample no: SG-22	Project no: 1176
Date: 04/ 03 /2024 Sample Time: 1044	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: ok "Hg Vacuum leak check duration: 2 Min

Purge start time: 1009 Purge stop time: 1011 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0001 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1011	Summa end vacuum:	-5 "Hg
Sample end time:	1044	Suma container ID#:	GL0716
Sampling rate:	250 mL/M	Flow controler ID#:	26546

Observations / Comments

Samplers Signature Date: 04/ 03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-23	Project name: Springfield
Sample no: SG-23	Project no: 1176
Date: 04/03/2024 Sample Time: 1329	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / [Other 5/8"]

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: [Vacuum pump] / Peristaltic pump / Hand pump / Other

Purge tubing: [New Teflon] / New Tygon / New LDPE / Other

Vacuum leak check reading: 10 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1254 Purge stop time: 1257 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: [Summa] / Tedlar bag / Syringe / Other

Volume of sampler: 6 Liter Summa start vacuum: -30 "Hg

Sample start time: 1257 Summa end vacuum: -5 "Hg

Sample end time: ~~1329~~ 1329 Suma container ID#: GL2124

Sampling rate: 250 mL/M Flow controler ID#: 27031

Observations / Comments

Samplers Signature Date: 04/03/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-24	Project name: Springfield
Sample no: SG-24	Project no: 1176
Date: 04/ 03 /2024 Sample Time: X	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: "Hg Vacuum leak check duration: 2 Min

Purge start time: 1343 Purge stop time: 1345 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-3 "Hg WATER

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: 0.0 ppmv

Helium leak check reading: 0.0001 - 0 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:		Summa end vacuum:	"Hg
Sample end time:	1345	Suma container ID#:	GL0838
Sampling rate:	250 mL/M	Flow controler ID#:	26935

Observations / Comments

Water in line, continued, about

NO SAMPLE COLLECTED

Samplers Signature Date: 04/ 03 /2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-25	Project name: Springfield
Sample no: SG-25	Project no: 1176
Date: 04/02/2024 Sample Time: 1034	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: -13 "Hg Y/2 Vacuum leak check duration: 2 Min

Purge start time: 0947 Purge stop time: 0-5 0951 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 0-5 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0 ppmV Post-Sample: 0.1 ppmv

Helium leak check reading: 0.0093 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other -28

Volume of sampler:	6 Liter	Summa start vacuum:	-28 "Hg
Sample start time:	0951	Summa end vacuum:	-5 "Hg
Sample end time:	1034	Suma container ID#:	6L 0914
Sampling rate:	250 mL/M	Flow controler ID#:	27547

Observations / Comments

Samplers Signature Date: 04/02/2024

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-16D	Project name: Springfield
Sample no: SG-16D	Project no: 1176
Date: 04/16/24 Sample Time: 1356 1356	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y / N

Purge Data

Total borehole depth: 3.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 8.5 ft X 0.005 = 0.0425 X 5 vol = 0.2125 Liters (212.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 12 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1314 Purge stop time: 1316 Purge duration: 2+ Min

Purge rate: 100 mL/M Purge vacuum: 5 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.1 ppmV Post-Sample: _____ ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-30 "Hg
Sample start time:	1316	Summa end vacuum:	-5 "Hg
Sample end time:	1356	Suma container ID#:	GL2002
Sampling rate:	250 mL/M	Flow controler ID#:	25523

Observations / Comments

Samplers Signature Date: 04/16/24

SOIL GAS
SAMPLE COLLECTION FORM

PNG Environmental, Inc.

Boring ID no: SG-24	Project name: Springfield
Sample no: SG-24	Project no: 1176
Date: 04/16/24 Sample Time: 1259	Collector: JG

Borehole Information

Borehole diameter: 0.5" / 1.0" / 2.0" / 4.0" / Other 5/8"

Ambiant Headspace reading: ppm Odor: Y (N)

Purge Data

Total borehole depth: 0.5 ft

Surface tubing length: 5 ft

Total tubing to purge: 5.5 ft X 0.005 = 0.0275 X 5 vol = 0.1375 Liters (137.5 mL)

Tubing volume 0.18" ID (1/4" OD)=0.005 lpf conversion note: 1 ft^3 = 28.32 liters

Purge Method

Pump type: Vacuum pump / Peristaltic pump / Hand pump / Other

Purge tubing: New Teflon / New Tygon / New LDPE / Other

Vacuum leak check reading: 12 "Hg Vacuum leak check duration: 2 Min

Purge start time: 1222 Purge stop time: 1224 Purge duration: 2 Min

Purge rate: 100 mL/M Purge vacuum: 2 - 2 "Hg

Purge Exhaust PID Screening: Pre-Sample: 0.0 ppmV Post-Sample: _____ ppmv

Helium leak check reading: 0.0000 ppm

Sampling Device

Device: Summa / Tedlar bag / Syringe / Other

Volume of sampler:	6 Liter	Summa start vacuum:	-27.5 "Hg
Sample start time:	1224	Summa end vacuum:	-5 "Hg
Sample end time:	1259	Suma container ID#:	CL 1663
Sampling rate:	250 mL/M	Flow controler ID#:	24623

Observations / Comments

Samplers Signature Date: 04/16/24

ATTACHMENT C

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Analysis Request /Canister Chain of Custody

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

For Laboratory Use Only
PID: _____ Workorder #: 2404177

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: PNG Environmental PID:
Project Name: Springfield
Project Manager: Guy Tarz P.O.# 1176
Sampler: Jay Griffin
Site Name: Springfield

Special Instructions/Notes:

Turnaround Time (Rush surcharges may apply)
Select TAT from drop down box

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15 LL			
01A	SG-25	GL0914	27547	040324	0951	040424	1034	-28	-5			X			
02A	SG-17	GL0299	26498		1046		1118	-30	-6			X			
03A	SG-9	GL0744	26833		1136		1208	-30	-5			X			
04A	SG-11	GL3163	26987		1227		1311	-30	-5			X			
05A	SG-15	GL2758	27489		1319		1353	-30	-5			X			
06A	SG-21	GL1865	27523		1414		1446	-30	-6			X			
07A	SG-18	GL1221	27332		1504		1535	-30	-5			X			
08A	SG-20	GL3167	27549		1556		1626	-30	-6			X			

Relinquished by: (Signature/Affiliation) PNG	Date 040324	Time ET 1900	Received by: (Signature/Affiliation) Mark Dougherty/Eurofins	Date 4/5/24	Time 9:44
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FedEx | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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4/18/2024
Mr. Guy Tanz
PNG Environmental
6665 SW Hampton St
Suite 101
Tigard OR 97223

Project Name: SPRINGFIELD
Project #:
Workorder #: 2404177

Dear Mr. Guy Tanz

The following report includes the data for the above referenced project for sample(s) received on 4/5/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Nazanin Khorrami at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Nazanin Khorrami

Nazanin Khorrami

Project Manager

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WORK ORDER #: 2404177

Work Order Summary

CLIENT:	Mr. Guy Tanz PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223	**BILL TO:**	Mr. Jay Greifer PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223
PHONE:	503-620-2387	**P.O. #**	1176
FAX:	503-620-2977	**PROJECT #**	SPRINGFIELD
DATE RECEIVED:	04/05/2024	**CONTACT:**	Nazanin Khorrami
DATE COMPLETED:	04/18/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-25	Modified TO-15	4.9 "Hg	2 psi
02A	SG-17	Modified TO-15	5.1 "Hg	1.8 psi
03A	SG-9	Modified TO-15	5.3 "Hg	2 psi
04A	SG-11	Modified TO-15	4.7 "Hg	2 psi
05A	SG-15	Modified TO-15	4.7 "Hg	1.8 psi
06A	SG-21	Modified TO-15	5.7 "Hg	1.8 psi
07A	SG-18	Modified TO-15	6.5 "Hg	1.9 psi
08A	SG-20	Modified TO-15	5.9 "Hg	1.9 psi
09A	Lab Blank	Modified TO-15	NA	NA
09B	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
10B	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA
11B	LCS	Modified TO-15	NA	NA
11BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 04/18/24

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
Modified TO-15
PNG Environmental
Workorder# 2404177

Eight 6 Liter Summa Canister (100% Certified) samples were received on April 05, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-25

Lab ID#: 2404177-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.19	0.76	1.0
Acetone	2.7	3.6	6.5	8.4
4-Methyl-2-pentanone	0.14	0.40	0.56	1.6
Tetrachloroethene	0.14	0.37	0.92	2.5
Ethyl Benzene	0.14	0.73	0.59	3.2
m,p-Xylene	0.14	2.8	0.59	12
o-Xylene	0.14	0.60	0.59	2.6
1,2,4-Trimethylbenzene	0.14	0.24	0.67	1.2
1,3-Dichlorobenzene	0.14	0.21	0.82	1.3

Client Sample ID: SG-17

Lab ID#: 2404177-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.19	0.76	1.0
Acetone	2.7	3.8	6.4	9.1
Trichloroethene	0.14	0.17	0.72	0.90
4-Methyl-2-pentanone	0.14	0.74	0.55	3.0
Tetrachloroethene	0.14	21	0.92	140
Ethyl Benzene	0.14	1.1	0.59	4.9
m,p-Xylene	0.14	4.6	0.59	20
o-Xylene	0.14	0.85	0.59	3.7
4-Ethyltoluene	0.14	0.17	0.66	0.84
1,2,4-Trimethylbenzene	0.14	0.42	0.66	2.0
1,3-Dichlorobenzene	0.14	0.71	0.81	4.3

Client Sample ID: SG-9

Lab ID#: 2404177-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.19	0.78	1.1
Acetone	2.8	4.6	6.6	11
Trichloroethene	0.14	0.25	0.74	1.3

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-9

Lab ID#: 2404177-03A

4-Methyl-2-pentanone	0.14	0.87	0.56	3.6
Tetrachloroethene	0.14	37	0.94	250
Ethyl Benzene	0.14	1.1	0.60	4.6
m,p-Xylene	0.14	4.3	0.60	19
o-Xylene	0.14	0.95	0.60	4.1
Propylbenzene	0.14	0.15	0.68	0.75
4-Ethyltoluene	0.14	0.17	0.68	0.82
1,3,5-Trimethylbenzene	0.14	0.16	0.68	0.76
1,2,4-Trimethylbenzene	0.14	0.61	0.68	3.0
1,3-Dichlorobenzene	0.14	1.0	0.83	6.2

Client Sample ID: SG-11

Lab ID#: 2404177-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.14	0.76	0.77
Acetone	2.7	4.8	6.4	11
4-Methyl-2-pentanone	0.14	0.64	0.55	2.6
Tetrachloroethene	0.14	3.0	0.92	20
Ethyl Benzene	0.14	0.73	0.59	3.2
m,p-Xylene	0.14	2.5	0.59	11
o-Xylene	0.14	0.63	0.59	2.7
Propylbenzene	0.14	0.16	0.66	0.76
4-Ethyltoluene	0.14	0.16	0.66	0.76
1,2,4-Trimethylbenzene	0.14	0.45	0.66	2.2
1,3-Dichlorobenzene	0.14	0.58	0.81	3.5

Client Sample ID: SG-15

Lab ID#: 2404177-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.22	0.75	1.2
Acetone	2.7	3.4	6.3	8.0
4-Methyl-2-pentanone	0.13	0.78	0.54	3.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-15

Lab ID#: 2404177-05A

Tetrachloroethene	0.13	0.32	0.90	2.2
Ethyl Benzene	0.13	0.51	0.58	2.2
m,p-Xylene	0.13	1.9	0.58	8.4
o-Xylene	0.13	0.63	0.58	2.7
4-Ethyltoluene	0.13	0.14	0.65	0.68
1,2,4-Trimethylbenzene	0.13	0.37	0.65	1.8
1,3-Dichlorobenzene	0.13	0.31	0.80	1.9

Client Sample ID: SG-21

Lab ID#: 2404177-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.19	0.78	1.1
Acetone	2.8	4.5	6.6	11
4-Methyl-2-pentanone	0.14	0.26	0.56	1.1
Tetrachloroethene	0.14	0.19	0.94	1.3
m,p-Xylene	0.14	0.40	0.60	1.7
o-Xylene	0.14	0.14	0.60	0.63
1,2,4-Trimethylbenzene	0.14	0.19	0.68	0.94
1,3-Dichlorobenzene	0.14	0.30	0.83	1.8

Client Sample ID: SG-18

Lab ID#: 2404177-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.19	0.81	1.0
Acetone	2.9	3.0	6.8	7.0
Trichloroethene	0.14	1.1	0.77	5.7
4-Methyl-2-pentanone	0.14	0.37	0.59	1.5
Tetrachloroethene	0.14	46	0.98	310
Ethyl Benzene	0.14	0.17	0.62	0.75
m,p-Xylene	0.14	0.66	0.62	2.9
o-Xylene	0.14	0.20	0.62	0.85
1,2,4-Trimethylbenzene	0.14	0.22	0.71	1.1

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-18

Lab ID#: 2404177-07A

1,3-Dichlorobenzene	0.14	0.42	0.86	2.5

Client Sample ID: SG-20

Lab ID#: 2404177-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.29	0.79	1.6
Acetone	2.8	4.8	6.6	11
4-Methyl-2-pentanone	0.14	0.21	0.57	0.85
Tetrachloroethene	0.14	0.40	0.95	2.7
m,p-Xylene	0.14	0.28	0.61	1.2
1,2,4-Trimethylbenzene	0.14	0.16	0.69	0.76
1,3-Dichlorobenzene	0.14	0.20	0.84	1.2

eurofins | Air Toxics

Client Sample ID: SG-25

Lab ID#: 2404177-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041616**	**Date of Collection:**	**4/2/24 10:24:00 AM**
Dil. Factor:	**1.36**	**Date of Analysis:**	**4/16/24 08:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.68	Not Detected	3.4	Not Detected
Freon 114	0.14	Not Detected	0.95	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.8	Not Detected	26	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	0.19	0.76	1.0
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	2.7	3.6	6.5	8.4
2-Propanol	2.7	Not Detected	6.7	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.68	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	8.0	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.86	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.43	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.14	Not Detected	0.73	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
1,4-Dioxane	0.68	Not Detected	2.4	Not Detected
Bromodichloromethane	0.14	Not Detected	0.91	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	0.40	0.56	1.6
Toluene	1.4	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	0.37	0.92	2.5
2-Hexanone	0.68	Not Detected	2.8	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-25

Lab ID#: 2404177-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041616**	**Date of Collection:**	**4/2/24 10:24:00 AM**
Dil. Factor:	**1.36**	**Date of Analysis:**	**4/16/24 08:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Ethyl Benzene	0.14	0.73	0.59	3.2
m,p-Xylene	0.14	2.8	0.59	12
o-Xylene	0.14	0.60	0.59	2.6
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.67	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
Propylbenzene	0.14	Not Detected	0.67	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.67	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.67	Not Detected
1,2,4-Trimethylbenzene	0.14	0.24	0.67	1.2
1,3-Dichlorobenzene	0.14	0.21	0.82	1.3
1,4-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: SG-17

Lab ID#: 2404177-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041617**	**Date of Collection:**	**4/2/24 11:18:00 AM**
Dil. Factor:	**1.35**	**Date of Analysis:**	**4/16/24 09:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.68	Not Detected	3.3	Not Detected
Freon 114	0.14	Not Detected	0.94	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.34	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.8	Not Detected	26	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	0.19	0.76	1.0
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	2.7	3.8	6.4	9.1
2-Propanol	2.7	Not Detected	6.6	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.68	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	8.0	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.85	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.43	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.14	0.17	0.72	0.90
1,2-Dichloropropane	0.14	Not Detected	0.62	Not Detected
1,4-Dioxane	0.68	Not Detected	2.4	Not Detected
Bromodichloromethane	0.14	Not Detected	0.90	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
4-Methyl-2-pentanone	0.14	0.74	0.55	3.0
Toluene	1.4	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	21	0.92	140
2-Hexanone	0.68	Not Detected	2.8	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-17

Lab ID#: 2404177-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041617**	**Date of Collection:**	**4/2/24 11:18:00 AM**
Dil. Factor:	**1.35**	**Date of Analysis:**	**4/16/24 09:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.62	Not Detected
Ethyl Benzene	0.14	1.1	0.59	4.9
m,p-Xylene	0.14	4.6	0.59	20
o-Xylene	0.14	0.85	0.59	3.7
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.66	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
Propylbenzene	0.14	Not Detected	0.66	Not Detected
4-Ethyltoluene	0.14	0.17	0.66	0.84
1,3,5-Trimethylbenzene	0.14	Not Detected	0.66	Not Detected
1,2,4-Trimethylbenzene	0.14	0.42	0.66	2.0
1,3-Dichlorobenzene	0.14	0.71	0.81	4.3
1,4-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: SG-9

Lab ID#: 2404177-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041618**	**Date of Collection:**	**4/2/24 12:08:00 PM**
Dil. Factor:	**1.38**	**Date of Analysis:**	**4/16/24 10:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.69	Not Detected	3.4	Not Detected
Freon 114	0.14	Not Detected	0.96	Not Detected
Chloromethane	0.69	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.9	Not Detected	27	Not Detected
Chloroethane	0.69	Not Detected	1.8	Not Detected
Freon 11	0.14	0.19	0.78	1.1
Ethanol	2.8	Not Detected	5.2	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	2.8	4.6	6.6	11
2-Propanol	2.8	Not Detected	6.8	Not Detected
Carbon Disulfide	6.9	Not Detected	21	Not Detected
3-Chloropropene	0.69	Not Detected	2.2	Not Detected
Methylene Chloride	0.69	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Hexane	0.69	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	Not Detected	8.1	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Tetrahydrofuran	0.69	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.67	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Cyclohexane	0.69	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.87	Not Detected
2,2,4-Trimethylpentane	0.69	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.44	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.56	Not Detected
Heptane	0.69	Not Detected	2.8	Not Detected
Trichloroethene	0.14	0.25	0.74	1.3
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
1,4-Dioxane	0.69	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.92	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	0.87	0.56	3.6
Toluene	1.4	Not Detected	5.2	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Tetrachloroethene	0.14	37	0.94	250
2-Hexanone	0.69	Not Detected	2.8	Not Detected

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Client Sample ID: SG-9

Lab ID#: 2404177-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041618**	**Date of Collection:**	**4/2/24 12:08:00 PM**
Dil. Factor:	**1.38**	**Date of Analysis:**	**4/16/24 10:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	1.1	0.60	4.6
m,p-Xylene	0.14	4.3	0.60	19
o-Xylene	0.14	0.95	0.60	4.1
Styrene	0.14	Not Detected	0.59	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.68	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.95	Not Detected
Propylbenzene	0.14	0.15	0.68	0.75
4-Ethyltoluene	0.14	0.17	0.68	0.82
1,3,5-Trimethylbenzene	0.14	0.16	0.68	0.76
1,2,4-Trimethylbenzene	0.14	0.61	0.68	3.0
1,3-Dichlorobenzene	0.14	1.0	0.83	6.2
1,4-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.71	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
1,2,4-Trichlorobenzene	0.69	Not Detected	5.1	Not Detected
Hexachlorobutadiene	0.69	Not Detected	7.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	122	70-130

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Client Sample ID: SG-11

Lab ID#: 2404177-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041619**	**Date of Collection: 4/2/24 1:11:00 PM**	
Dil. Factor:	**1.35**	**Date of Analysis: 4/16/24 10:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.68	Not Detected	3.3	Not Detected
Freon 114	0.14	Not Detected	0.94	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.34	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.8	Not Detected	26	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	0.14	0.76	0.77
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	2.7	4.8	6.4	11
2-Propanol	2.7	Not Detected	6.6	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.68	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	8.0	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.85	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.43	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.14	Not Detected	0.72	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.62	Not Detected
1,4-Dioxane	0.68	Not Detected	2.4	Not Detected
Bromodichloromethane	0.14	Not Detected	0.90	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
4-Methyl-2-pentanone	0.14	0.64	0.55	2.6
Toluene	1.4	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	3.0	0.92	20
2-Hexanone	0.68	Not Detected	2.8	Not Detected

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Client Sample ID: SG-11

Lab ID#: 2404177-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041619**	**Date of Collection: 4/2/24 1:11:00 PM**	
Dil. Factor:	**1.35**	**Date of Analysis: 4/16/24 10:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.62	Not Detected
Ethyl Benzene	0.14	0.73	0.59	3.2
m,p-Xylene	0.14	2.5	0.59	11
o-Xylene	0.14	0.63	0.59	2.7
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.66	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
Propylbenzene	0.14	0.16	0.66	0.76
4-Ethyltoluene	0.14	0.16	0.66	0.76
1,3,5-Trimethylbenzene	0.14	Not Detected	0.66	Not Detected
1,2,4-Trimethylbenzene	0.14	0.45	0.66	2.2
1,3-Dichlorobenzene	0.14	0.58	0.81	3.5
1,4-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	118	70-130

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Client Sample ID: SG-15

Lab ID#: 2404177-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041708**	**Date of Collection:**	**4/2/24 1:53:00 PM**
Dil. Factor:	**1.33**	**Date of Analysis:**	**4/17/24 02:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.13	Not Detected	0.93	Not Detected
Chloromethane	0.66	Not Detected	1.4	Not Detected
Vinyl Chloride	0.13	Not Detected	0.34	Not Detected
1,3-Butadiene	0.13	Not Detected	0.29	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	0.66	Not Detected	1.8	Not Detected
Freon 11	0.13	0.22	0.75	1.2
Ethanol	2.7	Not Detected	5.0	Not Detected
Freon 113	0.13	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Acetone	2.7	3.4	6.3	8.0
2-Propanol	2.7	Not Detected	6.5	Not Detected
Carbon Disulfide	6.6	Not Detected	21	Not Detected
3-Chloropropene	0.66	Not Detected	2.1	Not Detected
Methylene Chloride	0.66	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Hexane	0.66	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	7.8	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Tetrahydrofuran	0.66	Not Detected	2.0	Not Detected
Chloroform	0.13	Not Detected	0.65	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.84	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Benzene	0.13	Not Detected	0.42	Not Detected
1,2-Dichloroethane	0.13	Not Detected	0.54	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.13	Not Detected	0.71	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.61	Not Detected
1,4-Dioxane	0.66	Not Detected	2.4	Not Detected
Bromodichloromethane	0.13	Not Detected	0.89	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
4-Methyl-2-pentanone	0.13	0.78	0.54	3.2
Toluene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Tetrachloroethene	0.13	0.32	0.90	2.2
2-Hexanone	0.66	Not Detected	2.7	Not Detected

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Client Sample ID: SG-15

Lab ID#: 2404177-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041708**	**Date of Collection:**	**4/2/24 1:53:00 PM**
Dil. Factor:	**1.33**	**Date of Analysis:**	**4/17/24 02:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	1.0	Not Detected
Chlorobenzene	0.13	Not Detected	0.61	Not Detected
Ethyl Benzene	0.13	0.51	0.58	2.2
m,p-Xylene	0.13	1.9	0.58	8.4
o-Xylene	0.13	0.63	0.58	2.7
Styrene	0.13	Not Detected	0.57	Not Detected
Bromoform	0.13	Not Detected	1.4	Not Detected
Cumene	0.13	Not Detected	0.65	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.91	Not Detected
Propylbenzene	0.13	Not Detected	0.65	Not Detected
4-Ethyltoluene	0.13	0.14	0.65	0.68
1,3,5-Trimethylbenzene	0.13	Not Detected	0.65	Not Detected
1,2,4-Trimethylbenzene	0.13	0.37	0.65	1.8
1,3-Dichlorobenzene	0.13	0.31	0.80	1.9
1,4-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.69	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,2,4-Trichlorobenzene	0.66	Not Detected	4.9	Not Detected
Hexachlorobutadiene	0.66	Not Detected	7.1	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	122	70-130

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Client Sample ID: SG-21

Lab ID#: 2404177-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041709**	**Date of Collection:**	**4/2/24 2:46:00 PM**
Dil. Factor:	**1.38**	**Date of Analysis:**	**4/17/24 03:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.69	Not Detected	3.4	Not Detected
Freon 114	0.14	Not Detected	0.96	Not Detected
Chloromethane	0.69	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.9	Not Detected	27	Not Detected
Chloroethane	0.69	Not Detected	1.8	Not Detected
Freon 11	0.14	0.19	0.78	1.1
Ethanol	2.8	Not Detected	5.2	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	2.8	4.5	6.6	11
2-Propanol	2.8	Not Detected	6.8	Not Detected
Carbon Disulfide	6.9	Not Detected	21	Not Detected
3-Chloropropene	0.69	Not Detected	2.2	Not Detected
Methylene Chloride	0.69	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Hexane	0.69	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	Not Detected	8.1	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Tetrahydrofuran	0.69	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.67	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Cyclohexane	0.69	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.87	Not Detected
2,2,4-Trimethylpentane	0.69	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.44	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.56	Not Detected
Heptane	0.69	Not Detected	2.8	Not Detected
Trichloroethene	0.14	Not Detected	0.74	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
1,4-Dioxane	0.69	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.92	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	0.26	0.56	1.1
Toluene	1.4	Not Detected	5.2	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Tetrachloroethene	0.14	0.19	0.94	1.3
2-Hexanone	0.69	Not Detected	2.8	Not Detected

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Client Sample ID: SG-21

Lab ID#: 2404177-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041709**	**Date of Collection:**	**4/2/24 2:46:00 PM**
Dil. Factor:	**1.38**	**Date of Analysis:**	**4/17/24 03:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	Not Detected	0.60	Not Detected
m,p-Xylene	0.14	0.40	0.60	1.7
o-Xylene	0.14	0.14	0.60	0.63
Styrene	0.14	Not Detected	0.59	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.68	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.95	Not Detected
Propylbenzene	0.14	Not Detected	0.68	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.68	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.68	Not Detected
1,2,4-Trimethylbenzene	0.14	0.19	0.68	0.94
1,3-Dichlorobenzene	0.14	0.30	0.83	1.8
1,4-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.71	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
1,2,4-Trichlorobenzene	0.69	Not Detected	5.1	Not Detected
Hexachlorobutadiene	0.69	Not Detected	7.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	126	70-130

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Client Sample ID: SG-18

Lab ID#: 2404177-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041710**	**Date of Collection:**	**4/2/24 3:35:00 PM**
Dil. Factor:	**1.44**	**Date of Analysis:**	**4/17/24 03:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.72	Not Detected	3.6	Not Detected
Freon 114	0.14	Not Detected	1.0	Not Detected
Chloromethane	0.72	Not Detected	1.5	Not Detected
Vinyl Chloride	0.14	Not Detected	0.37	Not Detected
1,3-Butadiene	0.14	Not Detected	0.32	Not Detected
Bromomethane	7.2	Not Detected	28	Not Detected
Chloroethane	0.72	Not Detected	1.9	Not Detected
Freon 11	0.14	0.19	0.81	1.0
Ethanol	2.9	Not Detected	5.4	Not Detected
Freon 113	0.14	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Acetone	2.9	3.0	6.8	7.0
2-Propanol	2.9	Not Detected	7.1	Not Detected
Carbon Disulfide	7.2	Not Detected	22	Not Detected
3-Chloropropene	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	0.72	Not Detected	2.5	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Hexane	0.72	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.58	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.9	Not Detected	8.5	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Tetrahydrofuran	0.72	Not Detected	2.1	Not Detected
Chloroform	0.14	Not Detected	0.70	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.78	Not Detected
Cyclohexane	0.72	Not Detected	2.5	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.91	Not Detected
2,2,4-Trimethylpentane	0.72	Not Detected	3.4	Not Detected
Benzene	0.14	Not Detected	0.46	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.58	Not Detected
Heptane	0.72	Not Detected	3.0	Not Detected
Trichloroethene	0.14	1.1	0.77	5.7
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
1,4-Dioxane	0.72	Not Detected	2.6	Not Detected
Bromodichloromethane	0.14	Not Detected	0.96	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
4-Methyl-2-pentanone	0.14	0.37	0.59	1.5
Toluene	1.4	Not Detected	5.4	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.78	Not Detected
Tetrachloroethene	0.14	46	0.98	310
2-Hexanone	0.72	Not Detected	2.9	Not Detected

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Client Sample ID: SG-18

Lab ID#: 2404177-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041710**	**Date of Collection:**	**4/2/24 3:35:00 PM**
Dil. Factor:	**1.44**	**Date of Analysis:**	**4/17/24 03:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.66	Not Detected
Ethyl Benzene	0.14	0.17	0.62	0.75
m,p-Xylene	0.14	0.66	0.62	2.9
o-Xylene	0.14	0.20	0.62	0.85
Styrene	0.14	Not Detected	0.61	Not Detected
Bromoform	0.14	Not Detected	1.5	Not Detected
Cumene	0.14	Not Detected	0.71	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.99	Not Detected
Propylbenzene	0.14	Not Detected	0.71	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.71	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.71	Not Detected
1,2,4-Trimethylbenzene	0.14	0.22	0.71	1.1
1,3-Dichlorobenzene	0.14	0.42	0.86	2.5
1,4-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.74	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,2,4-Trichlorobenzene	0.72	Not Detected	5.3	Not Detected
Hexachlorobutadiene	0.72	Not Detected	7.7	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	124	70-130

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Client Sample ID: SG-20

Lab ID#: 2404177-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041711**	**Date of Collection:**	**4/2/24 4:26:00 PM**
Dil. Factor:	**1.40**	**Date of Analysis:**	**4/17/24 04:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.70	Not Detected	3.5	Not Detected
Freon 114	0.14	Not Detected	0.98	Not Detected
Chloromethane	0.70	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
1,3-Butadiene	0.14	Not Detected	0.31	Not Detected
Bromomethane	7.0	Not Detected	27	Not Detected
Chloroethane	0.70	Not Detected	1.8	Not Detected
Freon 11	0.14	0.29	0.79	1.6
Ethanol	2.8	Not Detected	5.3	Not Detected
Freon 113	0.14	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Acetone	2.8	4.8	6.6	11
2-Propanol	2.8	Not Detected	6.9	Not Detected
Carbon Disulfide	7.0	Not Detected	22	Not Detected
3-Chloropropene	0.70	Not Detected	2.2	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Hexane	0.70	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	Not Detected	8.2	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.1	Not Detected
Chloroform	0.14	Not Detected	0.68	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.88	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.3	Not Detected
Benzene	0.14	Not Detected	0.45	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.57	Not Detected
Heptane	0.70	Not Detected	2.9	Not Detected
Trichloroethene	0.14	Not Detected	0.75	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.65	Not Detected
1,4-Dioxane	0.70	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.94	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
4-Methyl-2-pentanone	0.14	0.21	0.57	0.85
Toluene	1.4	Not Detected	5.3	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Tetrachloroethene	0.14	0.40	0.95	2.7
2-Hexanone	0.70	Not Detected	2.9	Not Detected

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Client Sample ID: SG-20

Lab ID#: 2404177-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041711**	**Date of Collection:**	**4/2/24 4:26:00 PM**
Dil. Factor:	**1.40**	**Date of Analysis:**	**4/17/24 04:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	Not Detected	0.61	Not Detected
m,p-Xylene	0.14	0.28	0.61	1.2
o-Xylene	0.14	Not Detected	0.61	Not Detected
Styrene	0.14	Not Detected	0.60	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.69	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.96	Not Detected
Propylbenzene	0.14	Not Detected	0.69	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.69	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.69	Not Detected
1,2,4-Trimethylbenzene	0.14	0.16	0.69	0.76
1,3-Dichlorobenzene	0.14	0.20	0.84	1.2
1,4-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.72	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected
Hexachlorobutadiene	0.70	Not Detected	7.5	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	128	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2404177-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041606c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 12:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2404177-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041606c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 12:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2404177-09B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041706c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 12:22 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2404177-09B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041706c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 12:22 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: CCV

Lab ID#: 2404177-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 09:26 AM**

Compound	%Recovery
Freon 12	101
Freon 114	99
Chloromethane	82
Vinyl Chloride	94
1,3-Butadiene	94
Bromomethane	93
Chloroethane	92
Freon 11	102
Ethanol	84
Freon 113	98
1,1-Dichloroethene	102
Acetone	88
2-Propanol	94
Carbon Disulfide	100
3-Chloropropene	110
Methylene Chloride	93
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	104
Hexane	108
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	101
Tetrahydrofuran	97
Chloroform	98
1,1,1-Trichloroethane	100
Cyclohexane	114
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	106
Benzene	94
1,2-Dichloroethane	92
Heptane	98
Trichloroethene	99
1,2-Dichloropropane	93
1,4-Dioxane	113
Bromodichloromethane	100
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	104
Toluene	98
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	98
Tetrachloroethene	104
2-Hexanone	112

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Client Sample ID: CCV

Lab ID#: 2404177-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 09:26 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	101
Chlorobenzene	102
Ethyl Benzene	110
m,p-Xylene	116
o-Xylene	117
Styrene	119
Bromoform	99
Cumene	117
1,1,2,2-Tetrachloroethane	85
Propylbenzene	112
4-Ethyltoluene	115
1,3,5-Trimethylbenzene	119
1,2,4-Trimethylbenzene	121
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: CCV

Lab ID#: 2404177-10B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041702**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 09:33 AM**

Compound	%Recovery
Freon 12	100
Freon 114	100
Chloromethane	92
Vinyl Chloride	95
1,3-Butadiene	95
Bromomethane	97
Chloroethane	89
Freon 11	102
Ethanol	86
Freon 113	99
1,1-Dichloroethene	103
Acetone	87
2-Propanol	97
Carbon Disulfide	101
3-Chloropropene	95
Methylene Chloride	94
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	105
Hexane	108
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	102
Tetrahydrofuran	97
Chloroform	99
1,1,1-Trichloroethane	100
Cyclohexane	113
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	103
Benzene	96
1,2-Dichloroethane	93
Heptane	99
Trichloroethene	100
1,2-Dichloropropane	95
1,4-Dioxane	115
Bromodichloromethane	105
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	106
Toluene	99
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	106
Tetrachloroethene	110
2-Hexanone	116

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Client Sample ID: CCV

Lab ID#: 2404177-10B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 09:33 AM**	

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	106
Chlorobenzene	104
Ethyl Benzene	115
m,p-Xylene	122
o-Xylene	123
Styrene	125
Bromoform	104
Cumene	122
1,1,2,2-Tetrachloroethane	90
Propylbenzene	120
4-Ethyltoluene	124
1,3,5-Trimethylbenzene	127
1,2,4-Trimethylbenzene	128
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: LCS

Lab ID#: 2404177-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 10:16 AM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	91	70-130
Chloromethane	86	70-130
Vinyl Chloride	89	70-130
1,3-Butadiene	89	70-130
Bromomethane	94	70-130
Chloroethane	84	70-130
Freon 11	95	70-130
Ethanol	95	70-130
Freon 113	89	70-130
1,1-Dichloroethene	92	70-130
Acetone	84	70-130
2-Propanol	96	70-130
Carbon Disulfide	96	70-130
3-Chloropropene	79	70-130
Methylene Chloride	85	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	101	70-130
1,1-Dichloroethane	89	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	96	70-130
Tetrahydrofuran	94	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	95	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	80	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	87	70-130
1,2-Dichloroethane	85	70-130
Heptane	97	70-130
Trichloroethene	93	70-130
1,2-Dichloropropane	86	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	91	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	92	70-130
Toluene	92	70-130
trans-1,3-Dichloropropene	93	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	98	70-130
2-Hexanone	94	70-130

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Client Sample ID: LCS

Lab ID#: 2404177-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 10:16 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	93	70-130
1,2-Dibromoethane (EDB)	93	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	107	70-130
o-Xylene	108	70-130
Styrene	110	70-130
Bromoform	90	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	79	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	92	70-130
alpha-Chlorotoluene	92	70-130
1,2-Dichlorobenzene	86	70-130
1,2,4-Trichlorobenzene	85	70-130
Hexachlorobutadiene	91	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2404177-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 10:56 AM**	

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	89	70-130
Chloromethane	82	70-130
Vinyl Chloride	86	70-130
1,3-Butadiene	87	70-130
Bromomethane	89	70-130
Chloroethane	82	70-130
Freon 11	94	70-130
Ethanol	92	70-130
Freon 113	86	70-130
1,1-Dichloroethene	90	70-130
Acetone	83	70-130
2-Propanol	92	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	80	70-130
Methylene Chloride	84	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	92	70-130
Hexane	98	70-130
1,1-Dichloroethane	87	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	92	70-130
Tetrahydrofuran	95	70-130
Chloroform	88	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	78	70-130
2,2,4-Trimethylpentane	92	70-130
Benzene	86	70-130
1,2-Dichloroethane	86	70-130
Heptane	88	70-130
Trichloroethene	92	70-130
1,2-Dichloropropane	84	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	84	70-130
trans-1,3-Dichloropropene	101	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	102	70-130
2-Hexanone	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2404177-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 10:56 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	108	70-130
o-Xylene	112	70-130
Styrene	110	70-130
Bromoform	98	70-130
Cumene	113	70-130
1,1,2,2-Tetrachloroethane	88	70-130
Propylbenzene	114	70-130
4-Ethyltoluene	117	70-130
1,3,5-Trimethylbenzene	123	70-130
1,2,4-Trimethylbenzene	124	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	99	70-130
alpha-Chlorotoluene	88	70-130
1,2-Dichlorobenzene	90	70-130
1,2,4-Trichlorobenzene	90	70-130
Hexachlorobutadiene	94	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2404177-11B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 10:23 AM**	

Compound	%Recovery	Method Limits
Freon 12	91	70-130
Freon 114	90	70-130
Chloromethane	92	70-130
Vinyl Chloride	96	70-130
1,3-Butadiene	98	70-130
Bromomethane	101	70-130
Chloroethane	94	70-130
Freon 11	95	70-130
Ethanol	105	70-130
Freon 113	88	70-130
1,1-Dichloroethene	95	70-130
Acetone	92	70-130
2-Propanol	104	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	97	70-130
Methylene Chloride	89	70-130
Methyl tert-butyl ether	106	70-130
trans-1,2-Dichloroethene	98	70-130
Hexane	107	70-130
1,1-Dichloroethane	92	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	96	70-130
Tetrahydrofuran	102	70-130
Chloroform	91	70-130
1,1,1-Trichloroethane	93	70-130
Cyclohexane	112	70-130
Carbon Tetrachloride	78	70-130
2,2,4-Trimethylpentane	105	70-130
Benzene	90	70-130
1,2-Dichloroethane	83	70-130
Heptane	98	70-130
Trichloroethene	92	70-130
1,2-Dichloropropane	88	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	93	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	90	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	97	70-130
2-Hexanone	102	70-130

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Client Sample ID: LCS

Lab ID#: 2404177-11B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 10:23 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	94	70-130
1,2-Dibromoethane (EDB)	96	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	109	70-130
o-Xylene	109	70-130
Styrene	109	70-130
Bromoform	90	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	80	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	102	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	108	70-130
1,3-Dichlorobenzene	89	70-130
1,4-Dichlorobenzene	90	70-130
alpha-Chlorotoluene	87	70-130
1,2-Dichlorobenzene	84	70-130
1,2,4-Trichlorobenzene	85	70-130
Hexachlorobutadiene	89	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 2404177-11BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 11:03 AM**	

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	92	70-130
Chloromethane	97	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	89	70-130
Bromomethane	97	70-130
Chloroethane	84	70-130
Freon 11	97	70-130
Ethanol	95	70-130
Freon 113	90	70-130
1,1-Dichloroethene	94	70-130
Acetone	85	70-130
2-Propanol	97	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	94	70-130
Methylene Chloride	86	70-130
Methyl tert-butyl ether	105	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	101	70-130
1,1-Dichloroethane	90	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	95	70-130
Tetrahydrofuran	96	70-130
Chloroform	91	70-130
1,1,1-Trichloroethane	94	70-130
Cyclohexane	110	70-130
Carbon Tetrachloride	80	70-130
2,2,4-Trimethylpentane	99	70-130
Benzene	87	70-130
1,2-Dichloroethane	86	70-130
Heptane	92	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	84	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	93	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	91	70-130
Toluene	89	70-130
trans-1,3-Dichloropropene	96	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	98	70-130
2-Hexanone	95	70-130

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Client Sample ID: LCSD

Lab ID#: 2404177-11BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 11:03 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	96	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	101	70-130
o-Xylene	105	70-130
Styrene	103	70-130
Bromoform	93	70-130
Cumene	106	70-130
1,1,2,2-Tetrachloroethane	84	70-130
Propylbenzene	109	70-130
4-Ethyltoluene	109	70-130
1,3,5-Trimethylbenzene	114	70-130
1,2,4-Trimethylbenzene	116	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	91	70-130
alpha-Chlorotoluene	82	70-130
1,2-Dichlorobenzene	84	70-130
1,2,4-Trichlorobenzene	82	70-130
Hexachlorobutadiene	89	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

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For Laboratory Use Only

PID: _____ Workorder #: 2404202

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: PG&E Enviro PID: _____
Project Name: Springfield
Project Manager: Guy Tarz P.O.# 1176
Sampler: Dan Greiker
Site Name: Springfield

Special Instructions/Notes:

Turnaround Time (Rush surcharges may apply)
Select TAT from drop down box

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15 LL			
01A	SG-7	GL0779	27467	040324	1648	040324	1732	-30	-5			X			
02A	SG-19	GL2392	26555	040324	0726	040324	0759	-30	-5			X			
03A	SG-19D	2306	27351		0745		0822	-30	-5			X			
04A	SG-16	GL2732	26459		0844		0916	-30	-5			X			
~~—~~	~~SG-10D~~	~~GL1853~~	~~27512~~		~~0853~~			-30				—			
05A	SG-22	GL0716	26946		1011		1044	-30	-5			X			
06A	SG-12D	GL0664	27572		1144		1216	-30	-6			X			
07A	SG-12	GL0205	27505		1154		1227	-30	-6			X			
08A	SG-23	GL2124	27031		1257		1329	-30	-5			X			
~~—~~	~~SG-24~~	~~GL0933~~	~~26955~~									—			
09A	SG-6D	GL2920	27497		1455		1531	-30	-5			X			
10A	SG-6	GL1731	27495		1507		1540	-30	-6			X			
11A	SG-4	GL1367	26593		1559		1633	-30	-5			X			
12A	SG-4D	2344	26981	—	1613	—	1648	-30	-5			X			

ZL0664

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	040324	~1900 ET	EATL	4/8/24	0911
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FED EX | Custody Seals Intact? | Yes | No | None (circled)

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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4/19/2024
Mr. Guy Tanz
PNG Environmental
6665 SW Hampton St
Suite 101
Tigard OR 97223

Project Name: SPRINGFIELD
Project #:
Workorder #: 2404202A

Dear Mr. Guy Tanz

The following report includes the data for the above referenced project for sample(s) received on 4/8/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Nazanin Khorrami at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Nazanin Khorrami

Nazanin Khorrami

Project Manager

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WORK ORDER #: 2404202A

Work Order Summary

CLIENT:	Mr. Guy Tanz PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223	**BILL TO:**	Mr. Guy Tanz PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223
PHONE:	503-620-2387	**P.O. #**	1176
FAX:	503-620-2977	**PROJECT #**	SPRINGFIELD
DATE RECEIVED:	04/08/2024	**CONTACT:**	Nazanin Khorrami
DATE COMPLETED:	04/19/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-7	Modified TO-15	5.3 "Hg	1.9 psi
02A	SG-19	Modified TO-15	3.7 "Hg	1.8 psi
03A	SG-19D	Modified TO-15	5.1 "Hg	2.2 psi
04A	SG-16	Modified TO-15	4.1 "Hg	1.7 psi
05A	SG-22	Modified TO-15	4.3 "Hg	1.9 psi
06A	SG-12D	Modified TO-15	5.1 "Hg	1.8 psi
07A	SG-12	Modified TO-15	4.5 "Hg	1.9 psi
08A	SG-23	Modified TO-15	4.9 "Hg	2 psi
09A	SG-6D	Modified TO-15	4.3 "Hg	1.9 psi
10A	SG-6	Modified TO-15	4.7 "Hg	1.8 psi
11A	SG-4	Modified TO-15	3.9 "Hg	2 psi
12A	SG-4D	Modified TO-15	4.3 "Hg	1.8 psi
13A	Lab Blank	Modified TO-15	NA	NA
14A	CCV	Modified TO-15	NA	NA
15A	LCS	Modified TO-15	NA	NA
15AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 04/19/24

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
Modified TO-15
PNG Environmental
Workorder# 2404202A

Twelve 6 Liter Summa Canister (100% Certified) samples were received on April 08, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples SG-4 and SG-4D due to the presence of high level target species.

The presence of a closely eluting non-target peak in samples SG-12 and SG-6D is interfering with the quantitation mass ion for 4-Ethyltoluene. The reported 4-Ethyltoluene concentration is flagged with a "CN" flag to indicate a high bias due to matrix contribution.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-7

Lab ID#: 2404202A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	24	0.77	130
Acetone	2.7	3.1	6.5	7.4
4-Methyl-2-pentanone	0.14	0.24	0.56	1.0
Tetrachloroethene	0.14	1.2	0.93	8.4
Ethyl Benzene	0.14	0.20	0.59	0.86
m,p-Xylene	0.14	0.81	0.59	3.5
o-Xylene	0.14	0.20	0.59	0.85
1,3-Dichlorobenzene	0.14	0.18	0.82	1.1

Client Sample ID: SG-19

Lab ID#: 2404202A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.19	0.72	1.1
Acetone	2.6	2.9	6.1	6.8
Trichloroethene	0.13	0.45	0.69	2.4
4-Methyl-2-pentanone	0.13	0.44	0.52	1.8
Tetrachloroethene	0.13	7.1	0.87	48
Ethyl Benzene	0.13	0.45	0.56	2.0
m,p-Xylene	0.13	1.6	0.56	7.0
o-Xylene	0.13	0.35	0.56	1.5
1,2,4-Trimethylbenzene	0.13	0.22	0.63	1.0
1,3-Dichlorobenzene	0.13	0.26	0.77	1.6

Client Sample ID: SG-19D

Lab ID#: 2404202A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.14	0.78	0.81
Acetone	2.8	4.0	6.6	9.4
4-Methyl-2-pentanone	0.14	0.62	0.56	2.6
Tetrachloroethene	0.14	29	0.94	200
Ethyl Benzene	0.14	0.69	0.60	3.0

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-19D

Lab ID#: 2404202A-03A

m,p-Xylene	0.14	2.9	0.60	13
o-Xylene	0.14	0.68	0.60	3.0
1,2,4-Trimethylbenzene	0.14	0.18	0.68	0.90
1,3-Dichlorobenzene	0.14	0.32	0.83	1.9

Client Sample ID: SG-16

Lab ID#: 2404202A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.21	0.72	1.2
4-Methyl-2-pentanone	0.13	0.30	0.53	1.2
Tetrachloroethene	0.13	1.6	0.88	11
Ethyl Benzene	0.13	0.41	0.56	1.8
m,p-Xylene	0.13	1.7	0.56	7.3
o-Xylene	0.13	0.42	0.56	1.8
1,3-Dichlorobenzene	0.13	0.37	0.78	2.2

Client Sample ID: SG-22

Lab ID#: 2404202A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.18	0.74	1.0
Trichloroethene	0.13	0.21	0.71	1.1
4-Methyl-2-pentanone	0.13	0.21	0.54	0.84
Tetrachloroethene	0.13	23	0.90	160
Ethyl Benzene	0.13	0.17	0.57	0.72
m,p-Xylene	0.13	0.56	0.57	2.4
o-Xylene	0.13	0.18	0.57	0.79
1,3-Dichlorobenzene	0.13	0.14	0.79	0.87

Client Sample ID: SG-12D

Lab ID#: 2404202A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-12D

Lab ID#: 2404202A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.14	22	0.34	57
Acetone	2.7	2.8	6.4	6.7
trans-1,2-Dichloroethene	0.14	0.21	0.54	0.82
Hexane	0.68	1.5	2.4	5.4
cis-1,2-Dichloroethene	0.14	7.3	0.54	29
Benzene	0.14	1.5	0.43	4.9
Heptane	0.68	1.1	2.8	4.6
Tetrachloroethene	0.14	0.14	0.92	0.93
Ethyl Benzene	0.14	0.26	0.59	1.1
m,p-Xylene	0.14	0.79	0.59	3.4
o-Xylene	0.14	0.25	0.59	1.1
1,2,4-Trimethylbenzene	0.14	0.32	0.66	1.6

Client Sample ID: SG-12

Lab ID#: 2404202A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.18	0.75	0.99
Acetone	2.7	2.8	6.3	6.7
Benzene	0.13	0.16	0.42	0.50
4-Methyl-2-pentanone	0.13	0.43	0.54	1.8
Tetrachloroethene	0.13	0.13	0.90	0.90
Ethyl Benzene	0.13	0.39	0.58	1.7
m,p-Xylene	0.13	1.5	0.58	6.5
o-Xylene	0.13	0.45	0.58	2.0
4-Ethyltoluene	0.13	0.23 CN	0.65	1.1 CN
1,2,4-Trimethylbenzene	0.13	0.19	0.65	0.94
1,3-Dichlorobenzene	0.13	0.28	0.80	1.7

Client Sample ID: SG-23

Lab ID#: 2404202A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-23

Lab ID#: 2404202A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.21	0.76	1.2
Trichloroethene	0.14	0.32	0.73	1.7
4-Methyl-2-pentanone	0.14	0.47	0.56	1.9
Tetrachloroethene	0.14	11	0.92	76
Ethyl Benzene	0.14	0.31	0.59	1.3
m,p-Xylene	0.14	1.2	0.59	5.3
o-Xylene	0.14	0.36	0.59	1.6
1,2,4-Trimethylbenzene	0.14	0.18	0.67	0.88
1,3-Dichlorobenzene	0.14	0.40	0.82	2.4

Client Sample ID: SG-6D

Lab ID#: 2404202A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.30	0.74	1.7
Ethanol	2.6	3.4	5.0	6.4
Acetone	2.6	41	6.3	97
Benzene	0.13	0.38	0.42	1.2
4-Methyl-2-pentanone	0.13	1.2	0.54	5.0
Ethyl Benzene	0.13	0.82	0.57	3.6
m,p-Xylene	0.13	3.3	0.57	14
o-Xylene	0.13	0.85	0.57	3.7
4-Ethyltoluene	0.13	0.27 CN	0.65	1.3 CN
1,2,4-Trimethylbenzene	0.13	0.26	0.65	1.2
1,3-Dichlorobenzene	0.13	0.43	0.79	2.6

Client Sample ID: SG-6

Lab ID#: 2404202A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.33	0.75	1.9
Acetone	2.7	3.0	6.3	7.2
Chloroform	0.13	0.24	0.65	1.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-6

Lab ID#: 2404202A-10A

4-Methyl-2-pentanone	0.13	0.24	0.54	0.99
Tetrachloroethene	0.13	9.7	0.90	66
Ethyl Benzene	0.13	0.27	0.58	1.2
m,p-Xylene	0.13	0.80	0.58	3.5
o-Xylene	0.13	0.38	0.58	1.6
1,2,4-Trimethylbenzene	0.13	0.26	0.65	1.3

Client Sample ID: SG-4

Lab ID#: 2404202A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.33	5.5	1.8	31
4-Methyl-2-pentanone	0.33	0.44	1.3	1.8
Tetrachloroethene	0.33	91	2.2	620
Ethyl Benzene	0.33	0.49	1.4	2.1
m,p-Xylene	0.33	1.8	1.4	7.7
o-Xylene	0.33	0.47	1.4	2.0
1,3-Dichlorobenzene	0.33	0.47	2.0	2.8

Client Sample ID: SG-4D

Lab ID#: 2404202A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.33	13	1.8	71
4-Methyl-2-pentanone	0.33	0.31 J	1.3	1.3 J
Tetrachloroethene	0.33	120	2.2	820
m,p-Xylene	0.33	1.1	1.4	4.6
o-Xylene	0.33	0.32 J	1.4	1.4 J
1,3-Dichlorobenzene	0.33	0.34	2.0	2.0

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Client Sample ID: SG-7

Lab ID#: 2404202A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041808**	**Date of Collection:**	**4/2/24 5:32:00 PM**
Dil. Factor:	**1.37**	**Date of Analysis:**	**4/18/24 01:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.68	Not Detected	3.4	Not Detected
Freon 114	0.14	Not Detected	0.96	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.8	Not Detected	27	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	24	0.77	130
Ethanol	2.7	Not Detected	5.2	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	2.7	3.1	6.5	7.4
2-Propanol	2.7	Not Detected	6.7	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.68	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	8.1	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.67	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Cyclohexane	0.68	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.86	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.44	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.14	Not Detected	0.74	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
1,4-Dioxane	0.68	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.92	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	0.24	0.56	1.0
Toluene	1.4	Not Detected	5.2	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Tetrachloroethene	0.14	1.2	0.93	8.4
2-Hexanone	0.68	Not Detected	2.8	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-7

Lab ID#: 2404202A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041808**	**Date of Collection:**	**4/2/24 5:32:00 PM**
Dil. Factor:	**1.37**	**Date of Analysis:**	**4/18/24 01:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Ethyl Benzene	0.14	0.20	0.59	0.86
m,p-Xylene	0.14	0.81	0.59	3.5
o-Xylene	0.14	0.20	0.59	0.85
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.67	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.94	Not Detected
Propylbenzene	0.14	Not Detected	0.67	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.67	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.67	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.67	Not Detected
1,3-Dichlorobenzene	0.14	0.18	0.82	1.1
1,4-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.71	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.1	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.3	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	120	70-130

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Client Sample ID: SG-19

Lab ID#: 2404202A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041809**	**Date of Collection:**	**4/3/24 7:59:00 AM**
Dil. Factor:	**1.28**	**Date of Analysis:**	**4/18/24 01:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.64	Not Detected	3.2	Not Detected
Freon 114	0.13	Not Detected	0.89	Not Detected
Chloromethane	0.64	Not Detected	1.3	Not Detected
Vinyl Chloride	0.13	Not Detected	0.33	Not Detected
1,3-Butadiene	0.13	Not Detected	0.28	Not Detected
Bromomethane	6.4	Not Detected	25	Not Detected
Chloroethane	0.64	Not Detected	1.7	Not Detected
Freon 11	0.13	0.19	0.72	1.1
Ethanol	2.6	Not Detected	4.8	Not Detected
Freon 113	0.13	Not Detected	0.98	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Acetone	2.6	2.9	6.1	6.8
2-Propanol	2.6	Not Detected	6.3	Not Detected
Carbon Disulfide	6.4	Not Detected	20	Not Detected
3-Chloropropene	0.64	Not Detected	2.0	Not Detected
Methylene Chloride	0.64	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.46	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Hexane	0.64	Not Detected	2.2	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.52	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	Not Detected	7.5	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Tetrahydrofuran	0.64	Not Detected	1.9	Not Detected
Chloroform	0.13	Not Detected	0.62	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.70	Not Detected
Cyclohexane	0.64	Not Detected	2.2	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.80	Not Detected
2,2,4-Trimethylpentane	0.64	Not Detected	3.0	Not Detected
Benzene	0.13	Not Detected	0.41	Not Detected
1,2-Dichloroethane	0.13	Not Detected	0.52	Not Detected
Heptane	0.64	Not Detected	2.6	Not Detected
Trichloroethene	0.13	0.45	0.69	2.4
1,2-Dichloropropane	0.13	Not Detected	0.59	Not Detected
1,4-Dioxane	0.64	Not Detected	2.3	Not Detected
Bromodichloromethane	0.13	Not Detected	0.86	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
4-Methyl-2-pentanone	0.13	0.44	0.52	1.8
Toluene	1.3	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.70	Not Detected
Tetrachloroethene	0.13	7.1	0.87	48
2-Hexanone	0.64	Not Detected	2.6	Not Detected

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Client Sample ID: SG-19

Lab ID#: 2404202A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041809**	**Date of Collection:**	**4/3/24 7:59:00 AM**
Dil. Factor:	**1.28**	**Date of Analysis:**	**4/18/24 01:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	0.98	Not Detected
Chlorobenzene	0.13	Not Detected	0.59	Not Detected
Ethyl Benzene	0.13	0.45	0.56	2.0
m,p-Xylene	0.13	1.6	0.56	7.0
o-Xylene	0.13	0.35	0.56	1.5
Styrene	0.13	Not Detected	0.54	Not Detected
Bromoform	0.13	Not Detected	1.3	Not Detected
Cumene	0.13	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.88	Not Detected
Propylbenzene	0.13	Not Detected	0.63	Not Detected
4-Ethyltoluene	0.13	Not Detected	0.63	Not Detected
1,3,5-Trimethylbenzene	0.13	Not Detected	0.63	Not Detected
1,2,4-Trimethylbenzene	0.13	0.22	0.63	1.0
1,3-Dichlorobenzene	0.13	0.26	0.77	1.6
1,4-Dichlorobenzene	0.13	Not Detected	0.77	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.66	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.77	Not Detected
1,2,4-Trichlorobenzene	0.64	Not Detected	4.7	Not Detected
Hexachlorobutadiene	0.64	Not Detected	6.8	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	115	70-130

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Client Sample ID: SG-19D

Lab ID#: 2404202A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041810**	**Date of Collection:**	**4/3/24 8:22:00 AM**
Dil. Factor:	**1.38**	**Date of Analysis:**	**4/18/24 02:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.69	Not Detected	3.4	Not Detected
Freon 114	0.14	Not Detected	0.96	Not Detected
Chloromethane	0.69	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.9	Not Detected	27	Not Detected
Chloroethane	0.69	Not Detected	1.8	Not Detected
Freon 11	0.14	0.14	0.78	0.81
Ethanol	2.8	Not Detected	5.2	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	2.8	4.0	6.6	9.4
2-Propanol	2.8	Not Detected	6.8	Not Detected
Carbon Disulfide	6.9	Not Detected	21	Not Detected
3-Chloropropene	0.69	Not Detected	2.2	Not Detected
Methylene Chloride	0.69	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Hexane	0.69	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	Not Detected	8.1	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Tetrahydrofuran	0.69	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.67	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Cyclohexane	0.69	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.87	Not Detected
2,2,4-Trimethylpentane	0.69	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.44	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.56	Not Detected
Heptane	0.69	Not Detected	2.8	Not Detected
Trichloroethene	0.14	Not Detected	0.74	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
1,4-Dioxane	0.69	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.92	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	0.62	0.56	2.6
Toluene	1.4	Not Detected	5.2	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.75	Not Detected
Tetrachloroethene	0.14	29	0.94	200
2-Hexanone	0.69	Not Detected	2.8	Not Detected

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Client Sample ID: SG-19D

Lab ID#: 2404202A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041810**	**Date of Collection:**	**4/3/24 8:22:00 AM**
Dil. Factor:	**1.38**	**Date of Analysis:**	**4/18/24 02:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	0.69	0.60	3.0
m,p-Xylene	0.14	2.9	0.60	13
o-Xylene	0.14	0.68	0.60	3.0
Styrene	0.14	Not Detected	0.59	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.68	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.95	Not Detected
Propylbenzene	0.14	Not Detected	0.68	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.68	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.68	Not Detected
1,2,4-Trimethylbenzene	0.14	0.18	0.68	0.90
1,3-Dichlorobenzene	0.14	0.32	0.83	1.9
1,4-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.71	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
1,2,4-Trichlorobenzene	0.69	Not Detected	5.1	Not Detected
Hexachlorobutadiene	0.69	Not Detected	7.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: SG-16

Lab ID#: 2404202A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041811**	**Date of Collection:**	**4/3/24 9:16:00 AM**
Dil. Factor:	**1.29**	**Date of Analysis:**	**4/18/24 03:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.64	Not Detected	3.2	Not Detected
Freon 114	0.13	Not Detected	0.90	Not Detected
Chloromethane	0.64	Not Detected	1.3	Not Detected
Vinyl Chloride	0.13	Not Detected	0.33	Not Detected
1,3-Butadiene	0.13	Not Detected	0.28	Not Detected
Bromomethane	6.4	Not Detected	25	Not Detected
Chloroethane	0.64	Not Detected	1.7	Not Detected
Freon 11	0.13	0.21	0.72	1.2
Ethanol	2.6	Not Detected	4.9	Not Detected
Freon 113	0.13	Not Detected	0.99	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Acetone	2.6	Not Detected	6.1	Not Detected
2-Propanol	2.6	Not Detected	6.3	Not Detected
Carbon Disulfide	6.4	Not Detected	20	Not Detected
3-Chloropropene	0.64	Not Detected	2.0	Not Detected
Methylene Chloride	0.64	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.46	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Hexane	0.64	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.52	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	Not Detected	7.6	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Tetrahydrofuran	0.64	Not Detected	1.9	Not Detected
Chloroform	0.13	Not Detected	0.63	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.70	Not Detected
Cyclohexane	0.64	Not Detected	2.2	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.81	Not Detected
2,2,4-Trimethylpentane	0.64	Not Detected	3.0	Not Detected
Benzene	0.13	Not Detected	0.41	Not Detected
1,2-Dichloroethane	0.13	Not Detected	0.52	Not Detected
Heptane	0.64	Not Detected	2.6	Not Detected
Trichloroethene	0.13	Not Detected	0.69	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.60	Not Detected
1,4-Dioxane	0.64	Not Detected	2.3	Not Detected
Bromodichloromethane	0.13	Not Detected	0.86	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
4-Methyl-2-pentanone	0.13	0.30	0.53	1.2
Toluene	1.3	Not Detected	4.9	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.70	Not Detected
Tetrachloroethene	0.13	1.6	0.88	11
2-Hexanone	0.64	Not Detected	2.6	Not Detected

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Client Sample ID: SG-16

Lab ID#: 2404202A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041811**	**Date of Collection:**	**4/3/24 9:16:00 AM**
Dil. Factor:	**1.29**	**Date of Analysis:**	**4/18/24 03:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	0.99	Not Detected
Chlorobenzene	0.13	Not Detected	0.59	Not Detected
Ethyl Benzene	0.13	0.41	0.56	1.8
m,p-Xylene	0.13	1.7	0.56	7.3
o-Xylene	0.13	0.42	0.56	1.8
Styrene	0.13	Not Detected	0.55	Not Detected
Bromoform	0.13	Not Detected	1.3	Not Detected
Cumene	0.13	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.88	Not Detected
Propylbenzene	0.13	Not Detected	0.63	Not Detected
4-Ethyltoluene	0.13	Not Detected	0.63	Not Detected
1,3,5-Trimethylbenzene	0.13	Not Detected	0.63	Not Detected
1,2,4-Trimethylbenzene	0.13	Not Detected	0.63	Not Detected
1,3-Dichlorobenzene	0.13	0.37	0.78	2.2
1,4-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.67	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
1,2,4-Trichlorobenzene	0.64	Not Detected	4.8	Not Detected
Hexachlorobutadiene	0.64	Not Detected	6.9	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: SG-22

Lab ID#: 2404202A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041812**	**Date of Collection:**	**4/3/24 10:44:00 AM**
Dil. Factor:	**1.32**	**Date of Analysis:**	**4/18/24 03:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.13	Not Detected	0.92	Not Detected
Chloromethane	0.66	Not Detected	1.4	Not Detected
Vinyl Chloride	0.13	Not Detected	0.34	Not Detected
1,3-Butadiene	0.13	Not Detected	0.29	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	0.66	Not Detected	1.7	Not Detected
Freon 11	0.13	0.18	0.74	1.0
Ethanol	2.6	Not Detected	5.0	Not Detected
Freon 113	0.13	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Acetone	2.6	Not Detected	6.3	Not Detected
2-Propanol	2.6	Not Detected	6.5	Not Detected
Carbon Disulfide	6.6	Not Detected	20	Not Detected
3-Chloropropene	0.66	Not Detected	2.1	Not Detected
Methylene Chloride	0.66	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Hexane	0.66	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.53	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	Not Detected	7.8	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Tetrahydrofuran	0.66	Not Detected	1.9	Not Detected
Chloroform	0.13	Not Detected	0.64	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.83	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Benzene	0.13	Not Detected	0.42	Not Detected
1,2-Dichloroethane	0.13	Not Detected	0.53	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.13	0.21	0.71	1.1
1,2-Dichloropropane	0.13	Not Detected	0.61	Not Detected
1,4-Dioxane	0.66	Not Detected	2.4	Not Detected
Bromodichloromethane	0.13	Not Detected	0.88	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
4-Methyl-2-pentanone	0.13	0.21	0.54	0.84
Toluene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Tetrachloroethene	0.13	23	0.90	160
2-Hexanone	0.66	Not Detected	2.7	Not Detected

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Client Sample ID: SG-22

Lab ID#: 2404202A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041812**	**Date of Collection:**	**4/3/24 10:44:00 AM**
Dil. Factor:	**1.32**	**Date of Analysis:**	**4/18/24 03:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	1.0	Not Detected
Chlorobenzene	0.13	Not Detected	0.61	Not Detected
Ethyl Benzene	0.13	0.17	0.57	0.72
m,p-Xylene	0.13	0.56	0.57	2.4
o-Xylene	0.13	0.18	0.57	0.79
Styrene	0.13	Not Detected	0.56	Not Detected
Bromoform	0.13	Not Detected	1.4	Not Detected
Cumene	0.13	Not Detected	0.65	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.91	Not Detected
Propylbenzene	0.13	Not Detected	0.65	Not Detected
4-Ethyltoluene	0.13	Not Detected	0.65	Not Detected
1,3,5-Trimethylbenzene	0.13	Not Detected	0.65	Not Detected
1,2,4-Trimethylbenzene	0.13	Not Detected	0.65	Not Detected
1,3-Dichlorobenzene	0.13	0.14	0.79	0.87
1,4-Dichlorobenzene	0.13	Not Detected	0.79	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.68	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.79	Not Detected
1,2,4-Trichlorobenzene	0.66	Not Detected	4.9	Not Detected
Hexachlorobutadiene	0.66	Not Detected	7.0	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	110	70-130

eurofins | Air Toxics

Client Sample ID: SG-12D

Lab ID#: 2404202A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041813**	**Date of Collection: 4/3/24 12:16:00 PM**	
Dil. Factor:	**1.35**	**Date of Analysis: 4/18/24 04:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.68	Not Detected	3.3	Not Detected
Freon 114	0.14	Not Detected	0.94	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	22	0.34	57
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.8	Not Detected	26	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	Not Detected	0.76	Not Detected
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	2.7	2.8	6.4	6.7
2-Propanol	2.7	Not Detected	6.6	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.68	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	0.21	0.54	0.82
Hexane	0.68	1.5	2.4	5.4
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	8.0	Not Detected
cis-1,2-Dichloroethene	0.14	7.3	0.54	29
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.85	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.14	1.5	0.43	4.9
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
Heptane	0.68	1.1	2.8	4.6
Trichloroethene	0.14	Not Detected	0.72	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.62	Not Detected
1,4-Dioxane	0.68	Not Detected	2.4	Not Detected
Bromodichloromethane	0.14	Not Detected	0.90	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.55	Not Detected
Toluene	1.4	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	0.14	0.92	0.93
2-Hexanone	0.68	Not Detected	2.8	Not Detected

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Client Sample ID: SG-12D

Lab ID#: 2404202A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041813**	**Date of Collection:**	**4/3/24 12:16:00 PM**
Dil. Factor:	**1.35**	**Date of Analysis:**	**4/18/24 04:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.62	Not Detected
Ethyl Benzene	0.14	0.26	0.59	1.1
m,p-Xylene	0.14	0.79	0.59	3.4
o-Xylene	0.14	0.25	0.59	1.1
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.66	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
Propylbenzene	0.14	Not Detected	0.66	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.66	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.66	Not Detected
1,2,4-Trimethylbenzene	0.14	0.32	0.66	1.6
1,3-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: SG-12

Lab ID#: 2404202A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041814**	**Date of Collection:**	**4/3/24 12:27:00 PM**
Dil. Factor:	**1.33**	**Date of Analysis:**	**4/18/24 05:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.13	Not Detected	0.93	Not Detected
Chloromethane	0.66	Not Detected	1.4	Not Detected
Vinyl Chloride	0.13	Not Detected	0.34	Not Detected
1,3-Butadiene	0.13	Not Detected	0.29	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	0.66	Not Detected	1.8	Not Detected
Freon 11	0.13	0.18	0.75	0.99
Ethanol	2.7	Not Detected	5.0	Not Detected
Freon 113	0.13	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Acetone	2.7	2.8	6.3	6.7
2-Propanol	2.7	Not Detected	6.5	Not Detected
Carbon Disulfide	6.6	Not Detected	21	Not Detected
3-Chloropropene	0.66	Not Detected	2.1	Not Detected
Methylene Chloride	0.66	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Hexane	0.66	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	7.8	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Tetrahydrofuran	0.66	Not Detected	2.0	Not Detected
Chloroform	0.13	Not Detected	0.65	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.84	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Benzene	0.13	0.16	0.42	0.50
1,2-Dichloroethane	0.13	Not Detected	0.54	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.13	Not Detected	0.71	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.61	Not Detected
1,4-Dioxane	0.66	Not Detected	2.4	Not Detected
Bromodichloromethane	0.13	Not Detected	0.89	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
4-Methyl-2-pentanone	0.13	0.43	0.54	1.8
Toluene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Tetrachloroethene	0.13	0.13	0.90	0.90
2-Hexanone	0.66	Not Detected	2.7	Not Detected

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Client Sample ID: SG-12

Lab ID#: 2404202A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041814**	**Date of Collection: 4/3/24 12:27:00 PM**	
Dil. Factor:	**1.33**	**Date of Analysis: 4/18/24 05:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	1.0	Not Detected
Chlorobenzene	0.13	Not Detected	0.61	Not Detected
Ethyl Benzene	0.13	0.39	0.58	1.7
m,p-Xylene	0.13	1.5	0.58	6.5
o-Xylene	0.13	0.45	0.58	2.0
Styrene	0.13	Not Detected	0.57	Not Detected
Bromoform	0.13	Not Detected	1.4	Not Detected
Cumene	0.13	Not Detected	0.65	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.91	Not Detected
Propylbenzene	0.13	Not Detected	0.65	Not Detected
4-Ethyltoluene	0.13	0.23 CN	0.65	1.1 CN
1,3,5-Trimethylbenzene	0.13	Not Detected	0.65	Not Detected
1,2,4-Trimethylbenzene	0.13	0.19	0.65	0.94
1,3-Dichlorobenzene	0.13	0.28	0.80	1.7
1,4-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.69	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,2,4-Trichlorobenzene	0.66	Not Detected	4.9	Not Detected
Hexachlorobutadiene	0.66	Not Detected	7.1	Not Detected

CN =See Case Narrative explanation

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	122	70-130

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Client Sample ID: SG-23

Lab ID#: 2404202A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041815**	**Date of Collection:**	**4/3/24 1:29:00 PM**
Dil. Factor:	**1.36**	**Date of Analysis:**	**4/18/24 06:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.68	Not Detected	3.4	Not Detected
Freon 114	0.14	Not Detected	0.95	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	6.8	Not Detected	26	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	0.21	0.76	1.2
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	2.7	Not Detected	6.5	Not Detected
2-Propanol	2.7	Not Detected	6.7	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.68	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	8.0	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.86	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.14	Not Detected	0.43	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.14	0.32	0.73	1.7
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
1,4-Dioxane	0.68	Not Detected	2.4	Not Detected
Bromodichloromethane	0.14	Not Detected	0.91	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	0.47	0.56	1.9
Toluene	1.4	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	11	0.92	76
2-Hexanone	0.68	Not Detected	2.8	Not Detected

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Client Sample ID: SG-23

Lab ID#: 2404202A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041815**	**Date of Collection:**	**4/3/24 1:29:00 PM**
Dil. Factor:	**1.36**	**Date of Analysis:**	**4/18/24 06:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Ethyl Benzene	0.14	0.31	0.59	1.3
m,p-Xylene	0.14	1.2	0.59	5.3
o-Xylene	0.14	0.36	0.59	1.6
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.67	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
Propylbenzene	0.14	Not Detected	0.67	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.67	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.67	Not Detected
1,2,4-Trimethylbenzene	0.14	0.18	0.67	0.88
1,3-Dichlorobenzene	0.14	0.40	0.82	2.4
1,4-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	121	70-130

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Client Sample ID: SG-6D

Lab ID#: 2404202A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041816**	**Date of Collection: 4/3/24 3:31:00 PM**	
Dil. Factor:	**1.32**	**Date of Analysis: 4/18/24 06:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.13	Not Detected	0.92	Not Detected
Chloromethane	0.66	Not Detected	1.4	Not Detected
Vinyl Chloride	0.13	Not Detected	0.34	Not Detected
1,3-Butadiene	0.13	Not Detected	0.29	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	0.66	Not Detected	1.7	Not Detected
Freon 11	0.13	0.30	0.74	1.7
Ethanol	2.6	3.4	5.0	6.4
Freon 113	0.13	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Acetone	2.6	41	6.3	97
2-Propanol	2.6	Not Detected	6.5	Not Detected
Carbon Disulfide	6.6	Not Detected	20	Not Detected
3-Chloropropene	0.66	Not Detected	2.1	Not Detected
Methylene Chloride	0.66	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Hexane	0.66	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.53	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	Not Detected	7.8	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Tetrahydrofuran	0.66	Not Detected	1.9	Not Detected
Chloroform	0.13	Not Detected	0.64	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.83	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Benzene	0.13	0.38	0.42	1.2
1,2-Dichloroethane	0.13	Not Detected	0.53	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.13	Not Detected	0.71	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.61	Not Detected
1,4-Dioxane	0.66	Not Detected	2.4	Not Detected
Bromodichloromethane	0.13	Not Detected	0.88	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
4-Methyl-2-pentanone	0.13	1.2	0.54	5.0
Toluene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Tetrachloroethene	0.13	Not Detected	0.90	Not Detected
2-Hexanone	0.66	Not Detected	2.7	Not Detected

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Client Sample ID: SG-6D

Lab ID#: 2404202A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041816**	**Date of Collection: 4/3/24 3:31:00 PM**	
Dil. Factor:	**1.32**	**Date of Analysis: 4/18/24 06:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	1.0	Not Detected
Chlorobenzene	0.13	Not Detected	0.61	Not Detected
Ethyl Benzene	0.13	0.82	0.57	3.6
m,p-Xylene	0.13	3.3	0.57	14
o-Xylene	0.13	0.85	0.57	3.7
Styrene	0.13	Not Detected	0.56	Not Detected
Bromoform	0.13	Not Detected	1.4	Not Detected
Cumene	0.13	Not Detected	0.65	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.91	Not Detected
Propylbenzene	0.13	Not Detected	0.65	Not Detected
4-Ethyltoluene	0.13	0.27 CN	0.65	1.3 CN
1,3,5-Trimethylbenzene	0.13	Not Detected	0.65	Not Detected
1,2,4-Trimethylbenzene	0.13	0.26	0.65	1.2
1,3-Dichlorobenzene	0.13	0.43	0.79	2.6
1,4-Dichlorobenzene	0.13	Not Detected	0.79	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.68	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.79	Not Detected
1,2,4-Trichlorobenzene	0.66	Not Detected	4.9	Not Detected
Hexachlorobutadiene	0.66	Not Detected	7.0	Not Detected

CN =See Case Narrative explanation

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	118	70-130

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Client Sample ID: SG-6

Lab ID#: 2404202A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041817**	**Date of Collection: 4/3/24 3:40:00 PM**	
Dil. Factor:	**1.33**	**Date of Analysis: 4/18/24 07:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.13	Not Detected	0.93	Not Detected
Chloromethane	0.66	Not Detected	1.4	Not Detected
Vinyl Chloride	0.13	Not Detected	0.34	Not Detected
1,3-Butadiene	0.13	Not Detected	0.29	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	0.66	Not Detected	1.8	Not Detected
Freon 11	0.13	0.33	0.75	1.9
Ethanol	2.7	Not Detected	5.0	Not Detected
Freon 113	0.13	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Acetone	2.7	3.0	6.3	7.2
2-Propanol	2.7	Not Detected	6.5	Not Detected
Carbon Disulfide	6.6	Not Detected	21	Not Detected
3-Chloropropene	0.66	Not Detected	2.1	Not Detected
Methylene Chloride	0.66	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Hexane	0.66	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	7.8	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Tetrahydrofuran	0.66	Not Detected	2.0	Not Detected
Chloroform	0.13	0.24	0.65	1.2
1,1,1-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.84	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Benzene	0.13	Not Detected	0.42	Not Detected
1,2-Dichloroethane	0.13	Not Detected	0.54	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.13	Not Detected	0.71	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.61	Not Detected
1,4-Dioxane	0.66	Not Detected	2.4	Not Detected
Bromodichloromethane	0.13	Not Detected	0.89	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
4-Methyl-2-pentanone	0.13	0.24	0.54	0.99
Toluene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Tetrachloroethene	0.13	9.7	0.90	66
2-Hexanone	0.66	Not Detected	2.7	Not Detected

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Client Sample ID: SG-6

Lab ID#: 2404202A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041817**	**Date of Collection:**	**4/3/24 3:40:00 PM**
Dil. Factor:	**1.33**	**Date of Analysis:**	**4/18/24 07:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	1.0	Not Detected
Chlorobenzene	0.13	Not Detected	0.61	Not Detected
Ethyl Benzene	0.13	0.27	0.58	1.2
m,p-Xylene	0.13	0.80	0.58	3.5
o-Xylene	0.13	0.38	0.58	1.6
Styrene	0.13	Not Detected	0.57	Not Detected
Bromoform	0.13	Not Detected	1.4	Not Detected
Cumene	0.13	Not Detected	0.65	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.91	Not Detected
Propylbenzene	0.13	Not Detected	0.65	Not Detected
4-Ethyltoluene	0.13	Not Detected	0.65	Not Detected
1,3,5-Trimethylbenzene	0.13	Not Detected	0.65	Not Detected
1,2,4-Trimethylbenzene	0.13	0.26	0.65	1.3
1,3-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,4-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.69	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,2,4-Trichlorobenzene	0.66	Not Detected	4.9	Not Detected
Hexachlorobutadiene	0.66	Not Detected	7.1	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	116	70-130

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Client Sample ID: SG-4

Lab ID#: 2404202A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041820**	**Date of Collection:**	**4/3/24 4:33:00 PM**
Dil. Factor:	**3.26**	**Date of Analysis:**	**4/18/24 09:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	8.1	Not Detected
Freon 114	0.33	Not Detected	2.3	Not Detected
Chloromethane	1.6	Not Detected	3.4	Not Detected
Vinyl Chloride	0.33	Not Detected	0.83	Not Detected
1,3-Butadiene	0.33	Not Detected	0.72	Not Detected
Bromomethane	16	Not Detected	63	Not Detected
Chloroethane	1.6	Not Detected	4.3	Not Detected
Freon 11	0.33	5.5	1.8	31
Ethanol	6.5	Not Detected	12	Not Detected
Freon 113	0.33	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.33	Not Detected	1.3	Not Detected
Acetone	6.5	Not Detected	15	Not Detected
2-Propanol	6.5	Not Detected	16	Not Detected
Carbon Disulfide	16	Not Detected	51	Not Detected
3-Chloropropene	1.6	Not Detected	5.1	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	0.33	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.33	Not Detected	1.3	Not Detected
Hexane	1.6	Not Detected	5.7	Not Detected
1,1-Dichloroethane	0.33	Not Detected	1.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.5	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	0.33	Not Detected	1.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.8	Not Detected
Chloroform	0.33	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.33	Not Detected	1.8	Not Detected
Cyclohexane	1.6	Not Detected	5.6	Not Detected
Carbon Tetrachloride	0.33	Not Detected	2.0	Not Detected
2,2,4-Trimethylpentane	1.6	Not Detected	7.6	Not Detected
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.33	Not Detected	1.3	Not Detected
Heptane	1.6	Not Detected	6.7	Not Detected
Trichloroethene	0.33	Not Detected	1.8	Not Detected
1,2-Dichloropropane	0.33	Not Detected	1.5	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.33	Not Detected	2.2	Not Detected
cis-1,3-Dichloropropene	0.33	Not Detected	1.5	Not Detected
4-Methyl-2-pentanone	0.33	0.44	1.3	1.8
Toluene	3.3	Not Detected	12	Not Detected
trans-1,3-Dichloropropene	0.33	Not Detected	1.5	Not Detected
1,1,2-Trichloroethane	0.33	Not Detected	1.8	Not Detected
Tetrachloroethene	0.33	91	2.2	620
2-Hexanone	1.6	Not Detected	6.7	Not Detected

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Client Sample ID: SG-4

Lab ID#: 2404202A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041820**	**Date of Collection: 4/3/24 4:33:00 PM**	
Dil. Factor:	**3.26**	**Date of Analysis: 4/18/24 09:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.33	Not Detected	2.8	Not Detected
1,2-Dibromoethane (EDB)	0.33	Not Detected	2.5	Not Detected
Chlorobenzene	0.33	Not Detected	1.5	Not Detected
Ethyl Benzene	0.33	0.49	1.4	2.1
m,p-Xylene	0.33	1.8	1.4	7.7
o-Xylene	0.33	0.47	1.4	2.0
Styrene	0.33	Not Detected	1.4	Not Detected
Bromoform	0.33	Not Detected	3.4	Not Detected
Cumene	0.33	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.33	Not Detected	2.2	Not Detected
Propylbenzene	0.33	Not Detected	1.6	Not Detected
4-Ethyltoluene	0.33	Not Detected	1.6	Not Detected
1,3,5-Trimethylbenzene	0.33	Not Detected	1.6	Not Detected
1,2,4-Trimethylbenzene	0.33	Not Detected	1.6	Not Detected
1,3-Dichlorobenzene	0.33	0.47	2.0	2.8
1,4-Dichlorobenzene	0.33	Not Detected	2.0	Not Detected
alpha-Chlorotoluene	0.33	Not Detected	1.7	Not Detected
1,2-Dichlorobenzene	0.33	Not Detected	2.0	Not Detected
1,2,4-Trichlorobenzene	1.6	Not Detected	12	Not Detected
Hexachlorobutadiene	1.6	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: SG-4D

Lab ID#: 2404202A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041819**	**Date of Collection:**	**4/3/24 4:48:00 PM**
Dil. Factor:	**3.28**	**Date of Analysis:**	**4/18/24 08:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	8.1	Not Detected
Freon 114	0.33	Not Detected	2.3	Not Detected
Chloromethane	1.6	Not Detected	3.4	Not Detected
Vinyl Chloride	0.33	Not Detected	0.84	Not Detected
1,3-Butadiene	0.33	Not Detected	0.72	Not Detected
Bromomethane	16	Not Detected	64	Not Detected
Chloroethane	1.6	Not Detected	4.3	Not Detected
Freon 11	0.33	13	1.8	71
Ethanol	6.6	Not Detected	12	Not Detected
Freon 113	0.33	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.33	Not Detected	1.3	Not Detected
Acetone	6.6	Not Detected	16	Not Detected
2-Propanol	6.6	Not Detected	16	Not Detected
Carbon Disulfide	16	Not Detected	51	Not Detected
3-Chloropropene	1.6	Not Detected	5.1	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Methyl tert-butyl ether	0.33	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.33	Not Detected	1.3	Not Detected
Hexane	1.6	Not Detected	5.8	Not Detected
1,1-Dichloroethane	0.33	Not Detected	1.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.6	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	0.33	Not Detected	1.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.8	Not Detected
Chloroform	0.33	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.33	Not Detected	1.8	Not Detected
Cyclohexane	1.6	Not Detected	5.6	Not Detected
Carbon Tetrachloride	0.33	Not Detected	2.1	Not Detected
2,2,4-Trimethylpentane	1.6	Not Detected	7.7	Not Detected
Benzene	0.33	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.33	Not Detected	1.3	Not Detected
Heptane	1.6	Not Detected	6.7	Not Detected
Trichloroethene	0.33	Not Detected	1.8	Not Detected
1,2-Dichloropropane	0.33	Not Detected	1.5	Not Detected
1,4-Dioxane	1.6	Not Detected	5.9	Not Detected
Bromodichloromethane	0.33	Not Detected	2.2	Not Detected
cis-1,3-Dichloropropene	0.33	Not Detected	1.5	Not Detected
4-Methyl-2-pentanone	0.33	0.31 J	1.3	1.3 J
Toluene	3.3	Not Detected	12	Not Detected
trans-1,3-Dichloropropene	0.33	Not Detected	1.5	Not Detected
1,1,2-Trichloroethane	0.33	Not Detected	1.8	Not Detected
Tetrachloroethene	0.33	120	2.2	820
2-Hexanone	1.6	Not Detected	6.7	Not Detected

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Client Sample ID: SG-4D

Lab ID#: 2404202A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041819**	**Date of Collection: 4/3/24 4:48:00 PM**	
Dil. Factor:	**3.28**	**Date of Analysis: 4/18/24 08:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.33	Not Detected	2.8	Not Detected
1,2-Dibromoethane (EDB)	0.33	Not Detected	2.5	Not Detected
Chlorobenzene	0.33	Not Detected	1.5	Not Detected
Ethyl Benzene	0.33	Not Detected	1.4	Not Detected
m,p-Xylene	0.33	1.1	1.4	4.6
o-Xylene	0.33	0.32 J	1.4	1.4 J
Styrene	0.33	Not Detected	1.4	Not Detected
Bromoform	0.33	Not Detected	3.4	Not Detected
Cumene	0.33	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.33	Not Detected	2.2	Not Detected
Propylbenzene	0.33	Not Detected	1.6	Not Detected
4-Ethyltoluene	0.33	Not Detected	1.6	Not Detected
1,3,5-Trimethylbenzene	0.33	Not Detected	1.6	Not Detected
1,2,4-Trimethylbenzene	0.33	Not Detected	1.6	Not Detected
1,3-Dichlorobenzene	0.33	0.34	2.0	2.0
1,4-Dichlorobenzene	0.33	Not Detected	2.0	Not Detected
alpha-Chlorotoluene	0.33	Not Detected	1.7	Not Detected
1,2-Dichlorobenzene	0.33	Not Detected	2.0	Not Detected
1,2,4-Trichlorobenzene	1.6	Not Detected	12	Not Detected
Hexachlorobutadiene	1.6	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	120	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2404202A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041806c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 11:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2404202A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041806c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 11:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 2404202A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 08:19 AM**

Compound	%Recovery
Freon 12	96
Freon 114	97
Chloromethane	88
Vinyl Chloride	88
1,3-Butadiene	89
Bromomethane	86
Chloroethane	89
Freon 11	101
Ethanol	80
Freon 113	98
1,1-Dichloroethene	100
Acetone	86
2-Propanol	91
Carbon Disulfide	98
3-Chloropropene	90
Methylene Chloride	92
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	101
Hexane	103
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	101
Tetrahydrofuran	90
Chloroform	97
1,1,1-Trichloroethane	98
Cyclohexane	108
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	102
Benzene	99
1,2-Dichloroethane	96
Heptane	102
Trichloroethene	102
1,2-Dichloropropane	97
1,4-Dioxane	116
Bromodichloromethane	103
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	106
Toluene	102
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	103
Tetrachloroethene	105
2-Hexanone	112

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Client Sample ID: CCV

Lab ID#: 2404202A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 08:19 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	104
Chlorobenzene	103
Ethyl Benzene	114
m,p-Xylene	116
o-Xylene	114
Styrene	122
Bromoform	104
Cumene	115
1,1,2,2-Tetrachloroethane	91
Propylbenzene	118
4-Ethyltoluene	120
1,3,5-Trimethylbenzene	123
1,2,4-Trimethylbenzene	124
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: LCS

Lab ID#: 2404202A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 09:15 AM**	

Compound	%Recovery	Method Limits
Freon 12	91	70-130
Freon 114	90	70-130
Chloromethane	81	70-130
Vinyl Chloride	84	70-130
1,3-Butadiene	85	70-130
Bromomethane	88	70-130
Chloroethane	83	70-130
Freon 11	93	70-130
Ethanol	90	70-130
Freon 113	87	70-130
1,1-Dichloroethene	91	70-130
Acetone	83	70-130
2-Propanol	86	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	93	70-130
Methylene Chloride	84	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	96	70-130
1,1-Dichloroethane	87	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
cis-1,2-Dichloroethene	93	70-130
Tetrahydrofuran	90	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	91	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	75	70-130
2,2,4-Trimethylpentane	93	70-130
Benzene	92	70-130
1,2-Dichloroethane	92	70-130
Heptane	97	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	91	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	104	70-130
2-Hexanone	97	70-130

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Client Sample ID: LCS

Lab ID#: 2404202A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 09:15 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	111	70-130
m,p-Xylene	113	70-130
o-Xylene	113	70-130
Styrene	116	70-130
Bromoform	98	70-130
Cumene	113	70-130
1,1,2,2-Tetrachloroethane	86	70-130
Propylbenzene	115	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	119	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	98	70-130
alpha-Chlorotoluene	92	70-130
1,2-Dichlorobenzene	92	70-130
1,2,4-Trichlorobenzene	88	70-130
Hexachlorobutadiene	95	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 09:54 AM**	

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	92	70-130
Chloromethane	86	70-130
Vinyl Chloride	88	70-130
1,3-Butadiene	87	70-130
Bromomethane	89	70-130
Chloroethane	84	70-130
Freon 11	96	70-130
Ethanol	96	70-130
Freon 113	90	70-130
1,1-Dichloroethene	95	70-130
Acetone	82	70-130
2-Propanol	94	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	93	70-130
Methylene Chloride	86	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	101	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	97	70-130
Tetrahydrofuran	93	70-130
Chloroform	91	70-130
1,1,1-Trichloroethane	95	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	80	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	88	70-130
1,2-Dichloroethane	87	70-130
Heptane	94	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	86	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	94	70-130
cis-1,3-Dichloropropene	91	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	100	70-130
2-Hexanone	95	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 09:54 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	96	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	102	70-130
o-Xylene	102	70-130
Styrene	103	70-130
Bromoform	94	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	85	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	109	70-130
1,3,5-Trimethylbenzene	115	70-130
1,2,4-Trimethylbenzene	114	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	91	70-130
alpha-Chlorotoluene	79	70-130
1,2-Dichlorobenzene	83	70-130
1,2,4-Trichlorobenzene	78	70-130
Hexachlorobutadiene	87	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: ~~2404206~~ 2404202

2N 4.9.24

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: PES Environmental PID: _____
Project Name: Springfield
Project Manager: Guy Tosi P.O.# 1176
Sampler: Jay Corriter
Site Name: Springfield

Special Instructions/Notes:

Turnaround Time (Rush surcharges may apply)
Select TAT from drop down box

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15LL			
01A	SG-8	1564	27470	040324	1646	040324	1706	-30	-5			X			
02A	SG-5	GL1620	26594	040424	0701	040424	0732	-30	-5			X			
03A	SG-14	GL2260	27477		0757		0832	-30	-5			X			
04A	SG-2D	GL0990	27504		0912		0946	-30	-5			X			
05A	SG-2	GL0706	26822		0927		0959	-30	-5			X			
06A	SG-1	2262	27529		1147		1214	-30	-5			X			
07A	SG-99	D190	26917		1147		1215	-30	-5			X			
08A	SG 1D	GL0139	26572	—	1236	—	1332	-30	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	04/05/24	1300 FX	EATL	4/8/24	0911
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FEDEX | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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4/19/2024
Mr. Guy Tanz
PNG Environmental
6665 SW Hampton St
Suite 101
Tigard OR 97223

Project Name: SPRINGFIELD
Project #:
Workorder #: 2404202B

Dear Mr. Guy Tanz

The following report includes the data for the above referenced project for sample(s) received on 4/8/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Nazanin Khorrami at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Nazanin Khorrami

Nazanin Khorrami

Project Manager

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WORK ORDER #: 2404202B

Work Order Summary

CLIENT:	Mr. Guy Tanz PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223	**BILL TO:**	Mr. Guy Tanz PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223
PHONE:	503-620-2387	**P.O. #**	1176
FAX:	503-620-2977	**PROJECT #**	SPRINGFIELD
DATE RECEIVED:	04/08/2024	**CONTACT:**	Nazanin Khorrami
DATE COMPLETED:	04/19/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
13A	SG-8	Modified TO-15	3.7 "Hg	1.9 psi
14A	SG-5	Modified TO-15	5.9 "Hg	1.9 psi
15A	SG-14	Modified TO-15	3.3 "Hg	2 psi
16A	SG-2D	Modified TO-15	4.3 "Hg	1.9 psi
17A	SG-2	Modified TO-15	4.5 "Hg	1.9 psi
18A	SG-1	Modified TO-15	5.7 "Hg	1.8 psi
19A	SG-99	Modified TO-15	5.5 "Hg	1.9 psi
20A	SG-1D	Modified TO-15	6.7 "Hg	1.9 psi
21A	Lab Blank	Modified TO-15	NA	NA
21B	Lab Blank	Modified TO-15	NA	NA
21C	Lab Blank	Modified TO-15	NA	NA
22A	CCV	Modified TO-15	NA	NA
22B	CCV	Modified TO-15	NA	NA
22C	CCV	Modified TO-15	NA	NA
23A	LCS	Modified TO-15	NA	NA
23AA	LCSD	Modified TO-15	NA	NA
23B	LCS	Modified TO-15	NA	NA
23BB	LCSD	Modified TO-15	NA	NA
23C	LCS	Modified TO-15	NA	NA
23CC	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 04/19/24

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
Modified TO-15
PNG Environmental
Workorder# 2404202B

Eight 6 Liter Summa Canister (100% Certified) samples were received on April 08, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Samples SG-14, SG-2D, SG-2, SG-1, SG-99 and SG-1D were transferred from Low Level analysis to full scan TO-15 due to high levels of target compounds.

Dilution was performed on samples SG-14, SG-2D, SG-2, SG-1, SG-99 and SG-1D due to the presence of high level target species.

The presence of a closely eluting non-target peak in sample SG-8 is interfering with the quantitation mass ion for 4-Ethyltoluene. The reported 4-Ethyltoluene concentration is flagged with a "CN" flag to indicate a high bias due to matrix contribution.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-8

Lab ID#: 2404202B-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.22	0.72	1.2
Acetone	2.6	3.6	6.1	8.6
4-Methyl-2-pentanone	0.13	0.38	0.53	1.5
Tetrachloroethene	0.13	8.4	0.88	57
Ethyl Benzene	0.13	0.32	0.56	1.4
m,p-Xylene	0.13	1.3	0.56	5.7
o-Xylene	0.13	0.37	0.56	1.6
4-Ethyltoluene	0.13	0.14 CN	0.63	0.69 CN
1,2,4-Trimethylbenzene	0.13	0.14	0.63	0.70
1,3-Dichlorobenzene	0.13	0.45	0.78	2.7

Client Sample ID: SG-5

Lab ID#: 2404202B-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.30	0.79	1.7
Acetone	2.8	4.4	6.6	10
4-Methyl-2-pentanone	0.14	0.23	0.57	0.95
Tetrachloroethene	0.14	5.9	0.95	40
m,p-Xylene	0.14	0.40	0.61	1.7

Client Sample ID: SG-14

Lab ID#: 2404202B-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.8	4.0	10	22
Tetrachloroethene	1.8	410	12	2800

Client Sample ID: SG-2D

Lab ID#: 2404202B-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-2D

Lab ID#: 2404202B-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	4.4	1300	25	7400
Tetrachloroethene	4.4	600	30	4000

Client Sample ID: SG-2

Lab ID#: 2404202B-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	2.6	760	15	4200
Tetrachloroethene	2.6	470	18	3200

Client Sample ID: SG-1

Lab ID#: 2404202B-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	2.0	550	13	3800

Client Sample ID: SG-99

Lab ID#: 2404202B-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	2.0	540	13	3600

Client Sample ID: SG-1D

Lab ID#: 2404202B-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	7.2	1900	49	13000

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Client Sample ID: SG-8

Lab ID#: 2404202B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041617**	**Date of Collection:**	**4/3/24 5:26:00 PM**
Dil. Factor:	**1.29**	**Date of Analysis:**	**4/16/24 09:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.64	Not Detected	3.2	Not Detected
Freon 114	0.13	Not Detected	0.90	Not Detected
Chloromethane	0.64	Not Detected	1.3	Not Detected
Vinyl Chloride	0.13	Not Detected	0.33	Not Detected
1,3-Butadiene	0.13	Not Detected	0.28	Not Detected
Bromomethane	6.4	Not Detected	25	Not Detected
Chloroethane	0.64	Not Detected	1.7	Not Detected
Freon 11	0.13	0.22	0.72	1.2
Ethanol	2.6	Not Detected	4.9	Not Detected
Freon 113	0.13	Not Detected	0.99	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Acetone	2.6	3.6	6.1	8.6
2-Propanol	2.6	Not Detected	6.3	Not Detected
Carbon Disulfide	6.4	Not Detected	20	Not Detected
3-Chloropropene	0.64	Not Detected	2.0	Not Detected
Methylene Chloride	0.64	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.46	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Hexane	0.64	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.52	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	Not Detected	7.6	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Tetrahydrofuran	0.64	Not Detected	1.9	Not Detected
Chloroform	0.13	Not Detected	0.63	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.70	Not Detected
Cyclohexane	0.64	Not Detected	2.2	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.81	Not Detected
2,2,4-Trimethylpentane	0.64	Not Detected	3.0	Not Detected
Benzene	0.13	Not Detected	0.41	Not Detected
1,2-Dichloroethane	0.13	Not Detected	0.52	Not Detected
Heptane	0.64	Not Detected	2.6	Not Detected
Trichloroethene	0.13	Not Detected	0.69	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.60	Not Detected
1,4-Dioxane	0.64	Not Detected	2.3	Not Detected
Bromodichloromethane	0.13	Not Detected	0.86	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
4-Methyl-2-pentanone	0.13	0.38	0.53	1.5
Toluene	1.3	Not Detected	4.9	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.70	Not Detected
Tetrachloroethene	0.13	8.4	0.88	57
2-Hexanone	0.64	Not Detected	2.6	Not Detected

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Client Sample ID: SG-8

Lab ID#: 2404202B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041617**	**Date of Collection: 4/3/24 5:26:00 PM**	
Dil. Factor:	**1.29**	**Date of Analysis: 4/16/24 09:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	0.99	Not Detected
Chlorobenzene	0.13	Not Detected	0.59	Not Detected
Ethyl Benzene	0.13	0.32	0.56	1.4
m,p-Xylene	0.13	1.3	0.56	5.7
o-Xylene	0.13	0.37	0.56	1.6
Styrene	0.13	Not Detected	0.55	Not Detected
Bromoform	0.13	Not Detected	1.3	Not Detected
Cumene	0.13	Not Detected	0.63	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.88	Not Detected
Propylbenzene	0.13	Not Detected	0.63	Not Detected
4-Ethyltoluene	0.13	0.14 CN	0.63	0.69 CN
1,3,5-Trimethylbenzene	0.13	Not Detected	0.63	Not Detected
1,2,4-Trimethylbenzene	0.13	0.14	0.63	0.70
1,3-Dichlorobenzene	0.13	0.45	0.78	2.7
1,4-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.67	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
1,2,4-Trichlorobenzene	0.64	Not Detected	4.8	Not Detected
Hexachlorobutadiene	0.64	Not Detected	6.9	Not Detected

CN =See Case Narrative explanation

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: SG-5

Lab ID#: 2404202B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041618**	**Date of Collection:**	**4/4/24 7:32:00 AM**
Dil. Factor:	**1.40**	**Date of Analysis:**	**4/16/24 09:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.70	Not Detected	3.5	Not Detected
Freon 114	0.14	Not Detected	0.98	Not Detected
Chloromethane	0.70	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
1,3-Butadiene	0.14	Not Detected	0.31	Not Detected
Bromomethane	7.0	Not Detected	27	Not Detected
Chloroethane	0.70	Not Detected	1.8	Not Detected
Freon 11	0.14	0.30	0.79	1.7
Ethanol	2.8	Not Detected	5.3	Not Detected
Freon 113	0.14	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Acetone	2.8	4.4	6.6	10
2-Propanol	2.8	Not Detected	6.9	Not Detected
Carbon Disulfide	7.0	Not Detected	22	Not Detected
3-Chloropropene	0.70	Not Detected	2.2	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Hexane	0.70	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	Not Detected	8.2	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.1	Not Detected
Chloroform	0.14	Not Detected	0.68	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.88	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.3	Not Detected
Benzene	0.14	Not Detected	0.45	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.57	Not Detected
Heptane	0.70	Not Detected	2.9	Not Detected
Trichloroethene	0.14	Not Detected	0.75	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.65	Not Detected
1,4-Dioxane	0.70	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.94	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
4-Methyl-2-pentanone	0.14	0.23	0.57	0.95
Toluene	1.4	Not Detected	5.3	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Tetrachloroethene	0.14	5.9	0.95	40
2-Hexanone	0.70	Not Detected	2.9	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-5

Lab ID#: 2404202B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041618**	**Date of Collection:**	**4/4/24 7:32:00 AM**
Dil. Factor:	**1.40**	**Date of Analysis:**	**4/16/24 09:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	Not Detected	0.61	Not Detected
m,p-Xylene	0.14	0.40	0.61	1.7
o-Xylene	0.14	Not Detected	0.61	Not Detected
Styrene	0.14	Not Detected	0.60	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.69	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.96	Not Detected
Propylbenzene	0.14	Not Detected	0.69	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.69	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.69	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.69	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.72	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected
Hexachlorobutadiene	0.70	Not Detected	7.5	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: SG-14

Lab ID#: 2404202B-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041719**	**Date of Collection:**	**4/4/24 8:32:00 AM**
Dil. Factor:	**3.65**	**Date of Analysis:**	**4/17/24 11:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.8	Not Detected	9.0	Not Detected
Freon 114	1.8	Not Detected	13	Not Detected
Chloromethane	18	Not Detected	38	Not Detected
Vinyl Chloride	1.8	Not Detected	4.7	Not Detected
1,3-Butadiene	1.8	Not Detected	4.0	Not Detected
Bromomethane	18	Not Detected	71	Not Detected
Chloroethane	7.3	Not Detected	19	Not Detected
Freon 11	1.8	4.0	10	22
Ethanol	18	Not Detected	34	Not Detected
Freon 113	1.8	Not Detected	14	Not Detected
1,1-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Acetone	18	Not Detected	43	Not Detected
2-Propanol	7.3	Not Detected	18	Not Detected
Carbon Disulfide	7.3	Not Detected	23	Not Detected
3-Chloropropene	7.3	Not Detected	23	Not Detected
Methylene Chloride	18	Not Detected	63	Not Detected
Methyl tert-butyl ether	7.3	Not Detected	26	Not Detected
trans-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Hexane	1.8	Not Detected	6.4	Not Detected
1,1-Dichloroethane	1.8	Not Detected	7.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.3	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Tetrahydrofuran	1.8	Not Detected	5.4	Not Detected
Chloroform	1.8	Not Detected	8.9	Not Detected
1,1,1-Trichloroethane	1.8	Not Detected	10	Not Detected
Cyclohexane	1.8	Not Detected	6.3	Not Detected
Carbon Tetrachloride	1.8	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	1.8	Not Detected	8.5	Not Detected
Benzene	1.8	Not Detected	5.8	Not Detected
1,2-Dichloroethane	1.8	Not Detected	7.4	Not Detected
Heptane	1.8	Not Detected	7.5	Not Detected
Trichloroethene	1.8	Not Detected	9.8	Not Detected
1,2-Dichloropropane	1.8	Not Detected	8.4	Not Detected
1,4-Dioxane	7.3	Not Detected	26	Not Detected
Bromodichloromethane	1.8	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
4-Methyl-2-pentanone	1.8	Not Detected	7.5	Not Detected
Toluene	3.6	Not Detected	14	Not Detected
trans-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
1,1,2-Trichloroethane	1.8	Not Detected	10	Not Detected
Tetrachloroethene	1.8	410	12	2800
2-Hexanone	7.3	Not Detected	30	Not Detected

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Client Sample ID: SG-14

Lab ID#: 2404202B-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041719**	**Date of Collection:**	**4/4/24 8:32:00 AM**
Dil. Factor:	**3.65**	**Date of Analysis:**	**4/17/24 11:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.8	Not Detected	16	Not Detected
1,2-Dibromoethane (EDB)	1.8	Not Detected	14	Not Detected
Chlorobenzene	1.8	Not Detected	8.4	Not Detected
Ethyl Benzene	1.8	Not Detected	7.9	Not Detected
m,p-Xylene	3.6	Not Detected	16	Not Detected
o-Xylene	1.8	Not Detected	7.9	Not Detected
Styrene	1.8	Not Detected	7.8	Not Detected
Bromoform	1.8	Not Detected	19	Not Detected
Cumene	1.8	Not Detected	9.0	Not Detected
1,1,2,2-Tetrachloroethane	1.8	Not Detected	12	Not Detected
Propylbenzene	1.8	Not Detected	9.0	Not Detected
4-Ethyltoluene	1.8	Not Detected	9.0	Not Detected
1,3,5-Trimethylbenzene	1.8	Not Detected	9.0	Not Detected
1,2,4-Trimethylbenzene	1.8	Not Detected	9.0	Not Detected
1,3-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,4-Dichlorobenzene	1.8	Not Detected	11	Not Detected
alpha-Chlorotoluene	1.8	Not Detected	9.4	Not Detected
1,2-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,2,4-Trichlorobenzene	7.3	Not Detected	54	Not Detected
Hexachlorobutadiene	7.3	Not Detected	78	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SG-2D

Lab ID#: 2404202B-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041811**	**Date of Collection:**	**4/4/24 9:46:00 AM**
Dil. Factor:	**8.79**	**Date of Analysis:**	**4/18/24 05:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.4	Not Detected	22	Not Detected
Freon 114	4.4	Not Detected	31	Not Detected
Chloromethane	44	Not Detected	91	Not Detected
Vinyl Chloride	4.4	Not Detected	11	Not Detected
1,3-Butadiene	4.4	Not Detected	9.7	Not Detected
Bromomethane	44	Not Detected	170	Not Detected
Chloroethane	18	Not Detected	46	Not Detected
Freon 11	4.4	1300	25	7400
Ethanol	44	Not Detected	83	Not Detected
Freon 113	4.4	Not Detected	34	Not Detected
1,1-Dichloroethene	4.4	Not Detected	17	Not Detected
Acetone	44	Not Detected	100	Not Detected
2-Propanol	18	Not Detected	43	Not Detected
Carbon Disulfide	18	Not Detected	55	Not Detected
3-Chloropropene	18	Not Detected	55	Not Detected
Methylene Chloride	44	Not Detected	150	Not Detected
Methyl tert-butyl ether	18	Not Detected	63	Not Detected
trans-1,2-Dichloroethene	4.4	Not Detected	17	Not Detected
Hexane	4.4	Not Detected	15	Not Detected
1,1-Dichloroethane	4.4	Not Detected	18	Not Detected
2-Butanone (Methyl Ethyl Ketone)	18	Not Detected	52	Not Detected
cis-1,2-Dichloroethene	4.4	Not Detected	17	Not Detected
Tetrahydrofuran	4.4	Not Detected	13	Not Detected
Chloroform	4.4	Not Detected	21	Not Detected
1,1,1-Trichloroethane	4.4	Not Detected	24	Not Detected
Cyclohexane	4.4	Not Detected	15	Not Detected
Carbon Tetrachloride	4.4	Not Detected	28	Not Detected
2,2,4-Trimethylpentane	4.4	Not Detected	20	Not Detected
Benzene	4.4	Not Detected	14	Not Detected
1,2-Dichloroethane	4.4	Not Detected	18	Not Detected
Heptane	4.4	Not Detected	18	Not Detected
Trichloroethene	4.4	Not Detected	24	Not Detected
1,2-Dichloropropane	4.4	Not Detected	20	Not Detected
1,4-Dioxane	18	Not Detected	63	Not Detected
Bromodichloromethane	4.4	Not Detected	29	Not Detected
cis-1,3-Dichloropropene	4.4	Not Detected	20	Not Detected
4-Methyl-2-pentanone	4.4	Not Detected	18	Not Detected
Toluene	8.8	Not Detected	33	Not Detected
trans-1,3-Dichloropropene	4.4	Not Detected	20	Not Detected
1,1,2-Trichloroethane	4.4	Not Detected	24	Not Detected
Tetrachloroethene	4.4	600	30	4000
2-Hexanone	18	Not Detected	72	Not Detected

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Client Sample ID: SG-2D

Lab ID#: 2404202B-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041811**	**Date of Collection: 4/4/24 9:46:00 AM**	
Dil. Factor:	**8.79**	**Date of Analysis: 4/18/24 05:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	4.4	Not Detected	37	Not Detected
1,2-Dibromoethane (EDB)	4.4	Not Detected	34	Not Detected
Chlorobenzene	4.4	Not Detected	20	Not Detected
Ethyl Benzene	4.4	Not Detected	19	Not Detected
m,p-Xylene	8.8	Not Detected	38	Not Detected
o-Xylene	4.4	Not Detected	19	Not Detected
Styrene	4.4	Not Detected	19	Not Detected
Bromoform	4.4	Not Detected	45	Not Detected
Cumene	4.4	Not Detected	22	Not Detected
1,1,2,2-Tetrachloroethane	4.4	Not Detected	30	Not Detected
Propylbenzene	4.4	Not Detected	22	Not Detected
4-Ethyltoluene	4.4	Not Detected	22	Not Detected
1,3,5-Trimethylbenzene	4.4	Not Detected	22	Not Detected
1,2,4-Trimethylbenzene	4.4	Not Detected	22	Not Detected
1,3-Dichlorobenzene	4.4	Not Detected	26	Not Detected
1,4-Dichlorobenzene	4.4	Not Detected	26	Not Detected
alpha-Chlorotoluene	4.4	Not Detected	23	Not Detected
1,2-Dichlorobenzene	4.4	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	18	Not Detected	130	Not Detected
Hexachlorobutadiene	18	Not Detected	190	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SG-2

Lab ID#: 2404202B-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041812**	**Date of Collection:**	**4/4/24 9:59:00 AM**
Dil. Factor:	**5.31**	**Date of Analysis:**	**4/18/24 05:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	Not Detected	13	Not Detected
Freon 114	2.6	Not Detected	18	Not Detected
Chloromethane	26	Not Detected	55	Not Detected
Vinyl Chloride	2.6	Not Detected	6.8	Not Detected
1,3-Butadiene	2.6	Not Detected	5.9	Not Detected
Bromomethane	26	Not Detected	100	Not Detected
Chloroethane	11	Not Detected	28	Not Detected
Freon 11	2.6	760	15	4200
Ethanol	26	Not Detected	50	Not Detected
Freon 113	2.6	Not Detected	20	Not Detected
1,1-Dichloroethene	2.6	Not Detected	10	Not Detected
Acetone	26	Not Detected	63	Not Detected
2-Propanol	11	Not Detected	26	Not Detected
Carbon Disulfide	11	Not Detected	33	Not Detected
3-Chloropropene	11	Not Detected	33	Not Detected
Methylene Chloride	26	Not Detected	92	Not Detected
Methyl tert-butyl ether	11	Not Detected	38	Not Detected
trans-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Hexane	2.6	Not Detected	9.4	Not Detected
1,1-Dichloroethane	2.6	Not Detected	11	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11	Not Detected	31	Not Detected
cis-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Tetrahydrofuran	2.6	Not Detected	7.8	Not Detected
Chloroform	2.6	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.6	Not Detected	14	Not Detected
Cyclohexane	2.6	Not Detected	9.1	Not Detected
Carbon Tetrachloride	2.6	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	2.6	Not Detected	12	Not Detected
Benzene	2.6	Not Detected	8.5	Not Detected
1,2-Dichloroethane	2.6	Not Detected	11	Not Detected
Heptane	2.6	Not Detected	11	Not Detected
Trichloroethene	2.6	Not Detected	14	Not Detected
1,2-Dichloropropane	2.6	Not Detected	12	Not Detected
1,4-Dioxane	11	Not Detected	38	Not Detected
Bromodichloromethane	2.6	Not Detected	18	Not Detected
cis-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.6	Not Detected	11	Not Detected
Toluene	5.3	Not Detected	20	Not Detected
trans-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.6	Not Detected	14	Not Detected
Tetrachloroethene	2.6	470	18	3200
2-Hexanone	11	Not Detected	44	Not Detected

eurofins | Air Toxics

Client Sample ID: SG-2

Lab ID#: 2404202B-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041812**	**Date of Collection:**	**4/4/24 9:59:00 AM**
Dil. Factor:	**5.31**	**Date of Analysis:**	**4/18/24 05:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.6	Not Detected	23	Not Detected
1,2-Dibromoethane (EDB)	2.6	Not Detected	20	Not Detected
Chlorobenzene	2.6	Not Detected	12	Not Detected
Ethyl Benzene	2.6	Not Detected	12	Not Detected
m,p-Xylene	5.3	Not Detected	23	Not Detected
o-Xylene	2.6	Not Detected	12	Not Detected
Styrene	2.6	Not Detected	11	Not Detected
Bromoform	2.6	Not Detected	27	Not Detected
Cumene	2.6	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	2.6	Not Detected	18	Not Detected
Propylbenzene	2.6	Not Detected	13	Not Detected
4-Ethyltoluene	2.6	Not Detected	13	Not Detected
1,3,5-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,3-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.6	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	79	Not Detected
Hexachlorobutadiene	11	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SG-1

Lab ID#: 2404202B-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041722**	**Date of Collection:**	**4/4/24 12:18:00 PM**
Dil. Factor:	**3.96**	**Date of Analysis:**	**4/18/24 12:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.0	Not Detected	9.8	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	20	Not Detected	77	Not Detected
Chloroethane	7.9	Not Detected	21	Not Detected
Freon 11	2.0	Not Detected	11	Not Detected
Ethanol	20	Not Detected	37	Not Detected
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Acetone	20	Not Detected	47	Not Detected
2-Propanol	7.9	Not Detected	19	Not Detected
Carbon Disulfide	7.9	Not Detected	25	Not Detected
3-Chloropropene	7.9	Not Detected	25	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	7.9	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Hexane	2.0	Not Detected	7.0	Not Detected
1,1-Dichloroethane	2.0	Not Detected	8.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.9	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Tetrahydrofuran	2.0	Not Detected	5.8	Not Detected
Chloroform	2.0	Not Detected	9.7	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	Not Detected	6.8	Not Detected
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.2	Not Detected
Benzene	2.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.0	Not Detected
Heptane	2.0	Not Detected	8.1	Not Detected
Trichloroethene	2.0	Not Detected	11	Not Detected
1,2-Dichloropropane	2.0	Not Detected	9.2	Not Detected
1,4-Dioxane	7.9	Not Detected	28	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.0	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.1	Not Detected
Toluene	4.0	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	2.0	Not Detected	9.0	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	550	13	3800
2-Hexanone	7.9	Not Detected	32	Not Detected

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Client Sample ID: SG-1

Lab ID#: 2404202B-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041722**	**Date of Collection:**	**4/4/24 12:18:00 PM**
Dil. Factor:	**3.96**	**Date of Analysis:**	**4/18/24 12:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.1	Not Detected
Ethyl Benzene	2.0	Not Detected	8.6	Not Detected
m,p-Xylene	4.0	Not Detected	17	Not Detected
o-Xylene	2.0	Not Detected	8.6	Not Detected
Styrene	2.0	Not Detected	8.4	Not Detected
Bromoform	2.0	Not Detected	20	Not Detected
Cumene	2.0	Not Detected	9.7	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.7	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.7	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.7	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.7	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	7.9	Not Detected	59	Not Detected
Hexachlorobutadiene	7.9	Not Detected	84	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SG-99

Lab ID#: 2404202B-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041723**	**Date of Collection:**	**4/4/24 12:18:00 PM**
Dil. Factor:	**3.95**	**Date of Analysis:**	**4/18/24 01:07 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.0	Not Detected	9.8	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	2.0	Not Detected	5.0	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	20	Not Detected	77	Not Detected
Chloroethane	7.9	Not Detected	21	Not Detected
Freon 11	2.0	Not Detected	11	Not Detected
Ethanol	20	Not Detected	37	Not Detected
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Acetone	20	Not Detected	47	Not Detected
2-Propanol	7.9	Not Detected	19	Not Detected
Carbon Disulfide	7.9	Not Detected	25	Not Detected
3-Chloropropene	7.9	Not Detected	25	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	7.9	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Hexane	2.0	Not Detected	7.0	Not Detected
1,1-Dichloroethane	2.0	Not Detected	8.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.9	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Tetrahydrofuran	2.0	Not Detected	5.8	Not Detected
Chloroform	2.0	Not Detected	9.6	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	Not Detected	6.8	Not Detected
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.2	Not Detected
Benzene	2.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.0	Not Detected
Heptane	2.0	Not Detected	8.1	Not Detected
Trichloroethene	2.0	Not Detected	11	Not Detected
1,2-Dichloropropane	2.0	Not Detected	9.1	Not Detected
1,4-Dioxane	7.9	Not Detected	28	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.0	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.1	Not Detected
Toluene	4.0	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	2.0	Not Detected	9.0	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	540	13	3600
2-Hexanone	7.9	Not Detected	32	Not Detected

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Client Sample ID: SG-99

Lab ID#: 2404202B-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041723**	**Date of Collection:**	**4/4/24 12:18:00 PM**
Dil. Factor:	**3.95**	**Date of Analysis:**	**4/18/24 01:07 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.1	Not Detected
Ethyl Benzene	2.0	Not Detected	8.6	Not Detected
m,p-Xylene	4.0	Not Detected	17	Not Detected
o-Xylene	2.0	Not Detected	8.6	Not Detected
Styrene	2.0	Not Detected	8.4	Not Detected
Bromoform	2.0	Not Detected	20	Not Detected
Cumene	2.0	Not Detected	9.7	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.7	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.7	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.7	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.7	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	7.9	Not Detected	59	Not Detected
Hexachlorobutadiene	7.9	Not Detected	84	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SG-1D

Lab ID#: 2404202B-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041724**	**Date of Collection: 4/4/24 1:32:00 PM**	
Dil. Factor:	**14.5**	**Date of Analysis: 4/18/24 01:36 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.2	Not Detected	36	Not Detected
Freon 114	7.2	Not Detected	51	Not Detected
Chloromethane	72	Not Detected	150	Not Detected
Vinyl Chloride	7.2	Not Detected	18	Not Detected
1,3-Butadiene	7.2	Not Detected	16	Not Detected
Bromomethane	72	Not Detected	280	Not Detected
Chloroethane	29	Not Detected	76	Not Detected
Freon 11	7.2	Not Detected	41	Not Detected
Ethanol	72	Not Detected	140	Not Detected
Freon 113	7.2	Not Detected	56	Not Detected
1,1-Dichloroethene	7.2	Not Detected	29	Not Detected
Acetone	72	Not Detected	170	Not Detected
2-Propanol	29	Not Detected	71	Not Detected
Carbon Disulfide	29	Not Detected	90	Not Detected
3-Chloropropene	29	Not Detected	91	Not Detected
Methylene Chloride	72	Not Detected	250	Not Detected
Methyl tert-butyl ether	29	Not Detected	100	Not Detected
trans-1,2-Dichloroethene	7.2	Not Detected	29	Not Detected
Hexane	7.2	Not Detected	26	Not Detected
1,1-Dichloroethane	7.2	Not Detected	29	Not Detected
2-Butanone (Methyl Ethyl Ketone)	29	Not Detected	86	Not Detected
cis-1,2-Dichloroethene	7.2	Not Detected	29	Not Detected
Tetrahydrofuran	7.2	Not Detected	21	Not Detected
Chloroform	7.2	Not Detected	35	Not Detected
1,1,1-Trichloroethane	7.2	Not Detected	40	Not Detected
Cyclohexane	7.2	Not Detected	25	Not Detected
Carbon Tetrachloride	7.2	Not Detected	46	Not Detected
2,2,4-Trimethylpentane	7.2	Not Detected	34	Not Detected
Benzene	7.2	Not Detected	23	Not Detected
1,2-Dichloroethane	7.2	Not Detected	29	Not Detected
Heptane	7.2	Not Detected	30	Not Detected
Trichloroethene	7.2	Not Detected	39	Not Detected
1,2-Dichloropropane	7.2	Not Detected	34	Not Detected
1,4-Dioxane	29	Not Detected	100	Not Detected
Bromodichloromethane	7.2	Not Detected	48	Not Detected
cis-1,3-Dichloropropene	7.2	Not Detected	33	Not Detected
4-Methyl-2-pentanone	7.2	Not Detected	30	Not Detected
Toluene	14	Not Detected	55	Not Detected
trans-1,3-Dichloropropene	7.2	Not Detected	33	Not Detected
1,1,2-Trichloroethane	7.2	Not Detected	40	Not Detected
Tetrachloroethene	7.2	1900	49	13000
2-Hexanone	29	Not Detected	120	Not Detected

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Client Sample ID: SG-1D

Lab ID#: 2404202B-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041724**	**Date of Collection: 4/4/24 1:32:00 PM**	
Dil. Factor:	**14.5**	**Date of Analysis: 4/18/24 01:36 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.2	Not Detected	62	Not Detected
1,2-Dibromoethane (EDB)	7.2	Not Detected	56	Not Detected
Chlorobenzene	7.2	Not Detected	33	Not Detected
Ethyl Benzene	7.2	Not Detected	31	Not Detected
m,p-Xylene	14	Not Detected	63	Not Detected
o-Xylene	7.2	Not Detected	31	Not Detected
Styrene	7.2	Not Detected	31	Not Detected
Bromoform	7.2	Not Detected	75	Not Detected
Cumene	7.2	Not Detected	36	Not Detected
1,1,2,2-Tetrachloroethane	7.2	Not Detected	50	Not Detected
Propylbenzene	7.2	Not Detected	36	Not Detected
4-Ethyltoluene	7.2	Not Detected	36	Not Detected
1,3,5-Trimethylbenzene	7.2	Not Detected	36	Not Detected
1,2,4-Trimethylbenzene	7.2	Not Detected	36	Not Detected
1,3-Dichlorobenzene	7.2	Not Detected	44	Not Detected
1,4-Dichlorobenzene	7.2	Not Detected	44	Not Detected
alpha-Chlorotoluene	7.2	Not Detected	38	Not Detected
1,2-Dichlorobenzene	7.2	Not Detected	44	Not Detected
1,2,4-Trichlorobenzene	29	Not Detected	220	Not Detected
Hexachlorobutadiene	29	Not Detected	310	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2404202B-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041606d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 12:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2404202B-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041606d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 12:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2404202B-21B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 01:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2404202B-21B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 01:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2404202B-21C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041806a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2404202B-21C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041806a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 2404202B-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 09:26 AM**

Compound	%Recovery
Freon 12	94
Freon 114	96
Chloromethane	85
Vinyl Chloride	102
1,3-Butadiene	98
Bromomethane	101
Chloroethane	109
Freon 11	95
Ethanol	100
Freon 113	94
1,1-Dichloroethene	99
Acetone	104
2-Propanol	106
Carbon Disulfide	112
3-Chloropropene	111
Methylene Chloride	104
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	100
Hexane	106
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	100
Tetrahydrofuran	106
Chloroform	101
1,1,1-Trichloroethane	95
Cyclohexane	110
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	98
Benzene	100
1,2-Dichloroethane	86
Heptane	99
Trichloroethene	94
1,2-Dichloropropane	97
1,4-Dioxane	106
Bromodichloromethane	91
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	98
Toluene	96
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	86
Tetrachloroethene	95
2-Hexanone	95

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Client Sample ID: CCV

Lab ID#: 2404202B-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 09:26 AM**

Compound	%Recovery
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	89
Chlorobenzene	87
Ethyl Benzene	90
m,p-Xylene	93
o-Xylene	92
Styrene	93
Bromoform	102
Cumene	94
1,1,2,2-Tetrachloroethane	88
Propylbenzene	94
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	84
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	115	70-130

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Client Sample ID: CCV

Lab ID#: 2404202B-22B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 11:04 AM**

Compound	%Recovery
Freon 12	95
Freon 114	96
Chloromethane	104
Vinyl Chloride	103
1,3-Butadiene	93
Bromomethane	130
Chloroethane	99
Freon 11	92
Ethanol	103
Freon 113	93
1,1-Dichloroethene	94
Acetone	99
2-Propanol	92
Carbon Disulfide	101
3-Chloropropene	94
Methylene Chloride	100
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	95
Hexane	97
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	93
Tetrahydrofuran	96
Chloroform	95
1,1,1-Trichloroethane	91
Cyclohexane	93
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	96
Benzene	102
1,2-Dichloroethane	95
Heptane	90
Trichloroethene	100
1,2-Dichloropropane	102
1,4-Dioxane	100
Bromodichloromethane	97
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	95
Toluene	102
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	95
Tetrachloroethene	103
2-Hexanone	96

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Client Sample ID: CCV

Lab ID#: 2404202B-22B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 11:04 AM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	98
Chlorobenzene	99
Ethyl Benzene	98
m,p-Xylene	97
o-Xylene	95
Styrene	98
Bromoform	103
Cumene	94
1,1,2,2-Tetrachloroethane	96
Propylbenzene	97
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: CCV

Lab ID#: 2404202B-22C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 11:59 AM**

Compound	%Recovery
Freon 12	94
Freon 114	95
Chloromethane	105
Vinyl Chloride	104
1,3-Butadiene	93
Bromomethane	129
Chloroethane	101
Freon 11	91
Ethanol	105
Freon 113	92
1,1-Dichloroethene	94
Acetone	98
2-Propanol	92
Carbon Disulfide	101
3-Chloropropene	94
Methylene Chloride	101
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	94
Hexane	97
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	92
Tetrahydrofuran	96
Chloroform	94
1,1,1-Trichloroethane	90
Cyclohexane	92
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	97
Benzene	104
1,2-Dichloroethane	98
Heptane	92
Trichloroethene	100
1,2-Dichloropropane	105
1,4-Dioxane	101
Bromodichloromethane	99
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	96
Toluene	104
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	96
Tetrachloroethene	103
2-Hexanone	96

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Client Sample ID: CCV

Lab ID#: 2404202B-22C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 11:59 AM**	

Compound	%Recovery
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	100
Chlorobenzene	100
Ethyl Benzene	99
m,p-Xylene	98
o-Xylene	96
Styrene	98
Bromoform	103
Cumene	95
1,1,2,2-Tetrachloroethane	97
Propylbenzene	99
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 2404202B-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 10:26 AM**	

Compound	%Recovery	Method Limits
Freon 12	87	70-130
Freon 114	90	70-130
Chloromethane	83	70-130
Vinyl Chloride	99	70-130
1,3-Butadiene	94	70-130
Bromomethane	96	70-130
Chloroethane	104	70-130
Freon 11	88	70-130
Ethanol	114	70-130
Freon 113	88	70-130
1,1-Dichloroethene	91	70-130
Acetone	102	70-130
2-Propanol	106	70-130
Carbon Disulfide	110	70-130
3-Chloropropene	91	70-130
Methylene Chloride	96	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	92	70-130
Hexane	101	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	93	70-130
Tetrahydrofuran	109	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	88	70-130
Cyclohexane	104	70-130
Carbon Tetrachloride	77	70-130
2,2,4-Trimethylpentane	93	70-130
Benzene	96	70-130
1,2-Dichloroethane	82	70-130
Heptane	96	70-130
Trichloroethene	91	70-130
1,2-Dichloropropane	93	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	89	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	98	70-130
Toluene	90	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	88	70-130
Tetrachloroethene	96	70-130
2-Hexanone	97	70-130

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Client Sample ID: LCS

Lab ID#: 2404202B-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 10:26 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	84	70-130
1,2-Dibromoethane (EDB)	88	70-130
Chlorobenzene	87	70-130
Ethyl Benzene	91	70-130
m,p-Xylene	92	70-130
o-Xylene	93	70-130
Styrene	93	70-130
Bromoform	93	70-130
Cumene	93	70-130
1,1,2,2-Tetrachloroethane	89	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	89	70-130
1,3,5-Trimethylbenzene	88	70-130
1,2,4-Trimethylbenzene	90	70-130
1,3-Dichlorobenzene	85	70-130
1,4-Dichlorobenzene	85	70-130
alpha-Chlorotoluene	92	70-130
1,2-Dichlorobenzene	89	70-130
1,2,4-Trichlorobenzene	104	70-130
Hexachlorobutadiene	100	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	115	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202B-23AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 11:03 AM**	

Compound	%Recovery	Method Limits
Freon 12	87	70-130
Freon 114	87	70-130
Chloromethane	83	70-130
Vinyl Chloride	99	70-130
1,3-Butadiene	94	70-130
Bromomethane	95	70-130
Chloroethane	104	70-130
Freon 11	86	70-130
Ethanol	117	70-130
Freon 113	89	70-130
1,1-Dichloroethene	89	70-130
Acetone	102	70-130
2-Propanol	108	70-130
Carbon Disulfide	108	70-130
3-Chloropropene	91	70-130
Methylene Chloride	94	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	102	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	92	70-130
Tetrahydrofuran	107	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	88	70-130
Cyclohexane	104	70-130
Carbon Tetrachloride	78	70-130
2,2,4-Trimethylpentane	106	70-130
Benzene	95	70-130
1,2-Dichloroethane	81	70-130
Heptane	96	70-130
Trichloroethene	90	70-130
1,2-Dichloropropane	93	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	90	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	97	70-130
Toluene	87	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	88	70-130
Tetrachloroethene	99	70-130
2-Hexanone	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202B-23AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22041604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/24 11:03 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	86	70-130
1,2-Dibromoethane (EDB)	90	70-130
Chlorobenzene	89	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	92	70-130
o-Xylene	92	70-130
Styrene	93	70-130
Bromoform	94	70-130
Cumene	93	70-130
1,1,2,2-Tetrachloroethane	90	70-130
Propylbenzene	95	70-130
4-Ethyltoluene	90	70-130
1,3,5-Trimethylbenzene	88	70-130
1,2,4-Trimethylbenzene	90	70-130
1,3-Dichlorobenzene	86	70-130
1,4-Dichlorobenzene	86	70-130
alpha-Chlorotoluene	90	70-130
1,2-Dichlorobenzene	90	70-130
1,2,4-Trichlorobenzene	103	70-130
Hexachlorobutadiene	101	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	115	70-130

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Client Sample ID: LCS

Lab ID#: 2404202B-23B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 11:34 AM**	

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	98	70-130
Chloromethane	106	70-130
Vinyl Chloride	105	70-130
1,3-Butadiene	94	70-130
Bromomethane	132 Q	70-130
Chloroethane	103	70-130
Freon 11	93	70-130
Ethanol	122	70-130
Freon 113	91	70-130
1,1-Dichloroethene	93	70-130
Acetone	102	70-130
2-Propanol	100	70-130
Carbon Disulfide	106	70-130
3-Chloropropene	98	70-130
Methylene Chloride	101	70-130
Methyl tert-butyl ether	95	70-130
trans-1,2-Dichloroethene	95	70-130
Hexane	99	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	95	70-130
Tetrahydrofuran	106	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	91	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	99	70-130
Benzene	104	70-130
1,2-Dichloroethane	98	70-130
Heptane	94	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	97	70-130
cis-1,3-Dichloropropene	99	70-130
4-Methyl-2-pentanone	99	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	105	70-130
2-Hexanone	100	70-130

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Client Sample ID: LCS

Lab ID#: 2404202B-23B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 11:34 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	100	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	101	70-130
o-Xylene	99	70-130
Styrene	99	70-130
Bromoform	103	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	97	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	103	70-130
Hexachlorobutadiene	107	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202B-23BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 12:04 PM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	95	70-130
Chloromethane	102	70-130
Vinyl Chloride	103	70-130
1,3-Butadiene	92	70-130
Bromomethane	126	70-130
Chloroethane	102	70-130
Freon 11	90	70-130
Ethanol	122	70-130
Freon 113	88	70-130
1,1-Dichloroethene	90	70-130
Acetone	97	70-130
2-Propanol	98	70-130
Carbon Disulfide	103	70-130
3-Chloropropene	95	70-130
Methylene Chloride	98	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	98	70-130
1,1-Dichloroethane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	92	70-130
Tetrahydrofuran	104	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	90	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	103	70-130
1,2-Dichloroethane	98	70-130
Heptane	94	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	97	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	99	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	104	70-130
2-Hexanone	100	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202B-23BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/24 12:04 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	99	70-130
o-Xylene	98	70-130
Styrene	98	70-130
Bromoform	102	70-130
Cumene	96	70-130
1,1,2,2-Tetrachloroethane	97	70-130
Propylbenzene	98	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	109	70-130
Hexachlorobutadiene	111	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 2404202B-23C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 12:29 PM**	

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	97	70-130
Chloromethane	107	70-130
Vinyl Chloride	107	70-130
1,3-Butadiene	96	70-130
Bromomethane	133 Q	70-130
Chloroethane	103	70-130
Freon 11	93	70-130
Ethanol	123	70-130
Freon 113	91	70-130
1,1-Dichloroethene	94	70-130
Acetone	102	70-130
2-Propanol	100	70-130
Carbon Disulfide	106	70-130
3-Chloropropene	97	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	95	70-130
trans-1,2-Dichloroethene	96	70-130
Hexane	100	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	93	70-130
Tetrahydrofuran	106	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	97	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	105	70-130
1,2-Dichloroethane	99	70-130
Heptane	95	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	100	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	105	70-130
2-Hexanone	100	70-130

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Client Sample ID: LCS

Lab ID#: 2404202B-23C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 12:29 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	100	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	100	70-130
o-Xylene	99	70-130
Styrene	98	70-130
Bromoform	103	70-130
Cumene	97	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	97	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	102	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	97	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	104	70-130
Hexachlorobutadiene	109	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202B-23CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 12:58 PM**	

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	97	70-130
Chloromethane	106	70-130
Vinyl Chloride	107	70-130
1,3-Butadiene	96	70-130
Bromomethane	130	70-130
Chloroethane	103	70-130
Freon 11	93	70-130
Ethanol	124	70-130
Freon 113	91	70-130
1,1-Dichloroethene	93	70-130
Acetone	102	70-130
2-Propanol	102	70-130
Carbon Disulfide	105	70-130
3-Chloropropene	98	70-130
Methylene Chloride	101	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	95	70-130
Hexane	100	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	96	70-130
Tetrahydrofuran	107	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	95	70-130
2,2,4-Trimethylpentane	101	70-130
Benzene	104	70-130
1,2-Dichloroethane	99	70-130
Heptane	95	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	100	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	106	70-130
2-Hexanone	101	70-130

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Client Sample ID: LCSD

Lab ID#: 2404202B-23CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/24 12:58 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	100	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	100	70-130
o-Xylene	100	70-130
Styrene	99	70-130
Bromoform	102	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	99	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	97	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	110	70-130
Hexachlorobutadiene	114	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	104	70-130

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Analysis Request /Canister Chain of Custody

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

For Laboratory Use Only
PID: _____ Workorder #: 240457.5

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: PUG Environmental PID:
Project Name: Spring Fuel
Project Manager: Guy Jaez P.O.# 1176
Sampler: Jay Griffin
Site Name: Spring Fuel

Special Instructions/Notes:

Turnaround Time (Rush surcharges may apply)
Select TAT from drop down box

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO15 77			
01A	SG-34	GL1665	24622	041624	1224	041624	1259	-27.5	-5			X			
02A	SG-16D	GL2002	25523	1	1316	1	1356	-30	-5			X			

Relinquished by: (Signature/Affiliation)	Date 041624	Time 1500	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation) FEDEX	Date 4/18/24	Time 9:53
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fedex | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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5/2/2024
Mr. Guy Tanz
PNG Environmental
6665 SW Hampton St
Suite 101
Tigard OR 97223

Project Name: Spring Field
Project #:
Workorder #: 2404573R1

Dear Mr. Guy Tanz

The following report includes the data for the above referenced project for sample(s) received on 4/18/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Nazanin Khorrami at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Nazanin Khorrami

Nazanin Khorrami

Project Manager

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WORK ORDER #: 2404573R1

Work Order Summary

CLIENT:	Mr. Guy Tanz PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223	**BILL TO:**	Mr. Guy Tanz PNG Environmental 6665 SW Hampton St Suite 101 Tigard, OR 97223
PHONE:	503-620-2387	**P.O. #**	1176
FAX:	503-620-2977	**PROJECT #**	Spring Field
DATE RECEIVED:	04/18/2024	**CONTACT:**	Nazanin Khorrami
DATE COMPLETED:	05/01/2024		
DATE REISSUED:	05/01/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SG-24	Modified TO-15	5.1 "Hg	1.8 psi
02A	SG-16D	Modified TO-15	5.3 "Hg	1.9 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 05/02/24

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
Modified TO-15
PNG Environmental
Workorder# 2404573R1

Two 6 Liter Summa Canister (100% Certified) samples were received on April 18, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

The workorder was reissued on 5/02/2024 to correct sample collection date due to laboratory transcription error.

Analytical Notes

Dilution was performed on sample SG-16D due to matrix interference.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-24

Lab ID#: 2404573R1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	0.21	0.30	0.46
Freon 11	0.14	0.21	0.76	1.2
Acetone	2.7	5.2	6.4	12
Benzene	0.14	0.18	0.43	0.58
4-Methyl-2-pentanone	0.14	0.77	0.55	3.1
Toluene	1.4	2.3	5.1	8.8
Tetrachloroethene	0.14	1.8	0.92	12
Ethyl Benzene	0.14	0.96	0.59	4.2
m,p-Xylene	0.14	4.5	0.59	20
o-Xylene	0.14	1.0	0.59	4.4
1,2,4-Trimethylbenzene	0.14	0.24	0.66	1.2
1,3-Dichlorobenzene	0.14	0.27	0.81	1.6

Client Sample ID: SG-16D

Lab ID#: 2404573R1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.69	1.4	1.8	3.7
1,3-Butadiene	0.69	14	1.5	32
Acetone	14	57	32	140
Carbon Disulfide	34	59	110	180
Hexane	3.4	12	12	42
Chloroform	0.69	4.5	3.3	22
Cyclohexane	3.4	4.8	12	16
Benzene	0.69	10	2.2	32
Heptane	3.4	12	14	50
4-Methyl-2-pentanone	0.69	0.97	2.8	4.0
Toluene	6.9	34	26	130
Tetrachloroethene	0.69	2.3	4.6	16
Ethyl Benzene	0.69	3.9	3.0	17
m,p-Xylene	0.69	15	3.0	65
o-Xylene	0.69	4.7	3.0	20
4-Ethyltoluene	0.69	0.67 J	3.4	3.3 J

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SG-16D

Lab ID#: 2404573R1-02A

1,3,5-Trimethylbenzene	0.69	0.67 J	3.4	3.3 J
1,2,4-Trimethylbenzene	0.69	2.2	3.4	11

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Client Sample ID: SG-24

Lab ID#: 2404573R1-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042622**	**Date of Collection:**	**4/16/24 12:59:00 PM**
Dil. Factor:	**1.35**	**Date of Analysis:**	**4/26/24 11:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.68	Not Detected	3.3	Not Detected
Freon 114	0.14	Not Detected	0.94	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
Vinyl Chloride	0.14	Not Detected	0.34	Not Detected
1,3-Butadiene	0.14	0.21	0.30	0.46
Bromomethane	6.8	Not Detected	26	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	0.21	0.76	1.2
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	2.7	5.2	6.4	12
2-Propanol	2.7	Not Detected	6.6	Not Detected
Carbon Disulfide	6.8	Not Detected	21	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.68	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	8.0	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.85	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.14	0.18	0.43	0.58
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.14	Not Detected	0.72	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.62	Not Detected
1,4-Dioxane	0.68	Not Detected	2.4	Not Detected
Bromodichloromethane	0.14	Not Detected	0.90	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
4-Methyl-2-pentanone	0.14	0.77	0.55	3.1
Toluene	1.4	2.3	5.1	8.8
trans-1,3-Dichloropropene	0.14	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	1.8	0.92	12
2-Hexanone	0.68	Not Detected	2.8	Not Detected

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Client Sample ID: SG-24

Lab ID#: 2404573R1-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042622**	**Date of Collection: 4/16/24 12:59:00 PM**	
Dil. Factor:	**1.35**	**Date of Analysis: 4/26/24 11:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.62	Not Detected
Ethyl Benzene	0.14	0.96	0.59	4.2
m,p-Xylene	0.14	4.5	0.59	20
o-Xylene	0.14	1.0	0.59	4.4
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.66	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
Propylbenzene	0.14	Not Detected	0.66	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.66	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.66	Not Detected
1,2,4-Trimethylbenzene	0.14	0.24	0.66	1.2
1,3-Dichlorobenzene	0.14	0.27	0.81	1.6
1,4-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.81	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: SG-16D

Lab ID#: 2404573R1-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042620**	**Date of Collection:**	**4/16/24 1:36:00 PM**
Dil. Factor:	**6.86**	**Date of Analysis:**	**4/26/24 09:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.4	Not Detected	17	Not Detected
Freon 114	0.69	Not Detected	4.8	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
Vinyl Chloride	0.69	1.4	1.8	3.7
1,3-Butadiene	0.69	14	1.5	32
Bromomethane	34	Not Detected	130	Not Detected
Chloroethane	3.4	Not Detected	9.0	Not Detected
Freon 11	0.69	Not Detected	3.8	Not Detected
Ethanol	14	Not Detected	26	Not Detected
Freon 113	0.69	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.69	Not Detected	2.7	Not Detected
Acetone	14	57	32	140
2-Propanol	14	Not Detected	34	Not Detected
Carbon Disulfide	34	59	110	180
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	3.4	Not Detected	12	Not Detected
Methyl tert-butyl ether	0.69	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.69	Not Detected	2.7	Not Detected
Hexane	3.4	12	12	42
1,1-Dichloroethane	0.69	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	14	Not Detected	40	Not Detected
cis-1,2-Dichloroethene	0.69	Not Detected	2.7	Not Detected
Tetrahydrofuran	3.4	Not Detected	10	Not Detected
Chloroform	0.69	4.5	3.3	22
1,1,1-Trichloroethane	0.69	Not Detected	3.7	Not Detected
Cyclohexane	3.4	4.8	12	16
Carbon Tetrachloride	0.69	Not Detected	4.3	Not Detected
2,2,4-Trimethylpentane	3.4	Not Detected	16	Not Detected
Benzene	0.69	10	2.2	32
1,2-Dichloroethane	0.69	Not Detected	2.8	Not Detected
Heptane	3.4	12	14	50
Trichloroethene	0.69	Not Detected	3.7	Not Detected
1,2-Dichloropropane	0.69	Not Detected	3.2	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
Bromodichloromethane	0.69	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	0.69	Not Detected	3.1	Not Detected
4-Methyl-2-pentanone	0.69	0.97	2.8	4.0
Toluene	6.9	34	26	130
trans-1,3-Dichloropropene	0.69	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.69	Not Detected	3.7	Not Detected
Tetrachloroethene	0.69	2.3	4.6	16
2-Hexanone	3.4	Not Detected	14	Not Detected

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Client Sample ID: SG-16D

Lab ID#: 2404573R1-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042620**	**Date of Collection: 4/16/24 1:36:00 PM**	
Dil. Factor:	**6.86**	**Date of Analysis: 4/26/24 09:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.69	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.69	Not Detected	5.3	Not Detected
Chlorobenzene	0.69	Not Detected	3.2	Not Detected
Ethyl Benzene	0.69	3.9	3.0	17
m,p-Xylene	0.69	15	3.0	65
o-Xylene	0.69	4.7	3.0	20
Styrene	0.69	Not Detected	2.9	Not Detected
Bromoform	0.69	Not Detected	7.1	Not Detected
Cumene	0.69	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.69	Not Detected	4.7	Not Detected
Propylbenzene	0.69	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.69	0.67 J	3.4	3.3 J
1,3,5-Trimethylbenzene	0.69	0.67 J	3.4	3.3 J
1,2,4-Trimethylbenzene	0.69	2.2	3.4	11
1,3-Dichlorobenzene	0.69	Not Detected	4.1	Not Detected
1,4-Dichlorobenzene	0.69	Not Detected	4.1	Not Detected
alpha-Chlorotoluene	0.69	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.69	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2404573R1-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042607e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 12:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2404573R1-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042607e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 12:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 2404573R1-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 08:49 AM**

Compound	%Recovery
Freon 12	98
Freon 114	94
Chloromethane	90
Vinyl Chloride	97
1,3-Butadiene	98
Bromomethane	103
Chloroethane	92
Freon 11	101
Ethanol	92
Freon 113	94
1,1-Dichloroethene	101
Acetone	89
2-Propanol	102
Carbon Disulfide	101
3-Chloropropene	110
Methylene Chloride	93
Methyl tert-butyl ether	113
trans-1,2-Dichloroethene	104
Hexane	110
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	101
Tetrahydrofuran	99
Chloroform	96
1,1,1-Trichloroethane	100
Cyclohexane	114
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	105
Benzene	92
1,2-Dichloroethane	89
Heptane	98
Trichloroethene	93
1,2-Dichloropropane	91
1,4-Dioxane	110
Bromodichloromethane	96
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	106
Toluene	94
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	95
Tetrachloroethene	97
2-Hexanone	113

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Client Sample ID: CCV

Lab ID#: 2404573R1-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 08:49 AM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	98
Chlorobenzene	98
Ethyl Benzene	105
m,p-Xylene	110
o-Xylene	112
Styrene	112
Bromoform	93
Cumene	113
1,1,2,2-Tetrachloroethane	84
Propylbenzene	109
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 2404573R1-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 09:37 AM**	

Compound	%Recovery	Method Limits
Freon 12	88	70-130
Freon 114	87	70-130
Chloromethane	82	70-130
Vinyl Chloride	88	70-130
1,3-Butadiene	92	70-130
Bromomethane	102	70-130
Chloroethane	87	70-130
Freon 11	94	70-130
Ethanol	100	70-130
Freon 113	86	70-130
1,1-Dichloroethene	92	70-130
Acetone	87	70-130
2-Propanol	99	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	81	70-130
Methylene Chloride	85	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	100	70-130
1,1-Dichloroethane	89	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
cis-1,2-Dichloroethene	94	70-130
Tetrahydrofuran	97	70-130
Chloroform	88	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	108	70-130
Carbon Tetrachloride	69 Q	70-130
2,2,4-Trimethylpentane	94	70-130
Benzene	83	70-130
1,2-Dichloroethane	81	70-130
Heptane	88	70-130
Trichloroethene	87	70-130
1,2-Dichloropropane	82	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	90	70-130
cis-1,3-Dichloropropene	89	70-130
4-Methyl-2-pentanone	88	70-130
Toluene	82	70-130
trans-1,3-Dichloropropene	93	70-130
1,1,2-Trichloroethane	91	70-130
Tetrachloroethene	93	70-130
2-Hexanone	96	70-130

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Client Sample ID: LCS

Lab ID#: 2404573R1-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 09:37 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	90	70-130
1,2-Dibromoethane (EDB)	92	70-130
Chlorobenzene	90	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	102	70-130
o-Xylene	107	70-130
Styrene	104	70-130
Bromoform	84	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	76	70-130
Propylbenzene	101	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	87	70-130
1,4-Dichlorobenzene	89	70-130
alpha-Chlorotoluene	89	70-130
1,2-Dichlorobenzene	83	70-130
1,2,4-Trichlorobenzene	88	70-130
Hexachlorobutadiene	89	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2404573R1-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 10:17 AM**	

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	88	70-130
Chloromethane	84	70-130
Vinyl Chloride	90	70-130
1,3-Butadiene	93	70-130
Bromomethane	100	70-130
Chloroethane	88	70-130
Freon 11	95	70-130
Ethanol	97	70-130
Freon 113	86	70-130
1,1-Dichloroethene	95	70-130
Acetone	88	70-130
2-Propanol	102	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	80	70-130
Methylene Chloride	84	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	104	70-130
1,1-Dichloroethane	90	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	93	70-130
Tetrahydrofuran	100	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	94	70-130
Cyclohexane	110	70-130
Carbon Tetrachloride	70	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	85	70-130
1,2-Dichloroethane	82	70-130
Heptane	89	70-130
Trichloroethene	89	70-130
1,2-Dichloropropane	83	70-130
1,4-Dioxane	97	70-130
Bromodichloromethane	88	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	83	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	90	70-130
2-Hexanone	96	70-130

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Client Sample ID: LCSD

Lab ID#: 2404573R1-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**v042604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/26/24 10:17 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	89	70-130
1,2-Dibromoethane (EDB)	91	70-130
Chlorobenzene	89	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	97	70-130
o-Xylene	100	70-130
Styrene	99	70-130
Bromoform	85	70-130
Cumene	102	70-130
1,1,2,2-Tetrachloroethane	79	70-130
Propylbenzene	101	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	84	70-130
1,4-Dichlorobenzene	86	70-130
alpha-Chlorotoluene	82	70-130
1,2-Dichlorobenzene	80	70-130
1,2,4-Trichlorobenzene	83	70-130
Hexachlorobutadiene	87	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130