April 24, 2025

David Unruh, LHG
VCP Coordinator
Washington State Department of Ecology
Toxics Cleanup Program, Northwest Region Office
PO Box 330316
Shoreline, WA 98133

Re: Response to Ecology Letter dated March 25, 2025
Snohomish Square Cleaners
1419 Avenue D and 13th Street Southeast
Snohomish, Washington 98290

Dear Mr. Unruh:

J.S. Held, LLC (J.S. Held) is pleased to submit this *Response to Ecology Letter* to the Washington State Department of Ecology's (Ecology) *Request for Evaluation of Trichloroethene Risks*, dated March 25, 2025, for the former Snohomish Square Cleaners located at Avenue D and 13th Street Southeast in Snohomish, Washington (subject property). The opinions presented in this letter are provided to support the current property owner, Skotdal Enterprises, Inc. ("Client" or "Skotdal") efforts to comply with the requirements of the Model Toxics Control Act (Revised Code of Washington [RCW] 70A.305) and its implementing regulations (Washington Administrative Code [WAC] 173-340, collectively "MTCA").

Description

The subject property is located in a commercially developed area in the City of Snohomish. The property is currently zoned for commercial development and contains multiple commercial buildings. The subject property is approximately 12 acres in size. The Snohomish Square Cleaners was located in the north-central building at the subject property. Dry-cleaning operations at the Snohomish Square Cleaners ceased in the early 2000s. The location of the Snohomish Square Cleaners and surrounding properties is depicted on **Figure 1A.**

Background

PCE impacts to soil and groundwater were first identified during a limited subsurface investigation performed by Golder Associates (Golder) in 2003. Follow up investigations performed by Golder and ERM West, Inc. (ERM) indicated that the source area of the PCE was located near a planter box in the northern portion of the subject property. Source removal was performed by ERM in 2006 to lessen continued impacts to groundwater.

PCE impacts to groundwater originating from the facility were also identified on the "upper terrace" of the southwestern adjacent Snohomish County parcel in 2010. This is documented in a *Phase II Environmental Site Assessment Data* letter report prepared by CDM Smith, dated August 30, 2010. The source of the impacts was identified as the Snohomish Square Cleaners. The "Site", as defined by MTCA,

includes portions of the subject property as well as the "upper terrace" of the downgradient Snohomish County-owned property (Snohomish property). The full extent of the groundwater plume prior to conducting interim remedial actions (IRAs) at the Site is depicted on **Figure 1A**.

The Site was enrolled in the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP) in April 2010. The VCP site ID is NW2740. Environmental Partners, Inc. (EPI) and TRC Environmental Corporation (TRC) performed several rounds of investigation at the Site.

In-situ Bioremediation Events

A total of eight separate injection events of *in-situ* treatments utilizing enhanced reductive dechlorination (ERD), which is a bioaugmentation remediation technology, have occurred at the Site. These events were conducted from 2016 through 2018 and 2021 and 2024. A total of 28,760 gallons of bioremediation media were injected into the 27 treatment wells during the eight injection events. The treatments were conducted to address groundwater impacted with PCE and other chlorinated volatile organic compounds (cVOCs) at the release area near the former planter box and throughout the Site-wide groundwater plume.

The full extent of the plume prior to *in-situ* treatments is depicted on **Figure 1A**. The current extent of the plume is depicted on **Figure 1B**, shows a significant reduction in plume size since the implementation of *in-situ* treatments.

Groundwater Sampling

Groundwater monitoring has been generally conducted on a quarterly basis at the Site from February 2016 through January 2025. The monitoring generally included one annual sampling event where all wells were sampled throughout the Site and three quarterly sampling events in which a limited select number of wells were sampled.

A total of 643 groundwater samples were collected at the site between February 2016 and January 2025. Each groundwater sample was submitted for analysis of cVOCs using U.S. Environmental Protection Agency (EPA) Method 8260C. Comprehensive groundwater data for the Site collected since 2016 and is included in the attached **Table 1**.

Groundwater analytical results from 2016 to 2025 indicate that the size of the groundwater plume and concentrations of PCE (the primary Site contaminant of concern [COC]) have been significantly reduced at the Site. The reduction is attributed to the ongoing IRAs (i.e. *in-situ* groundwater treatment) which have proven to be effective in improving groundwater conditions at the site.

The effectiveness of the ongoing IRAs is evidenced by the groundwater trend analysis below.

- The maximum PCE concentration detected at the Site pre-remediation was 414 ug/L, detected in 2007. Three other wells at the site exceeded 300 ug/L in this general timeframe. After source removal in 2006 and ERD *in-situ* treatments, the maximum PCE concentration at the Site in 2025

is 60 ug/L, which was only in one well (MW-20). The next highest concentration detected is 16 ug/L. The magnitude of impacted groundwater has been greatly reduced with the ongoing IRA's.

- In 2016, the size of the PCE plume totaled 99,400 ft^2. In 2025, the size of the PCE plume totaled 40,500 ft^2. The PCE plume has been reduced by a total of 59% since 2016.

- The average concentration of PCE in 2016 was 21 µg/L. The average concentration of PCE in 2025 was 5.1 µg/L. This is a 76% reduction of PCE concentrations at the site.

- The average concentration of TCE in 2016 was 3.58 µg/L. The average concentration of TCE in 2025 was 3.37 µg/L. TCE concentrations are relatively stable.

Vapor Intrusion Studies

Several vapor intrusion (VI) studies have been performed at the Site.

EPI Sub-Slab Soil Gas Sampling (2016)

In 2016, EPI performed a VI study that involved collecting sub-slab soil gas samples from six locations (VP1 through VP6). Samples were collected using dedicated vapor pins installed through the floor slab. Soil gas samples were submitted to for analysis of cVOCs using EPA Method TO-15. A map of EPI's sample locations corresponding to each sample listed in the provided table could not be located. However, **Figure 1A** indicates the general locations of the sub-slab soil gas samples as indicated by proposal documents provided by Skotdal.

A summary of sub-slab soil gas results is provided in **Table 2.** Analytical results indicated that sub-slab PCE and TCE soil gas concentrations were in compliance with MTCA Method B residential screening levels effective at the time of the study.

This sub slab soil gas data was reviewed with current regulations and all samples remain in compliance. Sample concentrations are below the MTCA Commercial Worker Sub-Slab Soil Gas Screening Level (Commercial Worker SL) for both PCE and TCE. The highest concentration of PCE detected was 86.8 micrograms per cubic meter (µg/m^3), well below the current Commercial Worker SL of 1,500 µg/m^3. Trichloroethylene (TCE) was detected in one sample, VP3, at a concentration of 11.6 µg/m^3, well below the current Commercial Worker SL of 95 µg/m^3.

J.S. Held reviewed Appendix A of the Washington State Department of Ecology *Vapor Intrusion Guidance* Publication No. 09-09-047. Accordingly, TCE concentrations at the Site are also in compliance with short term subsurface screening levels of 67 µg/m^3 for residential purposes and well below short term subsurface screening levels of 250 µg/m^3 for commercial purposes.

Copies of the original laboratory report for the 2016 sub slab soil gas sampling event is included in **Attachment A**.

AGI Environmental Survey (2019)

EPI performed a soil gas survey using Applied Geochemical Imaging, LLC (AGI) survey techniques in May 2019. The objective of the soil gas survey was to identify the location(s) where PCE and its breakdown products, TCE, cis-1,2-dichloroethene (cis-1,2 DCE) and vinyl chloride (VC) might be present in soil vapor around the sewer line in the vicinity of MW-15. Locations of accumulated vapors may be indicative of additional source material remaining in soils that was 'short circuiting' *in-situ* treatments.

The findings of the survey indicated impacts of PCE present southeast of MW-15. The highest concentration of PCE detected during the soil gas survey was located just outside the northeast corner of the existing Key Bank building.

A copy of the AGI soil gas survey is included in **Attachment B**.

TRC Key Bank Vapor Intrusion Assessment (2020)

TRC performed a Tier II Vapor Intrusion (VI) Assessment in January 2020 to assess the potential VI risk to the Key Bank building. A total of two sub-slab soil gas samples (KB-VP1 and KB-VP2) were collected within the Key Bank. Sub-slab soil gas samples were collected from dedicated vapor pins installed through the floor slab. Soil gas samples were submitted for analysis of cVOCs using EPA Method TO-15.

Analytical results indicated that PCE was detected in sample KB-VP2 at a concentration of 560 µg/m³, which at the time exceeded the MTCA Method B Sub-Slab Soil Screening Level of 320 µg/m³. PCE did not exceed the Commercial Worker SL of 1,500 µg/m³, however, at the time no commercial worker values had been established.

TCE was detected in sample KB-VP2 at a concentration of 6.9 µg/m³, which is below the MTCA Method B Sub-Slab Soil Gas Screening Level of 11 µg/m³ and the Commercial Worker SL of 96 µg/m³.

Based on the findings of the Tier II VI Assessment described above, TRC performed indoor air sampling to assess indoor air in interior of the Key Bank building. The indoor air sampling was performed to determine if VI was occurring in the interior of the Key Bank building.

TRC collected one background air sample (KB-BA-1) from the exterior of the Key Bank building and two indoor air samples (KB-IA-1 and KB-IA-2) from the interior of the Key Bank building.

COCs were not detected in either the background air sample or the two indoor air samples at a concentration exceeding the laboratory reporting limit. The findings of the indoor air sampling indicate the VI is not occurring in the interior of the Key Bank building.

A summary of sub-slab soil gas results is provided in **Table 3**. A summary of indoor air sampling results is provided in **Table 4**. Indoor air and sub-slab soil gas sample locations are indicated on **Figure 1B**.

Copies of the original laboratory report for sub-slab soil gas and indoor air samples are included in **Attachment A**.

Conclusions

The following conclusions are supported by the findings of several phases of soil, groundwater, and soil vapor investigations, *in situ* groundwater treatments, and ongoing groundwater monitoring:

- Given the current zoning and land uses as a commercial property, sub-slab screening levels for commercial works remain appropriate for the Site.
- VI pathways were effectively studied in March 2016. This study was conducted when plume concentrations for PCE and TCE are significantly higher than current concentrations. VI sampling results were all below current exposure risks for PCE and TCE in commercial use scenarios.
- VI pathways near the Key Bank were effectively studied in January and March 2020. The indoor air study did not detect any cVOCs in indoor air samples.
- VI assessments performed at the Site are in compliance and protective of current cleanup standards and short-term TCE risks given current land uses.
- Recent data indicates slight increases in the number of wells containing TCE, attributed to the active breakdown of PCE. However, average TCE concentrations remain similar to 2016 concentrations. We do not believe an additional VI assessment is necessary at this time, but we request Ecology to review the current groundwater data and provide their opinion.
- Skotdal will be preparing full MTCA-compliant Remedial Investigation and Feasibility Study (RI/FS) documents in 2026 in support of regulatory opinion.
- Skotdal is also aware that if land use changes, additional VI work may be necessary to comply with regulations.

The opinions presented herein are based on the currently obtainable information and are subject to change if additional information is provided.

Sincerely,

For:

Austin York, L.G.
Project Geologist

Eric Koltes, L.G.
Principal Geologist

Cc: Craig Skotdal, craig@skotdal.com
Dave Graef, dave.graef@skotdal.com

Enclosures

Tables

Table 1 - Groundwater Analytical Data (µg/L)
Table 2 - Sub Slab Vapor Intrusion Analytical Results (2016)
Table 3 - Sub-Slab Soil Gas Analytical Results (2020)
Table 4 - Indoor Air Analytical Results (2020)

Figures

Figure 1A – Sitewide Groundwater Analytical Results for Historical Concentrations of PCE
Figure 1B - Sitewide Groundwater Analytical Results for PCE (January 2025)

Attachments

Attachment A – Sub-Slab and Air Data Analytical Reports
Attachment B – AGI Soil Gas Survey Report

Tables

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
MW-1	2/9/2016	6.68	**8.9**	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	8.96	**4.7**	<1	<1	<1	<0.2	--	--	--	--	--
	8/30/2016	11.17	**18**	<1	<1	<1	<0.2	--	--	--	--	--
	12/1/2016	6.32	**11**	<1	<1	<1	<0.2	--	--	--	--	--
	2/21/2017	6.18	**1.4**	<1	<1	<1	<0.2	--	--	--	--	--
	5/25/2017	7.73	**2.4**	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	10.54	**14**	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	10.25	**19**	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2018	6.06	**6.3**	<1	<1	<1	<0.2	--	--	--	--	--
	5/16/2018	7.71	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/22/2018	10.21	**7.0**	<1	<1	<1	<0.2	--	--	--	--	--
	12/5/2019	8.99	**1.4**	<1	<1	<1	<0.2	--	--	--	--	--
	12/16/2020	8.28	<1	<1	<1	<1	<0.2	--	--	--	--	--
	1/20/2022 lc	6.85	<1	<0.5	<1	<1	**0.018**	--	--	--	--	--
	7/20/2022	9.02	--	--	--	--	--	--	--	--	--	--
	10/19/2022	13.62	--	--	--	--	**--**	--	--	--	--	--
	1/25/2023	6.83	<1	<0.5	<1	<0.2	<0.02	--	--	--	--	--
	10/16/2023	10.46	--	--	--	--	--	--	--	--	--	--
	2/28/2024	7.66	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	1/15/2025	7.16	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
MW-2	2/9/2016	7.67	<1	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	11.02	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/29/2016	13.31	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/2/2016	7.12	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2017	6.89	<1	<1	<1	<1	<0.2	--	--	--	--	--
	5/30/2017	9.39	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	12.65	<1	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	11.44	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/19/2018	7.26	<1	<1	<1	<1	<0.2	**--**	--	--	--	--
	5/15/2018	9.73	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/22/2018	12.62	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/3/2019	11.24	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/15/2020	10.68	<1	<1	<1	<1	<0.2	--	--	--	--	--
	1/20/2022 lc	7.44	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/20/2022	NA	--	--	--	--	--	--	--	--	--	--
	10/19/2022	NA	--	--	--	--	--	--	--	--	--	--
	1/25/2023	NA	--	--	--	--	--	--	--	--	--	--
	10/16/2023	NA	--	--	--	--	--	--	--	--	--	--
	2/28/2024	9.58	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	1/16/2025	9.22	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
MW-3	2/9/2016	4.49	**12**	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	8.35	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/29/2016	10.82	<5	<5	<5	<5	<0.2 j	--	--	--	--	--
	12/2/2016	4.72	**2.0**	<1	<1	<1	<0.2	--	--	--	--	--
	2/21/2017	4.09	**4.2**	<1	**3.3**	<1	<0.2	--	--	--	--	--
	5/30/2017	6.37	**2.1**	<1	**9.4**	<1	<0.2	--	--	--	--	--
	8/8/2017	10.13	<1	<1	**16**	<1	<0.2	--	--	--	--	--
	11/21/2017	9.68	<1	<1	**5.6**	<1	<0.2	--	--	--	--	--
	2/21/2018	3.89	<1	<1	**6.9**	<1	<0.2	--	--	--	--	--
	5/16/2018	6.02	<1	<1	**7.4**	<1	<0.2	--	--	--	--	--
	8/22/2018	9.30	<1	<1	**7.8**	<1	<0.2	--	--	--	--	--
	12/4/2019	7.91	<1	<1	**3.4**	<1	<0.2	--	--	--	--	--
	12/15/2020	4.96	<1	<1	**1.5**	<1	<0.2	--	--	--	--	--
	1/20/2022	3.45	**3.4**	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/20/2022	7.92	--	--	**--**	--	--	--	--	--	--	--
	10/19/2022	10.90	**--**	--	--	--	--	--	--	--	--	--
	1/25/2023	4.87	**4.4**	<0.5	<1	<0.2	<0.02	--	--	--	--	--
	10/16/2023	NA	--	--	--	--	--	--	--	--	--	--
	2/28/2024	5.69	**3.3**	<0.5	<1	<1	<0.02	--	--	--	--	--
	1/15/2025	5.59	**6.1**	<0.5	<1	<1	<0.02	--	--	--	--	--

Table 1
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Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
MW-4	2/12/2016	4.54	**26**	**1.1**	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**28**	<1	<1	<1	<0.2
	5/20/2016	8.93	**5.6**	<1	**1.3**	<1	<0.2	**1.6**	<1	<1	<1	<0.2
	8/30/2016	10.29	--	--	--	--	--	<1	<1	**4.7**	<1	**0.45**
	2/21/2017	4.58	--	--	--	--	--	**1.1**	<1	**22**	<1	**2.3**
	5/25/2017	5.98	--	--	--	--	--	<1	<1	**9.8**	<1	**2.1**
	8/8/2017	8.24	--	--	--	--	--	<1	<1	**6.2**	<1	**0.51**
	11/21/2017	8.17	--	--	--	--	--	<1	<1	**2.2**	<1	**0.24**
	2/19/2018	3.24	--	--	--	--	--	<1	<1	**1.4**	<1	<0.2
	5/15/2018	5.8	--	--	--	--	--	<1	**1.1**	**3.7**	<1	**0.45**
	8/22/2018	8.84	--	--	--	--	--	<1	<1	**2.6**	<1	**0.2**
	12/3/2019	7.69	--	--	--	--	--	<1	<1	**1.5**	<1	**0.36**
	12/15/2020	6.93	--	--	--	--	--	<1	<1	**2.0**	<1	**0.78**
	1/19/2022	3.6	--	--	--	--	--	<1	3.8	**4.9**	<1	**0.51**
	7/20/2022	7.44	--	--	--	--	--	--	--	**--**	--	--
	10/19/2022	10.58	--	--	--	--	--	--	**--**	**--**	--	--
	1/24/2023	4.79	--	--	--	--	--	**1.3**	**8.0**	**5.0**	<0.2	**0.78**
	10/16/2023	9.35	--	--	--	--	--	--	--	--	--	--
	2/26/2024	5.77	--	--	--	--	--	<1	**1.8**	**6.8**	<1	**1.1**
	1/14/2025	5.34	--	--	--	--	--	<1	**5.5**	**6.1**	<1	**0.76**
MW-6	2/11/2016	13.39	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/19/2016	14.63	<1	<1	<1	<1	<0.2	<1	<1	<1	<1	<0.2
	8/30/2016	16.21	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/2/2016	13.71	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/21/2017	13.18	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/25/2017	13.32	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/8/2017	NM	--	--	--	--	--	<1	<1	<1	<1	<0.2
	11/21/2017	16.42	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/19/2018	13.14	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/15/2018	13.48	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/21/2018	15.44	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/3/2019	15.03	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/15/2020	14.54	--	--	--	--	--	<1	<1	<1	<1	<0.2
	1/19/2022	13.01	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/20/2022	14.38	--	--	--	--	--	--	--	--	--	--
	10/19/2022	16.65	--	--	--	--	--	--	--	--	--	--
	1/24/2023	14.05	--	--	--	--	--	<1	<0.5	<1	<0.2	<0.02
	10/16/2023	16.54	--	--	--	--	--	--	--	--	--	--
	2/27/2024	13.94	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	1/14/2025	13.81	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
MW-7	2/9/2016	9.82	**4.8**	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	11.07	**25**	<1	<1	<1	<0.2	--	--	--	--	--
	8/30/2016	13.46	**16**	<1	<1	<1	<0.2	--	--	--	--	--
	12/1/2016	9.67	**4.5**	<1	<1	<1	<0.2	--	--	--	--	--
	2/21/2017	9.77	**8.0**	<1	<1	<1	<0.2	--	--	--	--	--
	5/25/2017	10.36	**11**	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	12.17	**15**	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	12.07	**20**	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2018	9.4	**1.3**	<1	<1	<1	<0.2	--	--	--	--	--
	5/16/2018	10.15	**9.7**	<1	<1	<1	<0.2	--	--	--	--	--
	8/23/2018	11.84	**19**	<1	<1	<1	<0.2	--	--	--	--	--
	12/5/2019	11.08	**21**	<1	<1	<1	<0.2	--	--	--	--	--
	12/16/2020	10.73	**13**	<1	<1	<1	<0.2	--	--	--	--	--
	1/21/2022 lc	9.65	**1.6**	<0.5	<1	<1	<0.02	--	--	--	--	--
	4/21/2022	10.52	**9.3**	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/21/2022	11.02	**7.2**	<0.5	<1	<1	<0.02	--	--	--	--	--
	10/21/2022	14.02	**7.6**	<0.5	<1	<1	<0.02	--	--	--	--	--
	1/25/2023	9.95	**2.8**	<0.5	<1	<0.2	<0.02	--	--	--	--	--
	1/25/2023 DUP-1		**2.3**	<0.5	<1	<0.2	<0.02	--	--	--	--	--
	4/28/2023	10.55	**10**	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/24/2023	11.95	**13**	**0.56**	<1	<1	<0.02	--	--	--	--	--
	10/17/2023	12.26	**14**	**0.59**	<1	<1	<0.02	--	--	--	--	--
	2/28/2024	10.32	**9.6**	<0.5	<1	<1	<0.02	--	--	--	--	--
	4/30/2024	10.62	**8.8**	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/26/2024	11.39	**11**	<0.5	<1	<1	<0.02	--	--	--	--	--
	10/23/2024	12.49	**8.30**	<0.5	<1	<1	<0.02	--	--	--	--	--
	1/15/2025	10.21	**9**	<0.5	<1	<1	<0.02	--	--	--	--	--

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
MW-8	2/9/2016	9.45	<1	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	11.03	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/29/2016	12.89	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/2/2016	9.54	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/21/2017	9.50	<1	<1	<1	<1	<0.2	--	--	--	--	--
	5/24/2017	10.21	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	12.29	<1	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	11.71	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2018	9.03	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/15/2018	10.09	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/22/2018	12.11	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/4/2019	11.13	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/15/2020	10.72	<1	<1	<1	<1	<0.2	--	--	--	--	--
	1/20/2022 lc	8.71	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/20/2022	10.98	--	--	--	--	--	--	--	--	--	--
	10/19/2022	13.55	--	--	--	--	--	--	--	--	--	--
	1/25/2023	9.50	<1	<0.5	<1	<0.2	<0.02	--	--	--	--	--
	10/16/2023	12.65	--	--	--	--	--	--	--	--	--	--
	2/28/2024	10.02	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	1/15/2025	9.71	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
MW-9	2/9/2016	6.00	**7.9**	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	9.27	**6.5**	<1	<1	<1	<0.2	--	--	--	--	--
	8/29/2016	11.78	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/2/2016	6.43	**9.0**	<1	<1	<1	<0.2	--	--	--	--	--
	2/21/2017	6.06	**8.0**	<1	<1	<1	<0.2	--	--	--	--	--
	5/25/2017	7.71	**5.4**	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	NM	<1	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	10.67	**1.3**	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2018	5.39	**7**	<1	<1	<1	<0.2	--	--	--	--	--
	5/15/2018	7.53	**5.7**	<1	<1	<1	<0.2	--	--	--	--	--
	8/22/2018	10.85	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/4/2019	9.44	**5.8**	<1	<1	<1	<0.2	--	--	--	--	--
	12/15/2020	8.79	**5.7**	<1	<1	<1	<0.2	--	--	--	--	--
	1/21/2022 lc	5.18	**5.5**	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/20/2022	9.27	--	--	--	--	--	--	--	--	--	--
	10/19/2022	12.53	--	--	--	--	--	--	--	--	--	--
	1/25/2023	6.52	**6.0**	<0.5	<1	<0.2	<0.02	--	--	--	--	--
	10/16/2023	11.59	--	--	--	--	--	--	--	--	--	--
	2/28/2024	7.49	**6.1**	**0.64**	**1.8**	<1	<0.02	--	--	--	--	--
	1/16/2025	7.1	**6.2**	<0.5	<1	<1	<0.02	--	--	--	--	--
MW-10	2/12/2016	4.02	**38**	**2.7**	**2.4**	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**38**	**1.8**	**1.5**	<1	<0.2
	5/19/2016	7.56	**7.0**	**73**	**5.5**	<1	<0.2	**10**	**12**	<1	<1	<0.2
	8/30/2016	10.08	--	--	--	--	--	**99 (97)**	**170 ve (170)**	**95 (97)**	**1.1** (<10)	<0.2 (<2)
	12/2/2016	4.19	--	--	--	--	--	**75**	**85**	**62**	<1	**6.4**
	2/21/2017	3.74	--	--	--	--	--	**5.2**	**1.2**	**15**	<1	**1.1**
	5/25/2017	5.80	--	--	--	--	--	**2.0**	**1.3**	**16**	<1	**3.2**
	8/8/2017	9.41	--	--	--	--	--	**22**	**60**	**19**	<1	**1.3**
	11/21/2017	9.03	--	--	--	--	--	**270**	**110**	**54**	<1	**6.4**
	2/19/2018	3.53	--	--	--	--	--	**33**	**20**	**14**	<1	**1.8**
	5/15/2018	5.65	--	--	--	--	--	**39**	**28**	**17**	<1	**1.9**
	8/22/2018	9.23	--	--	--	--	--	**23**	**11**	**9.1**	<1	**1.5**
	12/3/2019	7.75	--	--	--	--	--	**54**	**19**	**6.7**	<1	**0.21**
	12/15/2020	7.07	--	--	--	--	--	**75**	**39**	**14**	<1	**1.1**
	10/18/2021	9.78	--	--	--	--	--	**44**	**15**	**8**	<1	**0.52**
	1/19/2022	3.3	--	--	--	--	--	**9.1**	**17**	**14**	<1	**2.6**
	4/21/2022	6.15	--	--	--	--	--	**8.5**	**9.5**	**14**	<1	**1**
	7/20/2022	7.61	--	--	--	--	--	**11**	**13**	**17**	<1	**1.20**
	10/19/2022	10.77	--	--	--	--	--	**36**	**9.4**	**13**	<1	**1.80**
	1/24/2023	4.66	--	--	--	--	--	**16**	**7.2**	**6.6**	<0.2	**0.67**
	4/28/2023	6.33	--	--	--	--	--	**21**	**15**	**11**	<1	**0.91**
	7/24/2023	9.24	--	--	--	--	--	**120**	**73**	**120**	<1	**3.8**
	10/17/2023	9.70	--	--	--	--	--	**43**	**9.3**	**5.5**	<1	**0.18**
	2/26/2024	5.81	--	--	--	--	--	**25**	**15**	**11**	<1	**0.91**
	5/10/2024	6.8	**7.4**	**4.4**	**5.9**	<1	**0.45**	--	--	--	--	--
	7/25/2024	8.36	**10.0**	**4.8**	**9.0**	<1	**0.74**	--	--	--	--	--
	10/22/2024	9.93	--	--	--	--	--	**78**	**81**	**170**	1.1	**21**
	1/14/2025	5.28	--	--	--	--	--	**16**	**17**	**22**	<1	**2.2**

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
MW-11	2/12/2016	5.23	**48**	**2.5**	**1.2**	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**57**	**2.2**	**1.1**	<1	<0.2
	5/19/2016	7.55	**62**	**2.8**	**1.0**	<1	<0.2	**36**	**2.4**	**<1**	<1	<0.2
	8/30/2016	10.28	<1	<1	**30**	<1	**0.7**	<1	<1	**32**	<1	**1.1**
	12/2/2016	5.56	--	--	--	--	--	<1	**1.1**	**59**	<1	**5.7**
	2/21/2017	5.03	--	--	--	--	--	**2.7**	**8.0**	**25**	<1	**7.4**
	5/25/2017	6.36	--	--	--	--	--	<1	<1	**26**	<1	**4.1**
	8/8/2017	9.13	--	--	--	--	--	<1	<1	**3.6**	<1	**1.7**
	11/21/2017	NA	--	--	--	--	--	--	--	--	--	--
	2/19/2018	3.52	--	--	--	--	--	**1.6**	**1.2**	**1.3**	<1	**0.22**
	5/16/2018	5.81	<1	**9.5**	**13**	<1	**2.4**	--	--	--	--	--
	8/21/2018	8.40	--	--	--	--	--	<1	<1	**8.2**	<1	**1.3**
	12/3/2019	7.34	--	--	--	--	--	<1	**14**	**23**	<1	**3.6**
	12/15/2020	6.91	--	--	--	--	--	**8.4**	**19**	**11**	<1	**1.4**
	10/18/2021	8.89	--	--	--	--	--	<1	<0.5	**6.3**	<1	**3.8**
	1/19/2022	4.22	--	--	--	--	--	**10**	**8.1**	**3.4**	<1	**0.56**
	4/21/2022	6.16	--	--	--	--	--	**11**	**9.6**	**4.1**	<1	**0.4**
	7/20/2022	7.22	--	--	--	--	--	**13**	**11**	**7.1**	<1	**0.64**
	10/19/2022	9.9	--	--	--	--	--	<1	<0.5	**4.7**	<1	**3.5**
	1/24/2023	5.22	--	--	--	--	--	**11**	**9.1**	**6.0**	<0.02	**0.96**
	4/28/2023	6.37	--	--	--	--	--	**11**	**8.5**	**11**	<1	**0.64**
	7/24/2023	8.59	--	--	--	--	--	**1.0**	**1.7**	**6.9**	<1	**2.0**
	10/17/2023	8.98	--	--	--	--	--	<1	**0.76**	**6.8**	<1	**4.1**
	2/26/2024	5.75	--	--	--	--	--	**16**	**12**	**4.8**	<1	**0.36**
	5/10/2024	6.65	**11**	**9.4**	**6.4**	<1	**0.78**	--	--	--	--	--
	7/25/2024	7.75	<1	**1.8**	**6.7**	<1	**0.94**	--	--	--	--	--
	10/22/2024	9.11	--	--	--	--	--	<1	**0.5**	**5.1**	<1	**3.1**
	1/14/2025	5.58	--	--	--	--	--	**15**	**14**	**9.9**	<1	**1**
MW-12	2/12/2016	9.67	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/19/2016	11.09	**1.7**	<1	<1	<1	<0.2	**1.7**	<1	<1	<1	<0.2
	8/30/2016	13.34	--	--	--	--	--	**3.5**	<1	<1	<1	<0.2
	12/2/2016	9.51	--	--	--	--	--	**2.8**	<1	<1	<1	<0.2
	2/21/2017	9.46	--	--	--	--	--	**1.2**	<1	<1	<1	<0.2
	5/25/2017	10.05	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/8/2017	15.55	--	--	--	--	--	**2.5**	<1	<1	<1	<0.2
	11/21/2017	12.36	--	--	--	--	--	**3.8**	<1	<1	<1	<0.2
	2/19/2018	9.61	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/15/2018	10.05	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/21/2018	12.20	--	--	--	--	--	**2.4**	<1	<1	<1	<0.2
	12/3/2019	11.26	--	--	--	--	--	**4.1**	<1	<1	<1	<0.2
	12/15/2020	10.78	--	--	--	--	--	**3.0**	<1	<1	<1	<0.2
	1/19/2022	9.7	--	--	--	--	--	**1.1**	<0.5	<1	<1	<0.02
	7/20/2022	11.15	--	--	--	--	--	**--**	--	--	--	--
	10/20/2022	13.81	--	--	--	--	--	**5.6**	**7.7**	**9.8**	<1	**0.38**
	1/24/2023	9.82	--	--	--	--	--	**1.8**	<0.5	<1	<0.2	<0.02
	10/16/2023	13.11	--	--	--	--	--	--	--	--	--	--
	2/27/2024	9.99	--	--	--	--	--	**1.2**	<0.5	<1	<1	<0.02
	1/14/2025	9.97	--	--	--	--	--	**1.4**	<0.5	<1	<1	<0.02
MW-13	2/11/2016	18.09	**3.2**	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**3.3**	<1	<1	<1	<0.2
	5/20/2016	18.92	**2.6**	<1	<1	<1	<0.2	**1.5**	<1	<1	<1	<0.2
	8/30/2016	19.85	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/2/2016	18.10	--	--	--	--	--	**2.3**	<1	<1	<1	<0.2
	2/21/2017	18.02	--	--	--	--	--	**3.0**	<1	<1	<1	<0.2
	5/25/2017	18.38	--	--	--	--	--	**3.0**	<1	<1	<1	<0.2
	8/8/2017	19.66	**2.5**	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	19.78	**2.4**	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2018	17.95	--	--	--	--	--	**4.2**	<1	<1	<1	<0.2
	5/15/2018	18.46	--	--	--	--	--	**2.9**	<1	<1	<1	<0.2
	8/22/2018	19.37	--	--	--	--	--	**3.3**	<1	<1	<1	<0.2
	12/3/2019	19.30	--	--	--	--	--	**4.6**	<1	<1	<1	<0.2
	12/16/2020	18.90	--	--	--	--	--	**4.5**	<1	<1	<1	<0.2
	1/19/2022 ca lc	17.74	--	--	--	--	--	**3.7**	<0.5	<1	<1	<0.02
	7/20/2022	18.93	--	--	--	--	--	--	--	--	--	--
	10/19/2022	20.00	--	--	--	--	--	--	--	--	--	--
	1/24/2023	18.5	--	--	--	--	--	**3.1**	<0.5	<1	<0.2	<0.02
	10/16/2023	20.00	--	--	--	--	--	--	--	--	--	--
	2/27/2024	18.59	--	--	--	--	--	**3.3**	<0.5	<1	<1	<0.02
	1/14/2025	18.05	--	--	--	--	--	**4.1**	<0.5	<1	<1	<0.02

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Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
MW-14	2/11/2016	11.29	<1	<1	<1	<1	<0.2	<1	<1	<1	<1	<0.2
	2/29/2016	NA	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/19/2016	11.95	<1	<1	<1	<1	<0.2	<1	<1	<1	<1	<0.2
	8/30/2016	13.34	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/2/2016	11.14	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/21/2017	11.24	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/25/2017	11.64	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/8/2017	12.78	--	--	--	--	--	<1	<1	<1	<1	<0.2
	11/21/2017	12.21	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/19/2018	11.02	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/15/2018	11.51	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/22/2018	12.61	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/3/2019	12.00	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/15/2020	11.73	--	--	--	--	--	<1	<1	<1	<1	<0.2
	1/20/2022	11	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/20/2022	11.94	--	--	--	--	--	--	--	--	--	--
	10/19/2022	13.92	--	--	--	--	--	--	--	--	--	--
	1/24/2023	11.3	--	--	--	--	--	<1	<0.5	<1	<0.2	<0.02
	10/16/2023	12.87	--	--	--	--	--	--	--	--	--	--
	2/26/2024	11.49	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	1/14/2025	11.34	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
MW-15	5/17/2016	8.42	**140**	**2.8**	**1.1**	<1	<0.2	--	--	--	--	--
	8/30/2016	10.42	**94**	**2.3**	**1.5**	<1	<0.2	--	--	--	--	--
	12/1/2016	6.48	**190 ve (180)**	**3.4**	**1.2**	<1	<0.2	--	--	--	--	--
	2/21/2017	6.36	**140**	**2.6**	<1	<1	<0.2	--	--	--	--	--
	5/25/2017	7.51	**120**	**2.7**	**1.1**	<1	<0.2	--	--	--	--	--
	8/8/2017	12.50	**120**	**3.0**	**1.8**	<1	<0.2	--	--	--	--	--
	11/21/2017	9.47	**96**	**2.6**	**2.4**	<1	<0.2	--	--	--	--	--
	2/21/2018	6.16	**140**	**2.7**	<1	<1	<0.2	--	--	--	--	--
	5/16/2018	7.34	**110**	**2.5**	**1.2**	<1	<0.2	--	--	--	--	--
	8/23/2018	9.50	**110**	**2.7**	**1.2**	<1	<0.2	--	--	--	--	--
	8/23/18 DUP-2		**110**	**2.6**	**1.2**	<1	<0.2	--	--	--	--	--
	2/7/2019	8.99	**130**	**2.4**	<1	<1	<0.2	--	--	--	--	--
	12/4/2019	8.43	**150 ve (140)**	**3.3**	**1.3**	<1	<0.2	--	--	--	--	--
	12/4/2019 DUP-1		**150 ve (140)**	**3.4**	**1.2**	<1	<0.2	--	--	--	--	--
	2/6/2020	6.87	**110**	**1.7**	<1	<1	<0.2	--	--	--	--	--
	10/16/2023	Decommisioned	--	--	--	--	--	--	--	--	--	--
MW-16	6/27/2017	14.45	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	15.72	<1	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	15.36	--	--	--	--	--	--	--	--	--	--
	12/2/2019	14.19	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/15/2020	13.61	--	--	--	--	--	<1	<1	<1	<1	<0.2
	1/20/2022	NA	--	--	--	--	--	--	--	--	--	--
	7/20/2022	NA	--	--	--	--	--	--	--	--	--	--
	10/19/2022	NA	--	--	--	--	--	--	--	--	--	--
	1/25/2023	NA	--	--	--	--	--	--	--	--	--	--
	10/16/2023	NA	--	--	--	--	--	--	--	--	--	--
	2/28/2024	NA	--	--	--	--	--	--	--	--	--	--
	1/16/2025	12.05	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
MW-17	6/27/2017	22.15	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	18.54	<1	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	22.02	--	--	--	--	--	--	--	--	--	--
	2/19/2018	17.25	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/2/2019	19.30	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/15/2020	18.54	--	--	--	--	--	<1	<1	<1	<1	<0.2
	1/19/2022	16.58	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/20/2022	17.59	--	--	--	--	--	--	--	--	--	--
	10/19/2022	20.50	--	--	--	--	--	--	--	--	--	--
	1/24/2023	18.93	--	--	--	--	--	<1	<0.5	<1	<0.2	<0.02
	10/16/2023	20.12	--	--	--	--	--	--	--	--	--	--
	2/26/2024	18.27	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/22/2024	19.98	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	1/14/2025	18.31	--	--	--	--	--	<1	<0.5	<1	<1	<0.02

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
MW-18	6/27/2017	20.25	<1	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	19.20	<1	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	22.03	--	--	--	--	--	--	--	--	--	--
	2/19/2018	19.58	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/2/2019	21.24	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/15/2020	20.49	--	--	--	--	--	<1	<1	<1	<1	<0.2
	1/19/2022	18.59	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/20/2022	18.31	--	--	--	--	--	--	--	--	--	--
	10/19/2022	20.97	--	--	--	--	--	--	--	--	--	--
	1/24/2023	21.75	--	--	--	--	--	<1	<0.5	<1	<0.2	<0.02
	10/16/2023	21.89	--	--	--	--	--	--	--	--	--	--
	2/26/2024	20.20	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	1/14/2025	20.89	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
MW-19	2/6/2020	6.99	**84**	**1.5**	<1	<1	<0.2	--	--	--	--	--
	12/16/2020	9.69	**93**	**2.6**	**1.4**	<1	<0.2	--	--	--	--	--
	10/18/2021	11.39	--	--	--	--	--	**65**	**2**	<1	<1	<0.02
	1/19/2022	8.59	--	--	--	--	--	<1	**1.0**	**3.8**	<1	**3.7**
	4/21/2022	9.64	**16**	**5.9**	**8.6**	<1	**1.5**	--	--	--	--	--
	7/21/2022	10.32	**24**	**6.2**	**11**	<1	**2**	--	--	--	--	--
	10/21/2022	12.67	**8**	**7.7**	**21**	<1	**5**	--	--	--	--	--
	1/24/2023	8.69	--	--	--	--	--	**2.3**	**25**	**21**	<0.2	**3.2**
	4/28/2023	9.46	<1	**12**	**48**	<1	**6.1**	--	--	--	--	--
	4/28/2023 DUP-1		<1	**10**	**48**	<1	**6.3**	--	--	--	--	--
	7/25/2023	11.49	**6.1**	**3.0**	**34**	<1	**8.2**	--	--	--	--	--
	7/25/2023 DUP-1		**6.9**	**3.2**	**34**	<1	**8.3**	--	--	--	--	--
	10/17/2023	11.49	**8.5**	**5.5**	**24**	<1	**5.8**	--	--	--	--	--
	2/26/2024	9.34	--	--	--	--	--	**2.6**	**9**	**32**	<1	**7.2**
	4/30/2024	9.75	--	--	--	--	--	<1	**4.5**	**33**	<1	**7.2**
	7/24/2024	10.55	--	--	--	--	--	**20**	**5.9**	**8.4**	<1	**1**
	10/23/2024	11.78	**9.6**	**8.6**	**20**	<1	**4.9**	--	--	--	--	--
	1/14/2025	9.04	**--**	**--**	**--**	--	**--**	<1	**17**	**38**	<1	**5.3**
MW-20	2/6/2020	5.58	**56**	**2.8**	**4.0**	<1	<0.2	--	--	--	--	--
	12/16/2020	8.44	**56**	**5.9**	**7.3**	<1	**0.30**	--	--	--	--	--
	10/18/2021	10.04	**1.8**	**2.4**	**62**	<1	**4.2**	--	--	--	--	--
	1/19/2022	7.03	--	--	--	--	--	**5.4**	**7.2**	**24**	<1	**5.3**
	4/21/2022	8.14	--	--	--	--	--	**10**	**7.8**	**12**	<1	**1.6**
	7/20/2022	8.89	--	--	--	--	--	<1	**0.58**	**26**	<1	**3.1**
	10/20/2022	11.46	**17**	**16**	**17**	<1	**2.5**	--	--	--	--	--
	10/20/2022 DUP-1		**6**	**7**	**19**	<1	**4.6**	--	--	--	--	--
	1/24/2023	7.28	--	--	--	--	--	**19**	**17**	**12**	<0.2	**2.0**
	4/28/2023	8.02	--	--	--	--	--	<1	**12**	**25**	<1	**5.1**
	7/25/2023	10.08	**4.2**	**4.9**	**31**	<1	**4.1**	--	--	--	--	--
	10/17/2023	10.23	<1	**3.1**	**24**	<1	**5.6**	--	--	--	--	--
	10/17/2023 DUP-1		<1	**2.9**	**21**	<1	**4.7**	--	--	--	--	--
	2/26/2024	7.76	**10**	**15**	**18**	<1	**4.5**	--	--	--	--	--
	5/10/2024	8.29	**5.7**	**8.0**	**19**	<1	**3.8**	--	--	--	--	--
	7/25/2024	9.08	**1.1**	**4.2**	**23**	<1	**6.3**	--	--	--	--	--
	10/23/2024	10.65	**5.1**	**8.9**	**20**	<1	**4.8**	--	--	--	--	--
	1/14/2025	7.51	**--**	**--**	**--**	--	**--**	**60**	**24**	**15**	<1	**2.1**
MW-21	4/22/2020	9.00	<1	<1	<1	<1	<0.2	--	--	--	--	--
	12/16/2020	8.84	<1	<1	<1	<1	<0.2	--	--	--	--	--
	1/20/2022 ca lc	7.76	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/20/2022	9.56	--	--	--	--	--	--	--	--	--	--
	10/19/2022	10.95	--	--	--	--	--	--	--	--	--	--
	1/24/2023	7.92	--	--	--	--	--	<1	<0.5	<1	<0.2	**0.021**
	10/16/2023	9.88	--	--	--	--	--	--	--	--	--	--
	2/27/2024	8.38	--	--	--	--	--	<1	<0.5	<1	<0.2	**0.026**
	1/14/2025	8.31	--	--	--	--	--	<1	<0.5	**1.4**	<1	**0.025**
MW-22	4/22/2020	9.59	**26**	**1.3**	**1.1**	<1	<0.2	--	--	--	--	--
	12/16/2020	9.45	**25**	**1.1**	<1	<1	<0.2	--	--	--	--	--
	1/21/2022	8.64	--	--	--	--	--	**26**	**0.56**	<1	<1	<0.02
	4/21/2022	9.29	--	--	--	--	--	**7.3**	<0.5	<1	<1	<0.02
	7/20/2022	9.63	--	--	--	--	--	**7.9**	<0.5	2.4	<1	**0.2**
	10/19/2022	11.73	--	--	--	--	--	--	--	--	--	--
	1/24/2023	8.93	--	--	--	--	--	**7.4**	**3.5**	**2.9**	<0.2	**0.085**
	4/28/2023	9.30	--	--	--	--	--	**6.3**	**1.1**	**1.2**	<1	<0.02
	7/25/2023	11.02	**9.7**	**2.6**	**5.3**	<1	**0.16**	--	--	--	--	--
	10/16/2023	10.49	--	--	--	--	--	**12**	**3.2**	**9.5**	<1	**0.56**
	2/26/2024	9.11	--	--	--	--	--	**1.3**	**3.0**	**8.9**	<1	**0.025**
	4/30/2024	9.40	--	--	--	--	--	**4.0**	**1.2**	**2.0**	<1	**<0.02**
	7/24/2024	9.83	--	--	--	--	--	**5.6**	**2.7**	**4.6**	<1	<0.02
	10/22/2024	10.72	--	--	--	--	--	**5**	**3.9**	**5.9**	<1	**0.054**
	1/14/2025	9.04	--	--	--	--	--	**7.7**	**2**	**3.9**	<1	<0.02
MW-23	4/22/2020	8.63	**23**	**5.5**	**3.8**	<1	<0.2	--	--	--	--	--
	12/16/2020	8.54	**26**	**5.4**	**3.3**	<1	<0.2	--	--	--	--	--
	10/18/2021	9.86	--	--	--	--	--	**3.3**	<0.5	**37**	<1	**0.98**
	1/19/2022 lc	6.42	--	--	--	--	--	**1.9**	**6.7**	**9.2**	<1	**0.41**
	4/21/2022	8.00	**13**	**2.3**	**1.7**	<1	0.1	--	--	--	--	--
	7/21/2022	8.75	**10**	**2.6**	**3.8**	<1	**1.4**	--	--	--	--	--
	10/20/2022	11.24	--	--	--	--	--	<1	**3.7**	**12.0**	<1	**5.1**
	1/24/2023	7.38	--	--	--	--	--	**4.5**	**6.9**	**9.7**	<0.2	**2.6**
	4/28/2023	8.20	--	--	--	--	--	**9.8**	**27**	**29**	<1	**4.0**
	7/24/2023	9.86	--	--	--	--	--	**2.3**	**8.4**	**13**	<1	**1.7**
	10/16/2023	10.14	--	--	--	--	--	<1	**6.8**	**17**	<1	**2.3**
	2/26/2024	7.88	--	--	--	--	--	**3.8**	**24**	**27**	<1	**6.7**
	4/30/2024	8.40	--	--	--	--	--	<1	**21**	**38**	<1	**5.0**
	7/24/2024	9.13	--	**--**	**--**	--	**--**	<1	**3.6**	**47**	<1	**5.1**
	10/22/2024	10.25	--	**--**	**--**	--	**--**	**4.3**	**5.4**	**6**	<1	**0.19**
	1/14/2025	7.64	--	**--**	**--**	--	**--**	**11**	**18**	**31**	<1	**3.7**

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
GW-1	2/10/2016	1.64	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/18/2016	2.46	<1	<1	<1	<1	<0.2	<1	<1	<1	<1	<0.2
	8/30/2016	2.71	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/2/2016	2.08	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/21/2017	1.31	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/26/2017	1.30	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/8/2017	2.83	--	--	--	--	--	<1	<1	<1	<1	<0.2
	11/21/2017	1.64	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/16/2018	1.40	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/14/2018	1.91	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/22/2018	2.85	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/3/2019	2.09	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/15/2020	1.83	--	--	--	--	--	<1	<1	<1	<1	<0.2
	1/19/2022	1.32	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/20/2022	1.72	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/20/2022	3.82	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/19/2022	3.27	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	1/23/2023	1.49	--	--	--	--	--	<1	<0.5	<1	<0.2	<0.02
	4/27/2023	1.92	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/24/2023	2.96	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/16/2023	2.55	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	2/27/2024	1.61	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/30/2024	1.85	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/25/2024	4.19	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/22/2024	2.42	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	1/14/2025	1.22	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
GW-3	2/10/2016	3.13	**1.6**	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/18/2016	3.15	**2.0**	<1	<1	<1	<0.2	**1.6**	<1	<1	<1	<0.2
	8/30/2016	3.34	--	--	--	--	--	**2.4**	<1	<1	<1	<0.2
	12/2/2016	2.93	--	--	--	--	--	**1.2**	<1	<1	<1	<0.2
	2/21/2017	3.02	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/26/2017	3.17	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/8/2017	3.41	--	--	--	--	--	**2.9**	<1	<1	<1	<0.2
	11/21/2017	2.91	--	--	--	--	--	**1.3**	<1	<1	<1	<0.2
	2/16/2018	3.02	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/14/2018	3.12	--	--	--	--	--	**1.1**	<1	<1	<1	<0.2
	8/22/2018	3.22	--	--	--	--	--	**3.2**	<1	<1	<1	<0.2
	12/3/2019	3.05	--	--	--	--	--	**2.5**	<1	<1	<1	<0.2
	12/14/2020	2.88	--	--	--	--	--	**1.7**	<1	<1	<1	<0.2
	1/19/2022	2.82	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/21/2022	2.75	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/20/2022	3.50	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/19/2022	3.59	--	--	--	--	--	**2.2**	<0.5	<1	<1	<0.02
	1/23/2023	4.87						<1	<0.5	<1	<0.2	<0.02
	4/27/2023	2.74	--	--	--	--	--	**1.0**	<0.5	<1	<1	<0.02
	7/24/2023	3.15	--	--	--	--	--	**2.4**	<0.5	<1	<1	<0.02
	10/16/2023	2.84	--	--	--	--	--	**1.8**	<0.5	<1	<1	<0.02
	2/27/2024	2.60	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/30/2024	2.77	--	--	--	--	--	**1.1**	<0.5	<1	<1	<0.02
	7/25/2024	3.02	--	--	--	--	--	**1.6**	**0.57**	<1	<1	<0.02
	10/22/2024	2.77	--	--	--	--	--	**1.1**	**1.1**	<1	<1	<0.02
	1/14/2025	2.64	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
GW-4	2/10/2016	2.78	**4.8**	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	3.40	**9.6**	<1	<1	<1	<0.2	--	--	--	--	--
	8/29/2016	3.39	**11**	<1	<1	<1	<0.2	--	--	--	--	--
	12/2/2016	3.28	**5.7**	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2017	2.86	**4.5**	<1	<1	<1	<0.2	--	--	--	--	--
	5/26/2017	3.08	**4.1**	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	3.40	**10**	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	2.85	**6.8**	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2018	2.95	**3.5**	<1	<1	<1	<0.2	--	--	--	--	--
	5/16/2018	3.14	**5.0**	<1	<1	<1	<0.2	--	--	--	--	--
	8/23/2018	3.27	**10**	<1	<1	<1	<0.2	--	--	--	--	--
	12/3/2019	3.06	**5.5**	<1	<1	<1	<0.2	--	--	--	--	--
	12/16/2020	2.83	**3.6**	<1	<1	<1	<0.2	--	--	--	--	--
	1/19/2022	2.79	**2.6**	**0.51**	<1	<1	<0.02	--	--	--	--	--
	1/19/2022 DUP-01 lc	2.79	**2.4**	<0.5	<1	<1	<0.02	--	--	--	--	--
	4/20/2022	2.73	**3.3**	**0.51**	<1	<1	<0.02	--	--	--	--	--
	7/21/2022	2.71	**4.3**	**0.93**	<1	<1	<0.02	--	--	--	--	--
	10/20/2022	3.37	**3.7**	**0.80**	<1	<1	<0.02	--	--	--	--	--
	1/25/2023	2.66	**3.0**	**0.54**	<1	<0.2	<0.02	--	--	--	--	--
	4/27/2023	2.76	**3.9**	**0.58**	<1	<1	<0.02	--	--	--	--	--
	7/24/2023	3.01	**4.4**	**1.6**	<1	<1	<0.02	--	--	--	--	--
	10/16/2023	2.92	**3.2**	**1.6**	**1.2**	<1	<0.02	--	--	--	--	--
	2/27/2024	2.59	**2.6**	**0.66**	<1	<1	<0.02	--	--	--	--	--
	4/30/2024	2.80	**3.2**	**0.61**	<1	<1	<0.02	--	--	--	--	--
	7/25/2024	2.99	**3.0**	**1.9**	**2.6**	<1	**0.027**	--	--	--	--	--
	10/22/2024	2.81	**4.8**	**1.1**	**2.4**	<1	**0.029**	--	--	--	--	--
	1/14/2025	2.64	**--**	**--**	**--**	--	**--**	<1	**0.81**	**1.4**	<1	<0.02

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
GW-5	2/10/2016	4.60	**2.5**	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**2.5**	<1	<1	<1	<0.2
	5/18/2016	5.04	**3.1**	<1	<1	<1	<0.2	**1.8**	<1	<1	<1	<0.2
	8/30/2016	5.42	--	--	--	--	--	**2.9**	<1	<1	<1	<0.2
	12/2/2016	4.07	--	--	--	--	--	**3.9**	<1	<1	<1	<0.2
	2/21/2017	4.19	--	--	--	--	--	**2.5**	<1	<1	<1	<0.2
	5/26/2017	4.76	--	--	--	--	--	**2.3**	<1	<1	<1	<0.2
	8/8/2017	5.44	--	--	--	--	--	**3.2**	<1	<1	<1	<0.2
	11/21/2017	NA	--	--	--	--	--	--	--	--	--	--
	2/19/2018	4.38	--	--	--	--	--	**2.7**	<1	<1	<1	<0.2
	5/15/2018	4.76	--	--	--	--	--	**1.9**	<1	<1	<1	<0.2
	8/22/2018	5.15	--	--	--	--	--	**3.9**	<1	<1	<1	<0.2
	12/3/2019	4.63	--	--	--	--	--	**2.6**	<1	<1	<1	<0.2
	12/14/2020	4.81	--	--	--	--	--	**2.7**	<1	<1	<1	<0.2
	1/19/2022	3.30	--	--	--	--	--	**2.2**	**0.62**	<1	<1	**0.04**
	4/21/2022	4.64	--	--	--	--	--	**1.5**	<0.5	<1	<1	<0.02
	7/20/2022	5.24	--	--	--	--	--	**1.9**	0.51	<1	<1	<0.02
	10/19/2022	6.05	--	--	--	--	--	**3**	**0.59**	<1	<1	**0.027**
	1/23/2023	3.54	--	--	--	--	--	**1.9**	<0.5	<1	<0.2	<0.02
	4/27/2023	4.40	--	--	--	--	--	**1.8**	<0.5	<1	<1	<0.02
	7/24/2023	5.66	--	--	--	--	--	**2.0**	**0.50**	<1	<1	**0.022**
	10/16/2023	4.84	--	--	--	--	--	**2.6**	**0.67**	**1.1**	<1	**0.066**
	2/27/2024	4.57	--	--	--	--	--	**2.1**	<0.5	<1	<1	<0.02
	4/30/2024	5.00	--	--	--	--	--	**1.8**	<0.5	<1	<1	**0.027**
	7/25/2024	5.46	--	--	--	--	--	**2.2**	**0.63**	**1.1**	<1	**0.051**
	10/22/2024	5.51	--	--	--	--	--	**2.8**	<0.5	<1	<1	<0.02
	1/14/2025	4.51	--	--	--	--	--	**2.3**	<0.5	<1	<1	<0.02
GW-6	2/10/2016	3.92	**6.4**	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**6.1**	<1	<1	<1	<0.2
	5/18/2016	4.08	**6.6**	<1	<1	<1	<0.2	**5.1**	<1	<1	<1	<0.2
	8/30/2016	4.21	**7.3**	<1	<1	<1	<0.2	**7.0**	<1	<1	<1	<0.2
	12/2/2016	3.66	--	--	--	--	--	**8.6**	<1	<1	<1	<0.2
	2/21/2017	3.67	--	--	--	--	--	**6.0**	<1	<1	<1	<0.2
	5/26/2017	3.95	--	--	--	--	--	**5.6**	<1	<1	<1	<0.2
	8/8/2017	4.25	--	--	--	--	--	**9.2**	<1	<1	<1	<0.2
	11/21/2017	NA	--	--	--	--	--	--	--	--	--	--
	2/19/2018	3.79	--	--	--	--	--	**5.8**	<1	<1	<1	<0.2
	5/15/2018	3.98	--	--	--	--	--	**4.7**	<1	<1	<1	<0.2
	8/1/2018	4.11	--	--	--	--	--	**8.3**	<1	<1	<1	<0.2
	12/3/2019	3.94	--	--	--	--	--	**6.0**	<1	<1	<1	<0.2
	12/14/2020	3.84	--	--	--	--	--	**5.0**	<1	<1	<1	<0.2
	10/18/2021	2.56	--	--	--	--	--	**6.2**	**0.56**	<1	<1	<0.02
	1/19/2022	3.71	--	--	--	--	--	**2.4**	<0.5	<1	<1	<0.02
	4/21/2022	3.71	--	--	--	--	--	**2.4**	<0.5	<1	<1	<0.02
	4/21/2022 DUP-1	3.71	--	--	--	--	--	**2.9**	<0.5	<1	<1	<0.02
	7/20/2022	3.47	--	--	--	--	--	**4.2**	<0.5	<1	<1	<0.02
	10/19/2022	4.28	--	--	--	--	--	**5.7**	**0.63**	<1	<1	<0.02
	1/23/2023	3.97	--	--	--	--	--	**3.5**	<0.5	<1	<0.2	<0.02
	4/27/2023	3.67	--	--	--	--	--	**3.5**	<0.5	<1	<1	<0.02
	7/24/2023	4.02	--	--	--	--	--	**5.2**	**0.62**	<1	<1	<0.02
	10/16/2023	3.89	--	--	--	--	--	**5.9**	**0.77**	<1	<1	<0.02
	2/27/2024	3.57	--	--	--	--	--	**3.3**	<0.5	<1	<1	<0.02
	4/30/2024	3.75	--	--	--	--	--	**2.9**	<0.5	<1	<1	<0.02
	7/25/2024	3.97	--	--	--	--	--	**4.3**	**0.72**	<1	<1	<0.02
	10/22/2024	3.78	--	--	--	--	--	**4.8**	**0.89**	**1.7**	<1	**0.02**
	1/14/2025	3.63	--	--	--	--	--	**3.1**	<0.5	<1	<1	<0.02
GW-7	2/11/2016	2.67	**1.2**	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/20/2016	3.99	**2.0**	<1	<1	<1	<0.2	**1.1**	<1	<1	<1	<0.2
	8/30/2016	4.56	--	--	--	--	--	**1.1**	<1	<1	<1	<0.2
	12/2/2016	2.19	--	--	--	--	--	**1.1**	<1	<1	<1	<0.2
	2/21/2017	2.11	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/26/2017	3.26	--	--	--	--	--	**1.0**	<1	<1	<1	<0.2
	8/8/2017	4.53	--	--	--	--	--	**2.0**	<1	<1	<1	<0.2
	11/21/2017	3.15	--	--	--	--	--	**1.3**	<1	<1	<1	<0.2
	2/16/2018	2.30	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/14/2018	3.28	--	--	--	--	--	<1	<1	<1	<1	<0.2
	8/22/2018	4.26	--	--	--	--	--	**2.0**	<1	<1	<1	<0.2
	12/3/2019	3.62	--	--	--	--	--	**1.4**	<1	<1	<1	<0.2
	12/14/2020	3.35	--	--	--	--	--	**1.3**	<1	<1	<1	<0.2
	1/19/2022	2.00	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/20/2022	3.08	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/20/2022	3.65	--	--	--	--	--	1.3	<0.5	<1	<1	<0.02
	10/19/2022	4.6	--	--	--	--	--	**1.8**	<0.5	<1	<1	<0.02
	1/23/2023	2.29	--	--	--	--	--	<1	<0.5	<1	<0.2	<0.02
	4/27/2023	3.19	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/24/2023	4.29	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/16/2023	4.08	--	--	--	--	--	**1.6**	<0.5	<1	<1	<0.02
	2/27/2024	2.83	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/30/2024	3.39	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	7/25/2024	4.11	--	--	--	--	--	**1.4**	<0.5	<1	<1	<0.02
	10/22/2024	3.91	--	--	--	--	--	**1.7**	<0.5	<1	<1	<0.02
	1/14/2025	2.32	--	--	--	--	--	<1	<0.5	<1	<1	<0.02

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
GW-8	2/11/2016	2.39	**22**	<1	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**21**	<1	<1	<1	<0.2
	5/20/2016	3.04	**25**	<1	<1	<1	<0.2	**21**	<1	<1	<1	<0.2
	8/30/2016	3.57	--	--	--	--	--	**20**	<1	<1	<1	<0.2
	12/2/2016	2.50	--	--	--	--	--	**18**	<1	<1	<1	<0.2
	2/21/2017	2.07	--	--	--	--	--	**16**	<1	<1	<1	<0.2
	5/26/2017	2.71	--	--	--	--	--	**14**	<1	<1	<1	<0.2
	8/8/2017	3.55	--	--	--	--	--	**26**	<1	<1	<1	<0.2
	11/21/2017	2.51	--	--	--	--	--	**13**	<1	<1	<1	<0.2
	2/19/2018	2.21	--	--	--	--	--	**12**	<1	<1	<1	<0.2
	5/15/2018	2.75	--	--	--	--	--	**9**	<1	<1	<1	<0.2
	5/15/18 DUP-1		--	--	--	--	--	**9.2**	<1	<1	<1	<0.2
	8/22/2018	3.38	--	--	--	--	--	**17**	<1	<1	<1	<0.2
	12/3/2019	2.89	--	--	--	--	--	**8.6**	<1	<1	<1	<0.2
	12/14/2020	2.59	--	--	--	--	--	**14**	<1	<1	<1	<0.2
	10/18/2021	3.82	--	--	--	--	--	**11**	**1.1**	**3.9**	<1	**0.18**
	1/19/2022 lc	1.55	--	--	--	--	--	<1	<0.5	**12**	<1	**0.19**
	4/20/2022	2.21	--	--	--	--	--	**1.6**	<0.5	**13**	<1	**0.45**
	7/20/2022	2.77	--	--	--	--	--	<1	<0.5	**19**	<1	**0.29**
	10/19/2022	3.52	--	--	--	--	--	<1	<0.5	**20**	<1	**0.84**
	1/23/2023	1.83	--	--	--	--	--	<1	<0.5	**11**	<0.2	**0.52**
	4/27/2023	2.61	--	--	--	--	--	<1	<0.5	**11**	<1	**0.97**
	7/24/2023	3.51	--	--	--	--	--	<1	<0.5	**11**	<1	**2.2**
	10/16/2023	2.59	--	--	--	--	--	<1	<0.5	**6.9**	<1	**3.6**
	2/27/2024	1.99	--	--	--	--	--	<1	**2.7**	**8.0**	<1	**0.44**
	4/30/2024	2.55	--	--	--	--	--	<1	**1.1**	**8.7**	<1	**0.49**
	7/25/2024	4.33	--	--	--	--	--	<1	<0.5	**3.4**	<1	**0.84**
	10/22/2024	3.31	--	--	--	--	--	<1	<0.5	**3.2**	<1	**2.3**
	1/14/2025	3.02	--	--	--	--	--	<1	<0.5	**1**	<1	**1.7**
GW-9	2/11/2016	2.66	<1	<1	**1.7**	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	<1	<1	**1.3**	<1	<0.2
	5/20/2016	2.84	<1	<1	**1.7**	<1	<0.2	<1	<1	**1.4**	<1	<0.2
	8/30/2016	4.30	--	--	--	--	--	<1	<1	**1.1**	<1	<0.2
	12/2/2016	2.34	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/21/2017	4.53	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/26/2017	2.70	--	--	--	--	--	<1	<1	**1.1**	<1	<0.2
	8/8/2017	4.22	--	--	--	--	--	<1	<1	**1.4**	<1	<0.2
	11/21/2017	2.30	--	--	--	--	--	<1	<1	<1	<1	<0.2
	2/16/2018	2.09	--	--	--	--	--	<1	<1	<1	<1	<0.2
	5/14/2018	2.33	--	--	--	--	--	<1	<1	**1.1**	<1	<0.2
	8/22/2018	3.55	--	--	--	--	--	<1	<1	**1.2**	<1	<0.2
	12/3/2019	2.70	--	--	--	--	--	<1	<1	<1	<1	<0.2
	12/14/2020	2.63	--	--	--	--	--	<1	<1	<1	<1	<0.2
	1/19/2022	2.25	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/21/2022	2.42	--	--	--	--	--	<1	<0.5	<1	<1	**0.067**
	7/20/2022	3.11	--	--	--	--	--	<1	<0.5	**1.2**	<1	**0.1**
	10/19/2022	5.09	--	--	--	--	--	<1	<0.5	**1.4**	<1	**0.15**
	1/23/2023	2.34	--	--	--	--	--	<1	<0.5	<1	<0.2	<0.02
	4/27/2023	2.62	--	--	--	--	--	<1	<0.5	<1	<1	**0.02**
	7/24/2023	4.18	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/16/2023	3.04	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	2/27/2024	2.25	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	4/30/2024	3.11	--	--	--	--	--	<1	<0.5	<1	<1	**0.021**
	7/25/2024	3.71	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	10/22/2024	3.76	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
	1/14/2025	3.32	--	--	--	--	--	<1	<0.5	<1	<1	<0.02
GW-10	2/11/2016	21.39	**19**	**1.2**	<1	<1	<0.2	--	--	--	--	--
	2/29/2016	NA	--	--	--	--	--	**27**	**1.2**	<1	<1	<0.2
	5/20/2016	23.21	**8.5**	**1.3**	<1	<1	<0.2	**5.8**	**1.1**	<1	<1	<0.2
	8/30/2016	23.86	**19**	**1.3**	**2.7**	<1	<0.2	**18**	**1.1**	<1	<1	<0.2
	12/2/2016	20.94	--	--	--	--	--	**16**	**1.3**	**1.3**	<1	<0.2
	2/21/2017	20.89	--	--	--	--	--	<1	<1	**14**	<1	<0.2
	5/25/2017	22.07	--	--	--	--	--	**1.9**	<1	**18**	<1	<0.2
	8/8/2017	23.95	<1	<1	**22**	<1	**0.23**	--	--	--	--	--
	11/21/2017	22.79	--	--	--	--	--	<1	<1	**32**	<1	<0.2
	2/20/2018	21.07	--	--	--	--	--	**3.8**	<1	11	<1	<0.2
	5/15/2018	21.59	--	--	--	--	--	**4**	<1	**10**	<1	<0.2
	8/1/2018	22.61	--	--	--	--	--	<1	<1	**20**	<1	<0.2
	12/3/2019	22.45	--	--	--	--	--	**2.3**	<1	**13**	<1	<0.2
	12/15/2020	21.74	--	--	--	--	--	**3.8**	<1	**8.0**	<1	<0.2
	1/19/2022	20.32	--	--	--	--	--	**8.3**	**0.66**	<1	<1	<0.02
	4/21/2022	21.78	--	--	--	--	--	**9.5**	**0.53**	<1	<1	<0.02
	7/20/2022	22.23	--	--	--	--	--	**7.9**	**<0.5**	<1	<1	**0.1**
	10/20/2022	23.14	**11.0**	**1.1**	<1	<1	<0.02	--	--	--	--	--
	1/24/2023	20.79	--	--	--	--	--	**11**	<0.5	<1	<0.2	<0.02
	4/28/2023	21.85	--	--	--	--	--	**11**	**0.53**	<1	<1	<0.02
	7/24/2023	23.02	**11**	**0.94**	<1	<1	<0.02	--	--	--	--	--
	10/17/2023	23.00	**8.8**	**2.5**	**13**	<1	**0.064**	--	--	--	--	--
	2/27/2024	21.60	--	--	--	--	--	**9.4**	**0.8**	**3.1**	<1	<0.02
	4/30/2024	22.09	--	--	--	--	--	**6**	**0.79**	**3.6**	<1	<0.02
	7/26/2024	22.59	--	--	--	--	--	**3.2**	**1.1**	**6.6**	<1	<0.02
	10/22/2024	22.57	--	--	--	--	--	**3.6**	**0.79**	**4.7**	<1	<0.02
	1/14/2025	21.14	--	--	--	--	--	**6.2**	**0.6**	**5.9**	<1	**0.028**

Table 1
Groundwater Analytical Data (µg/L)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

			Detected VOCs[b]					Detected VOCs[c]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
MTCA Method A CUL[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2
Sample ID	Sample Date	Depth to Water (ft)										
GW-11	2/9/2016	18.52	**8.4**	<1	<1	<1	<0.2	--	--	--	--	--
	5/17/2016	19.92	**25**	<1	<1	<1	<0.2	--	--	--	--	--
	8/30/2016	20.68	**19**	<1	<1	<1	<0.2	--	--	--	--	--
	12/2/2016	18.54	<1	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2017	18.02	**4.7**	<1	<1	<1	<0.2	--	--	--	--	--
	5/24/2017	19.18	**15**	<1	<1	<1	<0.2	--	--	--	--	--
	8/8/2017	20.58	**19**	<1	<1	<1	<0.2	--	--	--	--	--
	11/21/2017	19.34	**21**	<1	<1	<1	<0.2	--	--	--	--	--
	2/20/2018	18.22	--	--	--	--	--	**2.1**	<1	<1	<1	<0.2
	5/16/2018	19.17	**17**	<1	<1	<1	<0.2	--	--	--	--	--
	8/23/2018	20.29	**19**	<1	<1	<1	<0.2	--	--	--	--	--
	8/23/18 DUP-1		**19**	<1	<1	<1	<0.2	--	--	--	--	--
	12/3/2019	19.43	**17**	<1	<1	<1	<0.2	--	--	--	--	--
	12/16/2020	19.12	**12**	<1	<1	<1	<0.2	--	--	--	--	--
	1/20/2022	18.01	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	4/21/2022	18.51	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/21/2022	19.48	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	10/19/2022	20.91	<1	<0.5	**3**	<1	**0.17**	--	--	--	--	--
	1/24/2023	17.8	<1	<0.5	<1	<0.2	<0.02	--	--	--	--	--
	4/28/2023	18.65	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	7/24/2023	20.39	<1	<0.5	<1	<1	**0.025**	--	--	--	--	--
	10/17/2023	20.00	<1	<0.5	**2.2**	<1	**0.069**	--	--	--	--	--
	2/28/2024	18.51	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
	4/30/2024	18.79	<1	<0.5	<1	<1	**0.02**	--	--	--	--	--
	7/25/2024	22.05	<1	<0.5	<1	<1	**0.28**	--	--	--	--	--
	10/23/2024	20.10	<1	<0.5	<1	<1	**0.33**	--	--	--	--	--
	1/15/2025	17.25	<1	<0.5	<1	<1	<0.02	--	--	--	--	--
MTCA Method A Groundwater Cleanup Level[d]			5	5	16[e]	160[e]	0.2	5	5	16[e]	160[e]	0.2

Notes:

All results presented in micrograms per liter (µg/L).

Bold	Bold results indicate that the compound was detected.
	Shaded cells indicate that the compound was detected at a concentration greater than the cleanup level.
<	Result is less than the laboratory method detection limit.
--	Not analyzed.
a	Analyzed by EPA Method 200.8.
b	Analyzed by EPA Method 8260.
c	Analyzed by EPA Method 8260; sampled with passive diffusion bag (PDB)
d	MTCA Method A Groundwater Cleanup Level from Table 720-1 in Washington Administration Code (WAC) Chapter 173-340-900.
e	MTCA Method B Groundwater Cleanup Level used, Cleanup Levels and Risk Calculations (CLARC) guidance.
()	Value from re-analyzed sample after ve J qualifiers were indicated during initial analysis.
NA	Well not accessible.
NM	Not measured.

Qualifiers:

ca	The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
j	The analyte concentration is reported below the lowest calibration standard. The value is reported as an estimate.
lc	The presence of the analyte is likely due to laboratory contamination.
ve	The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
J	The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

Compounds:

VOCs	Volatile organic compounds
PCE	Tetrachloroethene
TCE	Trichloroethene
DCE	Dichloroethylene

Table 2
Sub Slab Vapor Intrusion Analytical Results (2016)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

Sample ID	Sample Date	Selected Volatile Compounds[a]					
		PCE	TCE	1,1-DCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride
VP1	3/8/2016	**2.65**	<0.0914	<0.0357	<0.0793	<0.0238	<0.217
VP2	3/8/2016	**2.98**	<0.0914	<0.0357	<0.0793	<0.0238	<0.217
VP3	3/8/2016	**86.8**	**11.6**	<0.0357	<0.0793	<0.0238	<0.217
VP4	3/8/2016	**4.95**	<0.0914	<0.0357	<0.0793	<0.0238	<0.217
VP5	3/8/2016	**0.95**	<0.0914	<0.0357	<0.0793	<0.0238	<0.217
VP6	3/8/2016	**6.24**	<0.0914	<0.0357	<0.0793	<0.0238	<0.217
Commercial Worker Sub-Slab Soil Gas Screening Level[b]		**1,500**	**95**	**26,000**	**5,200**	**5,200**	**44**
Non-Residential Short-Term TCE Subsurface Screening Levels[c]		**NVE**	**250**	**NVE**	**NVE**	**NVE**	**NVE**

Notes:

All results presented in milligrams per kilogram (µg/m³).

Bold Bold results indicates the analyte detected at a concentration greater than the laboratory reporting limit.

Shaded cells indicate that the compound was detected at a concentration greater than the MTCA Commercial Worker Soil Gas Screening Level.

a Analyzed by EPA Method TO-15 (SIM).

b Model Toxics Control Act (MTCA) Commercial Worker Soil Gas Screening Levels, Cleanup Levels and Risk Calculations (CLARC) guidance, February 2024. Where levels based on carcinogenic and non-carcinogenic, the lower value is listed.

c Non-Residential Short-Term TCE Subsurface Screening Levels, Table A-4 of Ecology's Guidance for Evaluating Vapor Instrusion in Washington State, March 2022.

< Indicates the analyte was not detected at a concentration greater than the listed laboratory reporting limit.

NVE No value established.

Compounds:

PCE Tetrachloroethene

TCE Trichloroethene

DCE Dichloroethylene

Table 3
Sub-Slab Soil Gas Analytical Results (2020)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

Sample ID	Sample Date	Select VOCs[a]					Helium[b]
		PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	
KB-VP1	1/29/2020	<68	<2.7	<4	<4	<2.6	<0.6
KB-VP2	1/29/2020	**560**	**6.9**	<7.9	<7.9	<5.1	<0.6
Commercial Worker Sub-Slab Soil Gas Screening Level[b]		**1,500**	**95**	**5,200**	**5,200**	**44**	**NVE**
Non-Residential Short-Term TCE Subsurface Screening Levels[d]		**NVE**	**250**	**NVE**	**NVE**	**NVE**	**NVE**

Notes:

Helium results presented as percent (%) Helieum, all other results presented in micrograms per cubic meter (µg/m3).

Bold	Bold results indicates the analyte detected at a concentration greater than the laboratory reporting limit.
	Shaded cells indicate that the compound was detected at a concentration greater than the cleanup level.
a	Analyzed by EPA Method TO-15.
b	Analyzed by EPA Method ASTM D1946.
c	Model Toxics Control Act (MTCA) Commercial Worker Soil Gas Screening Levels, Cleanup Levels and Risk Calculations (CLARC) guidance, February 2024. Where levels based on carcinogenic and non-carcinogenic, the lower value is listed.
d	Non-Residential Short-Term TCE Subsurface Screening Levels, Table A-4 of Ecology's Guidance for Evaluating Vapor Instrusion in Washington State, March 2022.
<	Indicates the analyte was not detected at a concentration greater than the listed laboratory reporting limit.
NVE	No Value Established in the Cleanup Levels and Risk Calculations (CLARC) database for this constituent.

Compounds:

VOCs	Volatile organic compounds
PCE	Tetrachloroethene
TCE	Trichloroethene
DCE	Dichloroethylene

Table 4
Indoor Air Analytical Results (2020)
Snohomish Square Cleaners
1419 Avenue D and 13th Street SE, Snohomish, Washington

Sample ID	Sample Date	Sample Location	Select VOCs[a]				
			PCE	TCE	cis-1,2 DCE	trans-1,2-DCE	Vinyl chloride
KB-BA-1	4/19/2020	Background	<6.8	<0.27	<0.4	<0.4	<0.26
KB-IA-1	4/19/2020	Indoor Air	<6.8	<0.27	<0.4	<0.4	<0.26
KB-IA-2	4/19/2020	Indoor Air	<6.8	<0.27	<0.4	<0.4	<0.26
Commercial Worker Indoor Air Cleanup Level[b]			**44.9**	**2.85**	**155.7**	**155.7**	**1.33**

Notes:
All results presented in micrograms/cubic meter (µg/m3).

a Collected by Method TO-15.

b Model Toxics Control Act (MTCA) Commercial Worker Indoor Air Screening Levels, Cleanup Levels and Risk Calculations (CLARC) guidance, February 2024. Where levels based on carcinogenic and non-carcinogenic, the lower value is listed.

< Indicates the analyte was not detected at a concentration greater than the listed laboratory reporting limit.

Compounds:

VOCs Volatile organic compounds
PCE Tetrachloroethene
TCE Trichloroethene
DCE Dichloroethylene

Figures

ORIGINAL PCE PLUME PRIOR TO TREATMENT (AS OF 2016)

CASCADE FENCING COMPANY

FERGUSON PARK ROAD

13TH STREET

AVENUE D

14TH STREET

FORMER SNOHOMISH SQUARE CLEANERS

PARCEL ID: 28060700201300

PARCEL ID: 28051200405400

MW-2 PCE:(ND) DATE:(8/05)

MW-3 PCE:(120) DATE:(8/05)

MW-10 PCE:(414) DATE:(5/07)

MW-9 PCE:(11) DATE:(8/04)

MW-4 PCE:(188) DATE:(5/07)

MW-1 PCE:(363) DATE:(8/05)

MW-11 PCE:(386) DATE:(5/07)

MW-7 PCE:(88) DATE:(8/05)

MW-14 PCE:(<1) DATE:(1/20/15)

MW-8 PCE:(ND) DATE:(8/05)

MW-6 PCE:(ND) DATE:(8/05)

MW-12 PCE:(1.5) DATE:(1/20/15)

MW-13 PCE:(3.6) DATE:(1/20/15)

GW-10 PCE:(41.6) DATE:(7/10)

GW-11 PCE:(40.9) DATE:(7/10)

GW-8 PCE:(51.2) DATE:(7/10)

GW-9 PCE:(3.3) DATE:(7/10)

GW-7 PCE:(2.4) DATE:(7/10)

GW-5 PCE:(7.1) DATE:(7/10)

GW-3 PCE:(3) DATE:(7/10)

GW-6 PCE:(16.6) DATE:(7/10)

GW-2 PCE:(ND) DATE:(9/09)

GW-1 PCE:(ND) DATE:(9/09)

400

300

200

100

5.0

5

50

N

0 50 100 200

SCALE (1" = 100')

LEGEND

- MONITORING WELL LOCATION WITH HISTORICAL PCE CONCENTRATION IN GROUNDWATER (MICROGRAMS PER LITER)
- INDICATES TETRACHLOROETHENE (PCE) IN GROUNDWATER EXCEEDS MTCA METHOD A CLEANUP LEVEL

PCE CONCENTRATIONS IN GROUNDWATER (HISTORICAL RESULTS IN MICROGRAMS PER LITER)

- ≥5.0 TO <50.0
- ≥50.0 TO <100.0
- ≥100.0 TO <200.0
- ≥200.0 TO <300.0
- ≥300.0 TO <400.0
- ≥400.0
- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- SURROUNDING PARCELS
- INTERPOLATED PCE ISOCONTOUR, CONCENTRATION IN MICROGRAMS PER LITER
- SUB-SLAB SOIL GAS SAMPLE LOCATIONS (MARCH 2016)

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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PREPARED FOR: SKOTDAL REAL ESTATE

ANNUAL GROUNDWATER MONITORING REPORT

DRAWN BY: VB | CHECKED BY: AY | DATE: 4/17/2025 | PROJECT NO. 240200521

FIGURE 1A

SITEWISE GROUNDWATER ANALYTICAL RESULTS FOR HISTORICAL CONCENTRATIONS OF TETRACHLOROETHENE (PCE)

SNOHOMISH CLEANERS
1419 AVENUE D
SNOHOMISH, WASHINGTON

File: C:\Users\VincentBachmann\Box\240200521 Skotdal - Snohomish Cleaners\JSH\Graphics and Plans\GIS\2-APRX\240200521_Skotdal_Sno_Cleaners_Proposal_2025_Q2.aprx

JANUARY 2025

CASCADE FENCING COMPANY

FERGUSON PARK ROAD

13TH STREET

AVENUE D

14TH STREET

PARCEL ID: 28060700201300

PARCEL ID: 28051200405400

FORMER SNOHOMISH SQUARE CLEANERS

MW-17 PCE:(<1)
MW-16 PCE:(<1)
MW-2 PCE:(<1)
MW-3 PCE:(6.1)
MW-10 PCE:(16)
MW-9 PCE:(6.2)
MW-1 PCE:(<1)
MW-4 PCE:(<1)
MW-11 PCE:(15)
MW-20 PCE:(60)
MW-19 PCE:(<1)
MW-23 PCE:(11)
MW-22 PCE:(7.7)
MW-14 PCE:(<1)
MW-8 PCE:(<1)
MW-21 PCE:(<1)
MW-12 PCE:(1.4)
MW-6 PCE:(<1)
MW-7 PCE:(9)
MW-13 PCE:(4.1)
GW-10 PCE:(6.2)
GW-1 PCE:(<1)
GW-7 PCE:(<1)
GW-8 PCE:(<1)
GW-11 PCE:(<1)
GW-3 PCE:(<1)
GW-4 PCE:(<1)
GW-9 PCE:(<1)
GW-6 PCE:(3.1)
GW-5 PCE:(2.3)

KB-VP1
KB-IA1
KB-BA1
KB-VP2
KB-IA2

5:0
50
5:0
5:0

N

0 50 100 200

SCALE (1" = 100')

LEGEND

- MONITORING WELL LOCATION WITH PCE AND VC CONCENTRATIONS IN GROUNDWATER (JULY 2023)
- INDICATES TETRACHLOROETHENE (PCE) IN GROUNDWATER EXCEEDS MTCA METHOD A CLEANUP LEVEL
- PCE CONCENTRATIONS IN GROUNDWATER (HISTORICAL RESULTS IN MICROGRAMS PER LITER)
  - ≥5.0 TO <50.0
  - ≥50.0 TO <100.0
- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- SURROUNDING PARCELS
- PCE ISOCONTOUR, CONCENTRATION IN MICROGRAMS PER LITER. DASHED WHERE INFERRED
- KB-VP1 SUB-SLAB SOIL GAS SAMPLE LOCATIONS (MJANUARY 2020)
- KB-IA1 INDOOR AIR SAMPLE LOCATIONS (JANUARY 2020)

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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PREPARED FOR: SKOTDAL REAL ESTATE

ANNUAL GROUNDWATER MONITORING REPORT

DRAWN BY: VB | CHECKED BY: AY | DATE: 4/17/2025 | PROJECT NO. 240200521

FIGURE 1B
SITEWIDE GROUNDWATER ANALYTICAL RESULTS FOR TETRACHLOROETHENE (JANUARY 2025)
SNOHOMISH CLEANERS
1419 AVENUE D
SNOHOMISH, WASHINGTON

File: C:\Users\VincentBachmann\Box\240200521 Skotdal - Snohomish Cleaners\JSH\Graphics and Plans\GIS\2-APRX\240200521_Skotdal_Sno_Cleaners_Proposal_2025_Q2.aprx

Attachment A – Sub-slab and Air Data Analytical Reports

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Environmental Partners, Inc.
Josh Bernthal
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

RE: Skotdal Real Estate
Lab ID: 1603112

March 17, 2016

Attention Josh Bernthal:

Fremont Analytical, Inc. received 6 sample(s) on 3/9/2016 for the analyses presented in the following report.

Volatile Organic Compounds-EPA Method TO-15 (SIM)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
President

Date: *03/17/2016*

CLIENT: Environmental Partners, Inc.
Project: Skotdal Real Estate
Lab Order: 1603112

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1603112-001	VP5	03/08/2016 8:10 AM	03/09/2016 2:45 PM
1603112-002	VP3	03/08/2016 8:17 AM	03/09/2016 2:45 PM
1603112-003	VP6	03/08/2016 8:21 AM	03/09/2016 2:45 PM
1603112-004	VP1	03/08/2016 8:02 AM	03/09/2016 2:45 PM
1603112-005	VP4	03/08/2016 8:07 AM	03/09/2016 2:45 PM
1603112-006	VP2	03/08/2016 8:14 AM	03/09/2016 2:45 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1603112**
Date: **3/17/2016**

CLIENT: Environmental Partners, Inc.
Project: Skotdal Real Estate

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: **Environmental Partners, Inc.**
WorkOrder: 1603112
Project: Skotdal Real Estate

Client Sample ID: VP5
Lab ID: 1603112-001A
Sample Type: Summa Canister

Date Sampled: 3/8/2016
Date Received: 3/9/2016

Volatile Organic Compounds-EPA Method TO-15 (SIM)

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	03/17/2016	JY
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/17/2016	JY
Tetrachloroethene (PCE)	0.140	0.950	0.0500	0.339		EPA-TO-15SIM	03/17/2016	JY
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/17/2016	JY
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	03/17/2016	JY
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/17/2016	JY
Surr: 4-Bromofluorobenzene	105 %Rec	--	70-130	--		EPA-TO-15SIM	03/17/2016	JY

Client: **Environmental Partners, Inc.**
WorkOrder: 1603112
Project: Skotdal Real Estate

Client Sample ID: VP3
Lab ID: 1603112-002A
Sample Type: Summa Canister

Date Sampled: 3/8/2016
Date Received: 3/9/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds-EPA Method TO-15 (SIM)								
	(ppbv)	**(ug/m³)**	**(ppbv)**	**(ug/m³)**				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	03/16/2016	JY
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/16/2016	JY
Tetrachloroethene (PCE)	12.8	86.8	0.800	5.43		EPA-TO-15SIM	03/16/2016	JY
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/16/2016	JY
Trichloroethene (TCE)	2.16	11.6	0.0170	0.0914		EPA-TO-15SIM	03/16/2016	JY
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/16/2016	JY
Surr: 4-Bromofluorobenzene	128 %Rec	--	70-130	--		EPA-TO-15SIM	03/16/2016	JY

Client: **Environmental Partners, Inc.**
WorkOrder: 1603112
Project: Skotdal Real Estate

Client Sample ID: VP6
Lab ID: 1603112-003A
Sample Type: Summa Canister

Date Sampled: 3/8/2016
Date Received: 3/9/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds-EPA Method TO-15 (SIM)								
	(ppbv)	**(ug/m³)**	**(ppbv)**	**(ug/m³)**				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	03/16/2016	JY
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/16/2016	JY
Tetrachloroethene (PCE)	0.920	6.24	0.0500	0.339		EPA-TO-15SIM	03/16/2016	JY
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/16/2016	JY
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	03/16/2016	JY
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/16/2016	JY
Surr: 4-Bromofluorobenzene	127 %Rec	--	70-130	--		EPA-TO-15SIM	03/16/2016	JY

Client: **Environmental Partners, Inc.**
WorkOrder: 1603112
Project: Skotdal Real Estate

Client Sample ID: VP1
Lab ID: 1603112-004A
Sample Type: Summa Canister

Date Sampled: 3/8/2016
Date Received: 3/9/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds-EPA Method TO-15 (SIM)								
	(ppbv)	**(ug/m³)**	**(ppbv)**	**(ug/m³)**				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	03/16/2016	JY
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/16/2016	JY
Tetrachloroethene (PCE)	0.390	2.65	0.0500	0.339		EPA-TO-15SIM	03/16/2016	JY
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/16/2016	JY
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	03/16/2016	JY
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/16/2016	JY
Surr: 4-Bromofluorobenzene	111 %Rec	--	70-130	--		EPA-TO-15SIM	03/16/2016	JY

Client: **Environmental Partners, Inc.**
WorkOrder: 1603112
Project: Skotdal Real Estate

Client Sample ID: VP4
Lab ID: 1603112-005A
Sample Type: Summa Canister

Date Sampled: 3/8/2016
Date Received: 3/9/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds-EPA Method TO-15 (SIM)								
	(ppbv)	**(ug/m³)**	**(ppbv)**	**(ug/m³)**				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	03/16/2016	JY
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/16/2016	JY
Tetrachloroethene (PCE)	0.730	4.95	0.0500	0.339		EPA-TO-15SIM	03/16/2016	JY
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/16/2016	JY
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	03/16/2016	JY
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/16/2016	JY
Surr: 4-Bromofluorobenzene	120 %Rec	--	70-130	--		EPA-TO-15SIM	03/16/2016	JY

Client: **Environmental Partners, Inc.**
WorkOrder: 1603112
Project: Skotdal Real Estate

Client Sample ID: VP2
Lab ID: 1603112-006A
Sample Type: Summa Canister

Date Sampled: 3/8/2016
Date Received: 3/9/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds-EPA Method TO-15 (SIM)								
	(ppbv)	**(ug/m³)**	**(ppbv)**	**(ug/m³)**				
1,1-Dichloroethene (DCE)	<0.00900	<0.0357	0.00900	0.0357		EPA-TO-15SIM	03/16/2016	JY
cis-1,2-Dichloroethene	<0.0200	<0.0793	0.0200	0.0793		EPA-TO-15SIM	03/16/2016	JY
Tetrachloroethene (PCE)	0.440	2.98	0.0500	0.339		EPA-TO-15SIM	03/16/2016	JY
trans-1,2-Dichloroethene	<0.00600	<0.0238	0.00600	0.0238		EPA-TO-15SIM	03/16/2016	JY
Trichloroethene (TCE)	<0.0170	<0.0914	0.0170	0.0914		EPA-TO-15SIM	03/16/2016	JY
Vinyl chloride	<0.0850	<0.217	0.0850	0.217		EPA-TO-15SIM	03/16/2016	JY
Surr: 4-Bromofluorobenzene	112 %Rec	--	70-130	--		EPA-TO-15SIM	03/16/2016	JY

Work Order: 1603112
CLIENT: Environmental Partners, Inc.
Project: Skotdal Real Estate

QC SUMMARY REPORT

Volatile Organic Compounds-EPA Method TO-15 (SIM)

Sample ID **1603112-004AREP** SampType: **REP** Units: **ppbv** Prep Date: **3/16/2016** RunNo: **28278**
Client ID: **VP1** Batch ID: **R28278** Analysis Date: **3/16/2016** SeqNo: **531496**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0850						0		30	
1,1-Dichloroethene (DCE)	ND	0.00900						0		30	
trans-1,2-Dichloroethene	ND	0.00600						0		30	
cis-1,2-Dichloroethene	ND	0.0200						0		30	
Trichloroethene (TCE)	ND	0.0170						0		30	
Tetrachloroethene (PCE)	0.370	0.0500						0.3900	5.26	30	
Surr: 4-Bromofluorobenzene	12.6		10.00		126	70	130		0		

Sample ID **LCS-B-R28278** SampType: **LCS** Units: **ppbv** Prep Date: **3/17/2016** RunNo: **28278**
Client ID: **LCSW** Batch ID: **R28278** Analysis Date: **3/17/2016** SeqNo: **531501**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	2.33	0.0850	2.500	0	93.2	70	130				
1,1-Dichloroethene (DCE)	2.32	0.00900	2.500	0	92.8	70	130				
trans-1,2-Dichloroethene	2.33	0.00600	2.500	0	93.2	70	130				
cis-1,2-Dichloroethene	2.52	0.0200	2.500	0	101	70	130				
Trichloroethene (TCE)	2.59	0.0170	2.500	0	104	70	130				
Tetrachloroethene (PCE)	2.60	0.0500	2.500	0	104	70	130				
Surr: 4-Bromofluorobenzene	10.1		10.00		101	70	130				

Sample ID **MB-B-R28278** SampType: **MBLK** Units: **ppbv** Prep Date: **3/17/2016** RunNo: **28278**
Client ID: **MBLKW** Batch ID: **R28278** Analysis Date: **3/17/2016** SeqNo: **531503**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0850									
1,1-Dichloroethene (DCE)	ND	0.00900									
trans-1,2-Dichloroethene	ND	0.00600									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0170									
Tetrachloroethene (PCE)	ND	0.0500									

Work Order: 1603112
CLIENT: Environmental Partners, Inc.
Project: Skotdal Real Estate

QC SUMMARY REPORT

Volatile Organic Compounds-EPA Method TO-15 (SIM)

Sample ID	**MB-B-R28278**	SampType:	**MBLK**		Units:	**ppbv**	Prep Date:	**3/17/2016**		RunNo:	**28278**
Client ID:	**MBLKW**	Batch ID:	**R28278**				Analysis Date:	**3/17/2016**		SeqNo:	**531503**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.99		10.00		99.9	70	130				

Sample Log-In Check List

Client Name:	**EPI**	Work Order Number:	**1603112**
Logged by:	**Clare Griggs**	Date Received:	**3/9/2016 2:45:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Courier		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Samples		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C *	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☑	No ☐	NA ☐

Person Notified:	Josh Berthal	Date	3/9/2016
By Whom:	Clare Griggs	Via:	☐ eMail ☑ Phone ☐ Fax ☐ In Person
Regarding:	Confirming analysis and analyte list.		
Client Instructions:	3/10/2016: PCE & Breakdown by TO15 SIM		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical

Air Chain of Custody Record - Whole Air Sample

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1603112

Date: 3/8/16

Page: 1 of: 2

Client: Environmental Partners, Inc.
Address: 1180 NW Maple Street
City, State, Zip: Issaquah, WA
Telephone: 425-395-0010 Fax:

Project Name: SKotdal Real Estate
Project No: 69402 Collected by: J. Sherrod
Location: Snohomish, WA
Reports To (PM): joshb@epi-wa.com
Email (PM): Josh Bernthal

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag 1V = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	VP5	17642	3/8/16	SS	8hr	6L	Summa	10 mtorr			-30	-3.5	cVOC's		-3
		FV3	0810					2/29/16 13:00			0810	1500	EPA-TO-15		
2	VP3	17646	3/8/16	SS	8hr	6L	Summa	10 mtorr			-28	-2	cVOC's		-1
		FR8-05	0817					2/29/16 13:00			0817	1350	EPA-TO-15		
3	VP6	12668	3/8/16	SS	8hr	6L	Summa	10 mtorr			-30	-4	cVOC's		-4
		FR8-08	0821					3/4/16 9:30			0821	1555	EPA-TO-15		
4	VP1	13968	3/8/16	SS	8hr	6L	Summa	10 mtorr			-30	-4	cVOC's		-1
		FR8-15	0802					3/4/16 9:30			0802	1557	EPA-TO-15		
5	VP4	13972	3/8/16	SS	8hr	6L	Summa	10 mtorr			-28	-6	cVOC's		-6
		FR8-16	0807					3/4/16 9:30			0807	1607	EPA-TO-15		

Rental Equipment (Circle all that apply): Manifold Mini-Pump Fittings Tedlar Bags Canisters Flow Controllers Helium Cylinder Flouridated Tubing Wrench

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks: Billed to SKotdal Real Estate

Relinquished x [signature] Date/Time 3/9/16 0700

Received x Rick-02 Date/Time 3-9-16 13:50

Relinquished x Rick-02 Date/Time 3-9-16 14:41

Received x [signature] Date/Time 03/09/16 1:41 PM

TAT -> (STD) Rush (specify)

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Air Chain of Custody Record - Whole Air Sample

Date: 3/8/16

Laboratory Project No (internal):

Page: 2 of: 2

Client: Environmental Partners, Inc.
Address: 1180 NW Maple St
City, State, Zip: Issaquah, WA
Telephone: 425-395-0010
Fax:

Project Name: Skotdal Real Estate
Project No: 69402
Collected by:
Location: Snohomish, WA
Reports To (PM): Josh Benthal
Email (PM): joshb@Epi-wa.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Evacuation Pressure (mtorr) (Internal)	Pressure at Time of Pick-up (" Hg) (Internal)	Equipment Certification Code (Internal)	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Receipt Date (Internal)	Final Pressure ("Hg) (Internal)
1	VP2	13975 / FR8-18	03/8/16 0814	SS	8hr	6L	Summa	10 mtorr / 3/4/16 9:30			-30 / 0814	-7 / 1549	cVOC's EPA-TO-15		-7
2															
3															
4															
5															

Rental Equipment (Circle all that apply): Manifold Mini-Pump Fittings Tedlar Bags Canisters Flow Controllers Helium Cylinder Flouridated Tubing Wrench

Condition:
Seals intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks: Billed to Skotdal Real Estate

Relinquished	Date/Time	Received	Date/Time
[signature]	3/9/16 0700	RICK- 82	3-9-16 13:50
RICK. 82	3-9-16 14:41	Samantha Beaman	03/09/16 2:41PM

TAT --> STD (circled) Rush (specify)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

February 12, 2020

Josh Bernthal, Project Manager
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 015378, F&BI 001452

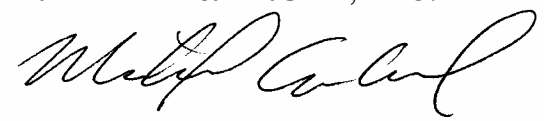
Dear Mr Bernthal:

Included are the results from the testing of material submitted on January 31, 2020 from the 015378, F&BI 001452 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon
TRC0212R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on January 31, 2020 by Friedman & Bruya, Inc. from the Environmental Partners 015378, F&BI 001452 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Environmental Partners
001452-01	KB-VP1
001452-02	KB-VP2

All quality control requirements were acceptable.

Date of Report: 02/12/20
Date Received: 01/31/20
Project: 015378, F&BI 001452
Date Extracted: 01/31/20
Date Analyzed: 02/10/20

RESULTS FROM THE ANALYSIS OF AIR SAMPLES FOR HELIUM USING METHOD ASTM D1946

Results Reported as % Helium

Sample ID Laboratory ID	Helium
KB-VP1 001452-01	<0.6
KB-VP2 001452-02	<0.6
Method Blank	<0.6

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	KB-VP1	Client:	Environmental Partners
Date Received:	01/31/20	Project:	015378, F&BI 001452
Date Collected:	01/29/20	Lab ID:	001452-01 1/10
Date Analyzed:	02/07/20	Data File:	020633.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	78	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<2.6	<1
Chloroethane	<26	<10
1,1-Dichloroethene	<4	<1
trans-1,2-Dichloroethene	<4	<1
1,1-Dichloroethane	<4	<1
cis-1,2-Dichloroethene	<4	<1
1,2-Dichloroethane (EDC)	<0.4	<0.1
1,1,1-Trichloroethane	<5.5	<1
Trichloroethene	<2.7	<0.5
1,1,2-Trichloroethane	<1.1	<0.2
Tetrachloroethene	<68	<10

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	KB-VP2	Client:	Environmental Partners
Date Received:	01/31/20	Project:	015378, F&BI 001452
Date Collected:	01/29/20	Lab ID:	001452-02 1/20
Date Analyzed:	02/07/20	Data File:	020634.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	98	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<5.1	<2
Chloroethane	<53	<20
1,1-Dichloroethene	<7.9	<2
trans-1,2-Dichloroethene	<7.9	<2
1,1-Dichloroethane	<8.1	<2
cis-1,2-Dichloroethene	<7.9	<2
1,2-Dichloroethane (EDC)	<0.81	<0.2
1,1,1-Trichloroethane	<11	<2
Trichloroethene	6.9	1.3
1,1,2-Trichloroethane	<2.2	<0.4
Tetrachloroethene	560	82

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Environmental Partners
Date Received:	Not Applicable	Project:	015378, F&BI 001452
Date Collected:	Not Applicable	Lab ID:	00-0315 mb
Date Analyzed:	02/06/20	Data File:	020613.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.27	<0.05
1,1,2-Trichloroethane	<0.11	<0.02
Tetrachloroethene	<6.8	<1

Date of Report: 02/12/20
Date Received: 01/31/20
Project: 015378, F&BI 001452

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR HELIUM USING METHOD ASTM D1946

Laboratory Code: 001452-02 (Duplicate)

Analyte	Sample Result (%)	Duplicate Result (%)	Relative Percent Difference	Acceptance Criteria
Helium	<0.6	0.61	nm	0-20

Date of Report: 02/12/20
Date Received: 01/31/20
Project: 015378, F&BI 001452

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 001422-07 1/4.1 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ppbv	<0.41	<0.41	nm
Chloroethane	ppbv	<4.1	<4.1	nm
1,1-Dichloroethene	ppbv	<0.41	<0.41	nm
trans-1,2-Dichloroethene	ppbv	<0.41	<0.41	nm
1,1-Dichloroethane	ppbv	<0.41	<0.41	nm
cis-1,2-Dichloroethene	ppbv	<0.41	<0.41	nm
1,2-Dichloroethane (EDC)	ppbv	<0.041	<0.041	nm
1,1,1-Trichloroethane	ppbv	<0.41	<0.41	nm
Trichloroethene	ppbv	<0.2	<0.2	nm
1,1,2-Trichloroethane	ppbv	<0.082	<0.082	nm
Tetrachloroethene	ppbv	<4.1	<4.1	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ppbv	5	80	70-130
Chloroethane	ppbv	5	83	70-130
1,1-Dichloroethene	ppbv	5	83	70-130
trans-1,2-Dichloroethene	ppbv	5	80	70-130
1,1-Dichloroethane	ppbv	5	78	70-130
cis-1,2-Dichloroethene	ppbv	5	81	70-130
1,2-Dichloroethane (EDC)	ppbv	5	80	70-130
1,1,1-Trichloroethane	ppbv	5	89	70-130
Trichloroethene	ppbv	5	81	70-130
1,1,2-Trichloroethane	ppbv	5	89	70-130
Tetrachloroethene	ppbv	5	87	70-130

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

001452 ME 01/31/20

Page # 1 of 1

Report To Josh Benthal / Joe Sherrod

Company TRC

Address 1180 NW Maple St

City, State, ZIP Issaquah, WA 98027

Phone _____ Email JBenthal@trcompanies.com

SAMPLERS (*signature*)	
PROJECT NAME & ADDRESS: 015378	PO #: 015378
NOTES:	INVOICE TO: TRC

TURNAROUND TIME
- [x] Standard
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Default: Clean after 3 days
- [ ] Archive (Fee may apply)

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium		Notes
KB-VP1	01	18572	00605	IA / (SG)	1/29/20	30	0850	11	1613			X		X		
KB-VP2	02	20541	07347	IA / (SG)	1/29/20	30	0858	9	1611			X		X		
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG						Samples received at 20 °C						

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Joe Sherrod	TRC	1/31/20	0630
Received by:	Michael Eacli	FIB	1	
Relinquished by:				
Received by:				

~~Samples received at~~ 3.0 °C (NP)

FORMS\COC\COCTO-15.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

May 5, 2020

Josh Bernthal, Project Manager
TRC Environmental
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 015378, F&BI 004220

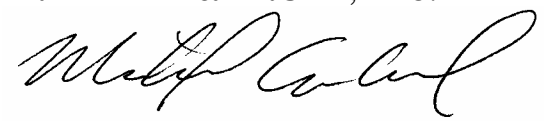
Dear Mr Bernthal:

Included are the results from the testing of material submitted on April 21, 2020 from the 015378, F&BI 004220 project. There are 7 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon
TRC0505R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 21, 2020 by Friedman & Bruya, Inc. from the Environmental Partners 015378, F&BI 004220 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Environmental Partners
004220 -01	KB-IA-1
004220 -02	KB-IA-2
004220 -03	KB-BA-1

All quality control requirements were acceptable.

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	KB-IA-1	Client:	Environmental Partners
Date Received:	04/21/20	Project:	015378, F&BI 004220
Date Collected:	04/19/20	Lab ID:	004220-01
Date Analyzed:	04/30/20	Data File:	042928.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.27	<0.05
1,1,2-Trichloroethane	<0.11	<0.02
Tetrachloroethene	<6.8	<1

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	KB-IA-2	Client:	Environmental Partners
Date Received:	04/21/20	Project:	015378, F&BI 004220
Date Collected:	04/19/20	Lab ID:	004220-02
Date Analyzed:	04/30/20	Data File:	042929.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	104	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.27	<0.05
1,1,2-Trichloroethane	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	KB-BA-1	Client:	Environmental Partners
Date Received:	04/21/20	Project:	015378, F&BI 004220
Date Collected:	04/19/20	Lab ID:	004220-03
Date Analyzed:	04/30/20	Data File:	042930.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	90	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.27	<0.05
1,1,2-Trichloroethane	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Environmental Partners
Date Received:	Not Applicable	Project:	015378, F&BI 004220
Date Collected:	Not Applicable	Lab ID:	00-0948 mb
Date Analyzed:	04/30/20	Data File:	042921.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.27	<0.05
1,1,2-Trichloroethane	<0.11	<0.02
Tetrachloroethene	<6.8	<1

Date of Report: 05/05/20
Date Received: 04/21/20
Project: 015378, F&BI 004220

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 004264-01 1/7.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<2	<2	nm
Chloroethane	ug/m3	<21	<21	nm
1,1-Dichloroethene	ug/m3	<3.1	<3.1	nm
trans-1,2-Dichloroethene	ug/m3	<3.1	<3.1	nm
1,1-Dichloroethane	ug/m3	<3.2	<3.2	nm
cis-1,2-Dichloroethene	ug/m3	<3.1	<3.1	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.32	<0.32	nm
1,1,1-Trichloroethane	ug/m3	<4.3	<4.3	nm
Trichloroethene	ug/m3	<2.1	<2.1	nm
1,1,2-Trichloroethane	ug/m3	<0.85	<0.85	nm
Tetrachloroethene	ug/m3	<53	<53	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	80	70-130
Chloroethane	ug/m3	36	84	70-130
1,1-Dichloroethene	ug/m3	54	96	70-130
trans-1,2-Dichloroethene	ug/m3	54	91	70-130
1,1-Dichloroethane	ug/m3	55	87	70-130
cis-1,2-Dichloroethene	ug/m3	54	95	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	98	70-130
1,1,1-Trichloroethane	ug/m3	74	96	70-130
Trichloroethene	ug/m3	73	81	70-130
1,1,2-Trichloroethane	ug/m3	74	79	70-130
Tetrachloroethene	ug/m3	92	85	70-130

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

004220

SAMPLE CHAIN OF CUSTODY

ME 04/21/20

Page # 1 of 1

Report To Josh Bernthal

Company TRC

Address 1180 NW Maple St

City, State, ZIP Issaquah, WA 98027

Phone _____ Email JBernthal@trccompanies.com

SAMPLERS (*signature*)

PROJECT NAME & ADDRESS: 015378 (TRC)

PO #

NOTES: 69402 (EPI)

INVOICE TO

TURNAROUND TIME
- [X] Standard
- [ ] RUSH _____
- Rush charges authorized by: _____

SAMPLE DISPOSAL
- [ ] Default: Clean after 3 days
- [ ] Archive (Fee may apply)

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium		Notes
KB-IA-1	01	18577	07854	(IA) / SG	4/19/20	29	0743	6	1543			X				
KB-IA-2	02	20555	07852	(IA) / SG	4/19/20	30	0749	7	1549			X				
KB-BA-1	03	23227	06607	(IA) / SG	4/19/20	30	0754	10	1554			X				
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												Samples received at 20 °C
				IA / SG												

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Eric Krueger	TRC	4/21/20	1059
Received by:	Nhan Phan	FEBT	4/21/20	1059
Relinquished by:				
Received by:				

FORMS\COC\COCTO-15.DOC

Attachment B – AGI Soil Gas Survey Report

AMPLIFIED GEOCHEMICAL IMAGING, LLC

Laboratory Report

Site: 69402.2 - Skotdal

Prepared for:

Environmental Partners, Inc.
1180 NW Maple Street
Suite 310
Issaquah, WA 98027
USA

Prepared on:
June 17, 2019

Project Summary and Objective

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

69402.2 - Skotdal

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described below for the requested organic compounds, reporting of the data, and contour mapping (as needed).

This report includes results for only the samples noted under the Laboratory Sample Report section. If contour maps are part of the project deliverable, the maps will be prepared and issued under a separate report cover, upon receipt of a usable sitemap (electronic) and compound choices for contouring.

Written/submitted by:

Ray Fenstermacher, P.G.
Project Manager

Reviewed/approved by:

Dayna Cobb
Manager of Environmental Services

Analytical data approved by:

Dayna Cobb
Manager of Environmental Services

Quality Assurance Statement

The AGI Laboratory, at Amplified Geochemical Imaging's facility in Newark, DE USA, operates under the guidelines of its ISO Standard 17025 DoD ELAP accreditation, and its Quality Assurance Manual, Operating Procedures, and Methods (SOP-QA-0462).

For this project, the analytical method, results, and observations reported do [ ] do not [√] fall within the scope of AGI's ISO 17025 accreditation.

Screening/Concentration Method

The AGI Universal Samplers are analyzed at AGI's fixed laboratory using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following modified U.S. EPA Method 8260 (SPG-WI-0292) which includes the following:

- **BFB Tuning Frequency:** A BFB tune is analyzed at the start of each analytical run and after every 30 samples.
- **Initial Calibration:** A minimum of a five point calibration curve is analyzed prior to the analysis of samples.
- **Initial Calibration Verification (ICV):** Following the calibration a second-source reference standard is analyzed to verify the accuracy of the calibration. Acceptance criteria for the ICV is +/- 30%.
- **Linearity of Target Compounds:** If the RSD of any target analyte is less than or equal to 25% then average response factor can be used for quantitation. If the RSD exceeds 25% for a target compound a regression equation can be used for quantitation.
- **Continuing Calibration Verification:** After every 10 samples, and at the end of each analytical batch, a mid-level second-source Reference Standard is analyzed. The acceptance criteria for all target analytes in the reference standards are +/- 50% of the true value.
- **Method Blank:** Analyzed prior to the analysis of field samples and every 30 samples.

Note: Analyte levels reported for the field-deployed AGI Universal Samplers that exceed trip and method blank levels, and/or the reporting limit, are more likely to have originated from on-site sources.

Media Sampled:	SOIL GAS
Chemist - sample analysis:	Ian McMullen
Chemist - data processor:	Ian McMullen
Chemist - data review:	Dayna Cobb

Method deviations: None

Please note that data file names ending with R are rerun samples using the second pair of sorbers, in which the original results were not reported. Data file names ending in D are duplicate analysis results for the second set of sorbers from the same sampler, and are reported.

Additional Report Information

- Comments
- Laboratory Sample Report
- Chain of Custody
- Installation and Retrieval Log
- Data Table(s) and Key
- Total Ion Chromatograms

Project Specific Comments

All samplers that were returned to the laboratory were analyzed including the trip blank 00803038. Sample 00803027 was observed to be damaged during the installation, and one of the two designated trip blanks was used to replace this sample. Another sample (00803021) was lost in the field .

Survey period [1]	Samplers were installed on May 16 and May 17, 2019. Samples were retrieved on May 24, 2019 for an exposure period of 7-8 days.	
Tamper seal intact:	Yes	
Date received:	5/31/19 10:47 am	By: Dayna Cobb
COC returned:	Yes	
Comments:	None	

1 - Installation start to end of retrieval, as reported. See installation and retrieval log for individual deployment and retrieval dates and times (i.e., sampler exposure time).

General Comments

Analytical QA/QC

Laboratory instrumentation consists of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation involves cutting the tip off the bottom of the AGI Universal Sampler, and transferring one or more "sorbers" to a thermal desorption tube for analysis. The insertion/retrieval cord prevents soil, water and other interferences from coming in contact with the adsorbent. No further sample preparation is required. Any replicate sorbers not consumed in the initial analysis will be discarded fifteen (15) days from the date of the laboratory report.

Data are archived and stored in a secure manner as per AGI's Quality Assurance program (SOP-QA-0462).

Total petroleum hydrocarbons (TPH), gasoline-range petroleum hydrocarbons (GRPH), and/or diesel range petroleum hydrocarbons (DRPH), when reported, are calculated using the area under the peaks observed in m/z 55 and 57 selected ion chromatograms. Quantitation of the mass values was performed using the response factor for a specific alkane (present in the calibration standards). TPH values include the entire chromatogram and provide estimates for aliphatic hydrocarbon ranges of C4 to C20. GRPH and DRPH include only the relevant regions of the chromatograms and provide estimates for C4 to C10 and C10 to C20 aliphatic hydrocarbons, respectively.

Trip blanks were provided to document potential exposures that were not part of the signal of interest (e.g., impact during sampler shipment, installation and/or retrieval, and storage). The trip blanks are identically manufactured and packaged AGI Universal Samplers to those samplers deployed in the field . The trip blanks remain unopened during all phases of the project. Levels reported on the trip blanks may indicate potential impact to the samplers other than the contaminant source of interest.

Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. UPEs may be indicative of complex fluid mixtures. UPEs observed early in the chromatograms are considered to indicate presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.

Total ion chromatograms (TICs) are included in the Attachments. The eight-digit serial number of each sampler is incorporated in the TIC identification (e.g., 12345678.D represents AGI Universal Sampler 12345678).

General Comments

Soil Gas Sampling

For soil gas sampling, the AGI Environmental Survey reports mass levels migrating through the open pore spaces of the soil and diffusing through the sampler membrane for sorption by the engineered, hydrophobic adsorbents, housed within the membrane tube. During the migration of the soil gas away from the source to the AGI Universal Sampler, the vapors are subject to a variety of attenuation factors. The soil gas masses reported on the samplers compare favorably with the concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels to other sampled locations on the site, the matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.

Soil gas concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Soil gas signals reported by this method cannot be correlated specifically to soil adsorbed, groundwater, and /or free-phase contamination. The soil gas signal reported from each AGI Universal Sampler can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).

Air Sampling

For indoor, outdoor, and crawlspace air sampling, the AGI Environmental Survey reports mass levels present in the air and diffusing through the sampler membrane for sorption by the engineered adsorbents housed within the membrane tube.

Air concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Groundwater and Sediment Porewater Sampling

For groundwater and sediment porewater sampling, the AGI Environmental Survey reports the mass levels of compounds present in the water which, when coming in contact with the sampler membrane, partitions out of solution, and diffuses through the sampler membrane for sorption by the engineered adsorbents.

Water concentrations (µg/L) are calculated using the quantified mass, exposure period and the compound specific uptake rate. The rates were measured under controlled experimental conditions. The uptake rates are corrected for water pressure (depth of the AGI Universal Sampler below the water table), water temperature and the aquifer flow rate. For sediment porewater, the uptake rate is corrected for the reduced volume of water in the sediment, by multiplying the uptake rate by the pore water fraction.

Laboratory Sample Report

AGI Sample ID	Field ID	Sample Type
00803017	Location 5	FIELD_SAMPLE
00803018	Location 4	FIELD_SAMPLE
00803019	Location 17	FIELD_SAMPLE
00803020	Location 3	FIELD_SAMPLE
00803021	Location 2	LOST
00803022	Location 1	FIELD_SAMPLE
00803023	Location 6	FIELD_SAMPLE
00803024	Location 15	FIELD_SAMPLE
00803025	Location 13	FIELD_SAMPLE
00803026	Location 14	FIELD_SAMPLE
00803027	Damaged	LOST
00803028	Location 9	FIELD_SAMPLE
00803029	Location 10	FIELD_SAMPLE
00803030	Location 16	FIELD_SAMPLE
00803031	Location 8	FIELD_SAMPLE
00803032	Location 18	FIELD_SAMPLE
00803033	Location 7	FIELD_SAMPLE
00803034	Location 11	FIELD_SAMPLE
00803035	Location 20	FIELD_SAMPLE
00803036	Location 19	FIELD_SAMPLE
00803037	Location 12	FIELD_SAMPLE
00803038	Trip Blank	TRIP_BLANK

Total # Field Samples: 19
Total # Trip Blanks: 1
Total # Lost: 2
Total # Unused: 0

AMPLIFIED GEOCHEMICAL IMAGING LLC

210 Executive Drive
Newark, Delaware 19702 USA
ph: +1-302-266-2428
www.agisurveys.net

AGI Universal Passive Sampler Chain of Custody
Soil gas and/or Air Sampling

Production Order #: 02112

Customer Name: Environmental Partners, Inc

Address: 1180 NW Maple Street
Suite 310
Issaquah, WA 98027
USA

Site Name: 69402.2 - Skotdal

Site Address: Avenue D and 13th St SE
Snohomish, WA

Project Manager: Josh Bernthal

Serial # of Samplers Shipped
00803017 - 00803038

# of Samplers for Installation: 20
Total Samplers Shipped: 22 Pieces
Total Samplers Received: 22 Pieces
Total Samplers Installed: 20 Pieces

# of Trip Blanks: 2 Pieces

Serial # of Trip Blanks (Client Decides)

00803038	* One of the samplers was damaged in the field, so 2nd blank replaced the sampler.

Insertion Rods

Tips Shipped: 1

Rod Bodies Shipped: 4

Prepared By: Ian McMullen

Verified By: [signature]

Installation Method: ~~(Circle those that apply)~~
Slide Hammer (Hammer Drill) Auger
Other

Installation Performed By:
Name: Nate Dorfner
Company: Environmental Partners, Inc.

Retrieval Performed By:
Name: Nate Dorfner
Company: Environmental Partners, Inc.

Installation Start Date / Time: 5/16/19 7:45 AM
Installation Complete Date / Time: 5/17/19 11:00 AM

Retrieval Start Date / Time: 5/24/19 7:35 AM
Retrieval Complete Date / Time: 5/24/19 10:06 AM

Total Samplers Retrieved: 19
Total Samplers Lost In Field: 1
Total Unused Samplers Returned: N/A

Insertion Rod Sections Returned: 5

Relinquished By: [signature] Date/Time: 5/14/19
Company: AGI 11:00am

Received By: Nate Dorfner Date/Time: 5/15/19
Company: EPI 2:00 PM

Relinquished By: Nate Dorfner Date/Time: 5/28/19
Company: EPI 6:45 PM

Received By: [signature] Date/Time: 5/31/19
Company: AGI 10:47 am

AMPLIFIED GEOCHEMICAL IMAGING, LLC

210 Executive Drive, Suite 1
Newark, DE USA 19702-3335
ph: 302-266-2428

AGI Project No. 02112
Site Name: 69402.2 - Skotdal
Site Location: Avenue D & 13th Avenue SE, Snohomish, WA 98290

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: Environmental Partners, Inc
Location: Issaquah, WA 98027
Samples collected by: Nate Dorfner

*** Optional or as needed**

SAMPLER SERIAL NO.	FIELD ID* (e.g., arbitrary, US EPA)	SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)	INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/27/2000 13:00	RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00	OBSERVATIONS/COMMENTS* (e.g., sample depth, location description, missing, pulled from hole, etc. - as needed)	SAMPLE ENVIRONMENT* (e.g., grass, bare soil, through slab)	YES / NO		
							EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?	ODOR ?	WATER IN INSTALLATION HOLE?
00803017	Location 5	FIELD_SAMPLE	5/16/19 9:45	5/24/19 9:05		beneath asphalt parking lot	No		
00803018	Location 4	FIELD_SAMPLE	5/16/19 9:05	5/24/19 8:10		beneath asphalt parking lot	No	No	No
00803019	Location 17	FIELD_SAMPLE	5/16/19 8:50	5/24/19 7:50		beneath asphalt parking lot	No	No	No
00803020	Location 3	FIELD_SAMPLE	5/16/19 8:30	5/24/19 8:00		beneath asphalt parking lot	No	No	No
00803021	Location 2	FIELD_SAMPLE	5/16/19 8:05		Cork/sampler removed prior to retrieval	beneath asphalt parking lot	No	No	No
00803022	Location 1	FIELD_SAMPLE	5/16/19 7:52	5/24/19 8:17		beneath asphalt parking lot	No	No	No
00803023	Location 6	FIELD_SAMPLE	5/16/19 10:00	5/24/19 8:58		beneath asphalt parking lot	No	No	No
00803024	Location 15	FIELD_SAMPLE	5/16/19 10:25	5/24/19 9:32		beneath asphalt parking lot	No	No	No
00803025	Location 13	FIELD_SAMPLE	5/16/19 10:45	5/24/19 9:18		beneath asphalt parking lot	No	No	No
00803026	Location 14	FIELD_SAMPLE	5/16/19 10:55	5/24/19 9:24		beneath asphalt parking lot	No	No	No
00803027	N/A	FIELD_SAMPLE			Sampler broke in field, so Sampler Serial No. 00803037 replaced it.	beneath asphalt parking lot	No	No	No
00803028	Location 9	FIELD_SAMPLE	5/16/19 11:35	5/24/19 9:50		beneath asphalt parking lot	No	No	No
00803029	Location 10	FIELD_SAMPLE	5/16/19 11:55	5/24/19 10:06		beneath asphalt parking lot	No	No	No
00803030	Location 16	FIELD_SAMPLE	5/16/19 12:10	5/24/19 9:40		beneath asphalt parking lot	No	No	No
00803031	Location 8	FIELD_SAMPLE	5/16/19 12:25	5/24/19 10:01		beneath asphalt parking lot	No	No	No
00803032	Location 18	FIELD_SAMPLE	5/16/19 12:50	5/24/19 9:56		beneath asphalt parking lot	No	No	No
00803033	Location 7	FIELD_SAMPLE	5/17/19 9:10	5/24/19 8:40		beneath asphalt parking lot	No	No	No
00803034	Location 11	FIELD_SAMPLE	5/17/19 9:25	5/24/19 8:48		beneath asphalt parking lot	No	No	No
00803035	Location 20	FIELD_SAMPLE	5/17/19 9:45	5/24/19 8:33		beneath asphalt parking lot	No	No	No
00803036	Location 19	FIELD_SAMPLE	5/17/19 10:00	5/24/19 8:53		beneath asphalt parking lot	No	No	No
00803037	Location 12	TRIP_BLANK	5/17/19 10:20	5/24/19 9:11		beneath asphalt parking lot	No	No	No
00803038	Location	TRIP_BLANK							

SPG-FCD-8929 Soil Gas R6

AMPLI
GEOC
I MAG

AGI Soil Gas Sampling
Installation & Retrieval Log

*** Optional or as needed**

	AT MINIMUM PROVIDE SOIL TYPE						
SAMPLER SERIAL NO.	SOIL TYPE AT MODULE DEPTH (clay, loamy sand etc.)	TOTAL SOIL POROSITY AT MODULE DEPTH* (total volume of pores/total volume)	WATER FILLED SOIL POROSITY AT MODULE DEPTH* (volume of water/volume of pores)	PROJECTED COORDINATES X (EASTING)	PROJECTED COORDINATES Y (NORTHING)	COORDINATE SYSTEM* (e.g., UTM Zone, Stateplane, etc.)	COORDINATE DATUM* (e.g., WGS 84)
00803017	SAND						
00803018	SAND						
00803019	SAND						
00803020	SAND						
00803021	SAND						
00803022	SAND						
00803023	SAND						
00803024	SAND						
00803025	SAND						
00803026	SAND						
00803027	SAND						
00803028	SAND						
00803029	SAND						
00803030	SAND						
00803031	SAND						
00803032	SAND						
00803033	SAND						
00803034	SAND						
00803035	SAND						
00803036	SAND						
00803037	SAND						
00803038							

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
ENVOIRONMENTAL PARTNERS, ISSAQUAH, WA
AGI TARGET COMPOUNDS
69402.2 - SKOTDAL
ORDER #02112

DATAFILE	FIELD	DATE/ TIME													
NAME	ID	ANALYZED	DF	TPH, ug	VC, ug	MTBE, ug	11DCE, ug	t12DCE, ug	11DCA, ug	c12DCE, ug	CHCl3, ug	111TCA, ug	12DCA, ug	BENZ, ug	CCl4, ug
RL=				0.50	0.20	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
803017	Location 5	6/14/2019	1	6.54	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803018	Location 4	6/14/2019	1	8.98	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02
803019	Location 17	6/14/2019	1	<0.50	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803020	Location 3	6/14/2019	1	42.4	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02
803022	Location 1	6/14/2019	1	14.7	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02
803023	Location 6	6/14/2019	1	1.73	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803024	Location 15	6/14/2019	1	10.0	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
803025	Location 13	6/14/2019	1	4.98	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803026	Location 14	6/14/2019	1	2.59	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803028	Location 9	6/14/2019	1	6.28	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803029	Location 10	6/14/2019	1	34.2	<0.20	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	0.03	<0.02
803030	Location 16	6/14/2019	1	15.7	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803031	Location 8	6/14/2019	1	21.1	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803032	Location 18	6/14/2019	1	<0.50	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803033	Location 7	6/14/2019	1	<0.50	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803034	Location 11	6/14/2019	1	4.13	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803035	Location 20	6/14/2019	1	1.75	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803036	Location 19	6/14/2019	1	1.22	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803037	Location 12	6/14/2019	1	1.36	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803038	Trip Blank	6/14/2019	1	<0.50	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
BLK-1	Method Blank	6/14/2019	1	<0.50	<0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
ENVOIRONMENTAL PARTNERS, ISSAQUAH, WA
AGI TARGET COMPOUNDS
69402.2 - SKOTDAL
ORDER #02112

DATAFILE														
NAME	TCE, ug	112TCA, ug	TOL, ug	OCT, ug	PCE, ug	ClBENZ, ug	1112TetCA, ug	ETBENZ, ug	mpXYL, ug	oXYL, ug	1122TetCA, ug	135TMB, ug	124TMB, ug	13DCB, ug
RL=	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
803017	<0.02	<0.02	<0.02	0.09	<0.02	<0.02	<0.02	0.18	0.76	0.37	<0.02	<0.02	<0.02	<0.02
803018	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	0.06	0.28	0.13	<0.02	<0.02	<0.02	<0.02
803019	<0.02	<0.02	<0.02	<0.02	2.13	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.29	1.22	0.53	<0.02	<0.02	<0.02	<0.02
803022	<0.02	<0.02	<0.02	0.08	<0.02	<0.02	<0.02	0.20	0.66	0.36	<0.02	<0.02	<0.02	<0.02
803023	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	0.12	0.05	<0.02	<0.02	<0.02	<0.02
803024	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.18	0.09	<0.02	<0.02	<0.02	<0.02
803025	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	0.03	0.18	0.07	<0.02	<0.02	<0.02	<0.02
803026	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803028	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	0.12	0.55	0.24	<0.02	<0.02	<0.02	<0.02
803029	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.02	0.35	1.46	0.77	<0.02	<0.02	<0.02	<0.02
803030	<0.02	<0.02	<0.02	0.07	<0.02	<0.02	<0.02	0.55	2.41	1.17	<0.02	<0.02	<0.02	<0.02
803031	<0.02	<0.02	<0.02	0.05	0.45	<0.02	<0.02	0.36	1.44	0.94	<0.02	<0.02	0.02	<0.02
803032	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803033	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803034	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.08	0.53	0.23	<0.02	<0.02	<0.02	<0.02
803035	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803036	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
803037	<0.02	0.42	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.03	<0.02	<0.02	<0.02	<0.02
803038	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
BLK-1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
ENVOIRONMENTAL PARTNERS, ISSAQUAH, WA
AGI TARGET COMPOUNDS
69402.2 - SKOTDAL
ORDER #02112

DATAFILE										
NAME	14DCB, ug	12DCB, ug	UNDEC, ug	NAPH, ug	TRIDEC, ug	2MeNAPH, ug	Acenaphthylene, ug	PENTADEC, ug	Acenaphthene, ug	Fluorene, ug
RL=	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
803017	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	0.20
803018	<0.02	<0.02	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803019	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803020	<0.02	<0.02	0.08	1.17	<0.05	0.95	<0.05	<0.05	4.00	1.97
803022	<0.02	<0.02	0.13	0.14	<0.05	0.15	<0.05	<0.05	1.20	0.46
803023	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803024	<0.02	<0.02	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
803025	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803026	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.06
803028	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803029	<0.02	<0.02	0.34	0.17	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803030	<0.02	<0.02	0.12	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803031	<0.02	<0.02	0.24	0.52	<0.05	<0.05	<0.05	<0.05	0.07	<0.05
803032	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803033	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803034	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803035	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803036	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	0.12
803037	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
803038	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BLK-1	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

KEY TO DATA TABLE

UNITS

µg	micrograms, relative mass value
µg/m^3	micrograms per cubic meter; estimated soil gas concentration
µg/L	micrograms per Liter; calculated water concentration

DATA QUALIFIERS

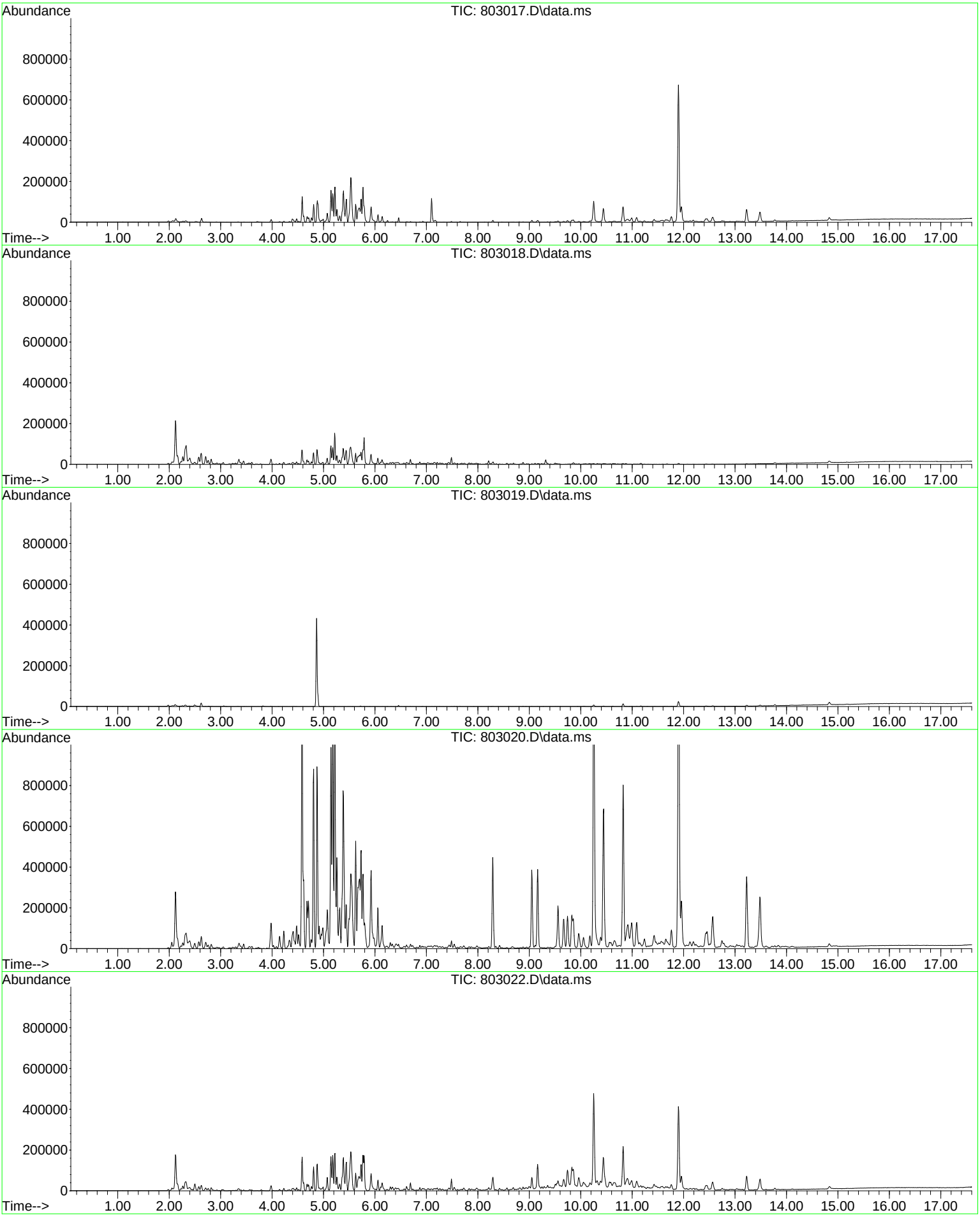
>	greater than; value exceeds calibration range, estimated value
<	less than; compound value is below the LOD and RL
J	mass value below LOQ or RL, but above LOD, estimated mass value
E	mass value exceeds upper calibration level, estimated mass value
Q	one or more quality control parameters failed for the compound

ABBREVIATIONS

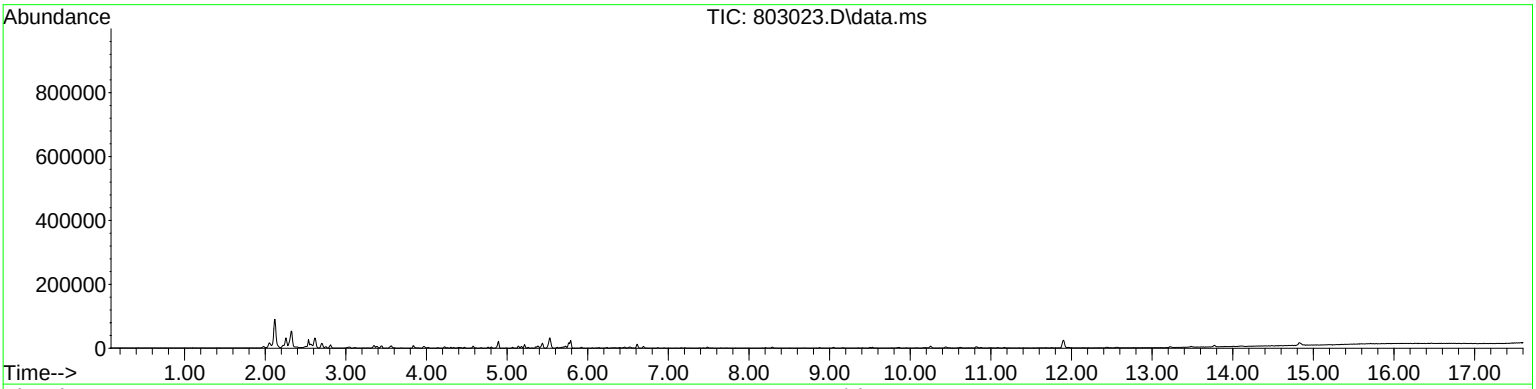
AVG RL	average reporting limit; calculated based on individual field sample RLs
LOD	limit of detection
LOQ	limit of quantification
MDL	method detection limit
RL	reporting limit

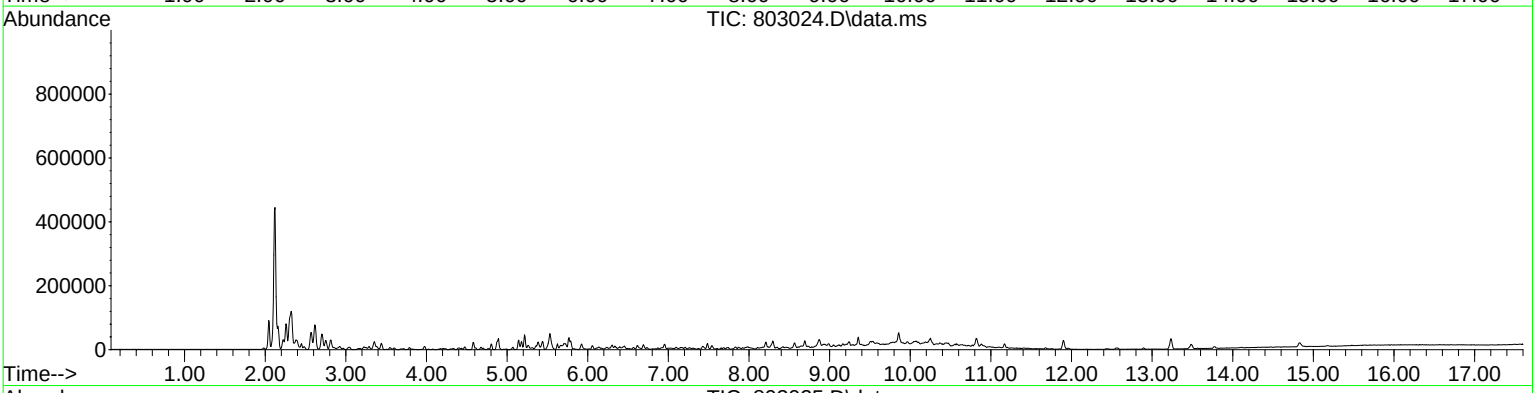
1112TetCA	1,1,1,2-tetrachloroethane
111TCA	1,1,1-trichloroethane
1122TetCA	1,1,2,2-tetrachloroethane
112TCA	1,1,2-trichloroethane
11DCA	1,1-dichloroethane
11DCE	1,1-dichloroethene
124TMB	1,2,4-trimethylbenzene
12DCA	1,2-dichloroethane
12DCB	1,2-dichlorobenzene
135TMB	1,3,5-trimethylbenzene
13DCB	1,3-dichlorobenzene
14DCB	1,4-dichlorobenzene
2MeNAPH	2-methyl naphthalene
BENZ	benzene
BTEX	combined masses of benzene, toluene, ethylbenzene, and total xylenes (Gasoline Range Aromatics)
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
c12DCE	cis-1,2-dichloroethene
CCl4	carbon tetrachloride
CHC13	chloroform
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
MTBE	methyl t-butyl ether
NAPH	naphthalene
OCT	octane
oXYL	o-xylene
PCE	tetrachloroethene
PENTADEC	pentadecane
SSRPH	Stoddard solvent range petroleum hydrocarbons
t12DCE	trans-1,2-dichloroethene
TCE	trichloroethene
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
TOL	toluene
TPH	total petroleum hydrocarbons
TRIDEC	tridecane
UNDEC	undecane
VC	vinyl chloride

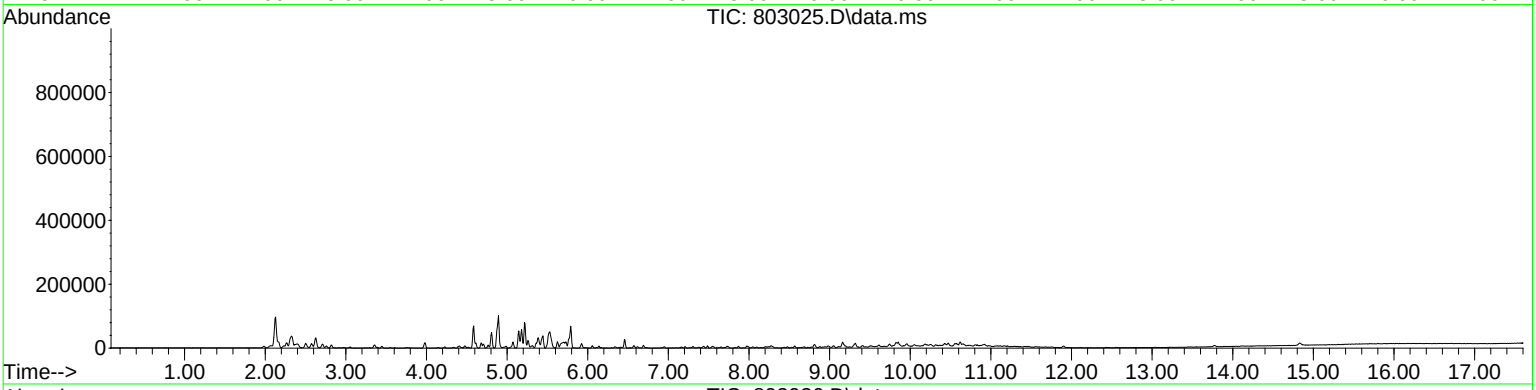
TICs-02112
In Numerical Order

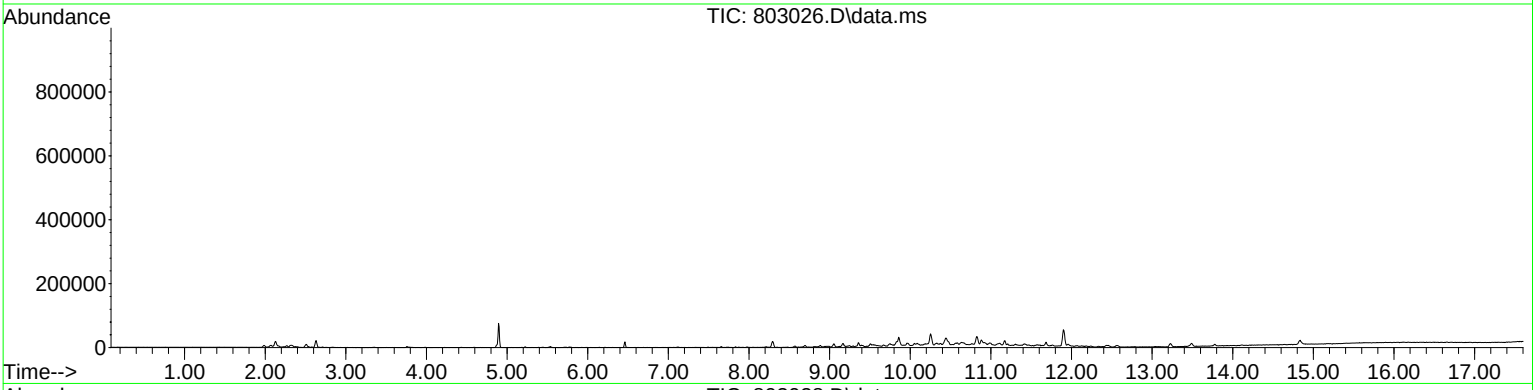


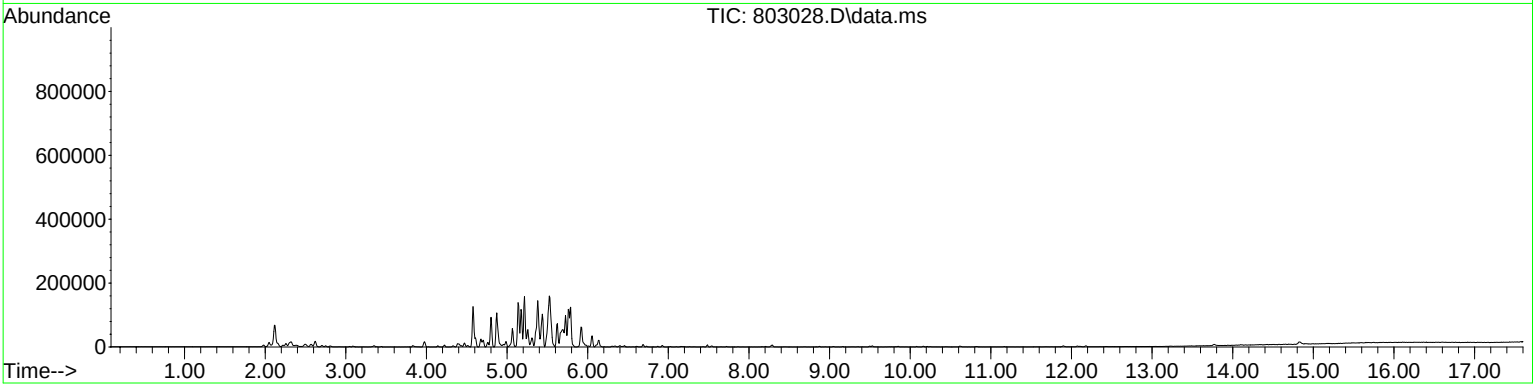
TICs-02112
In Numerical Order











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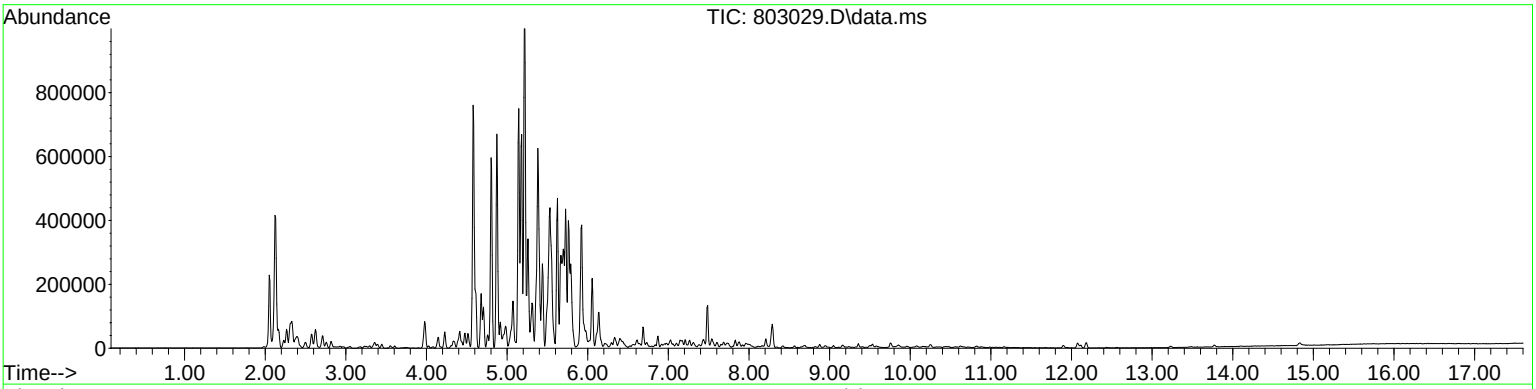
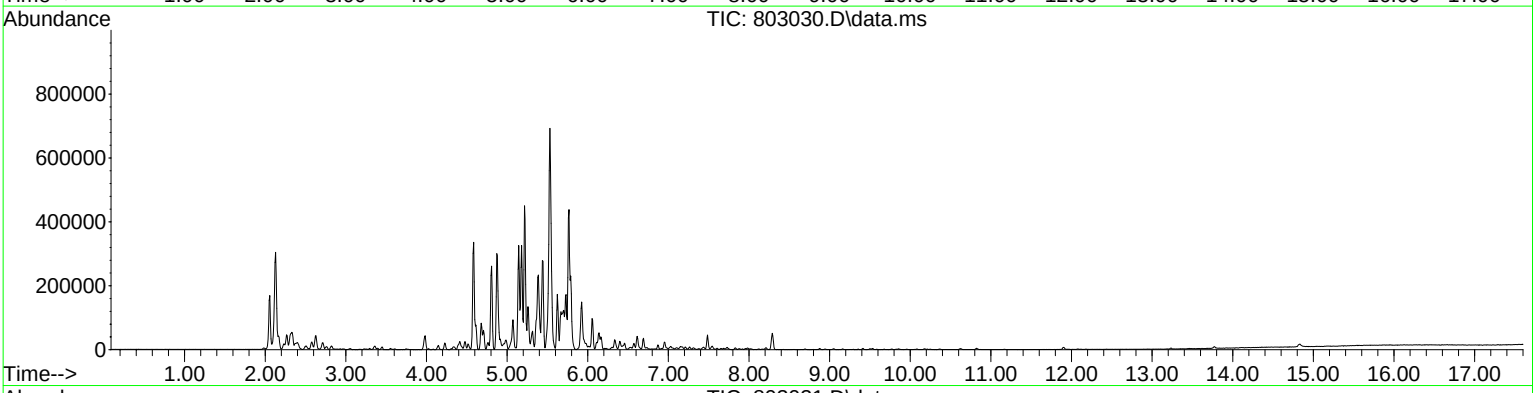
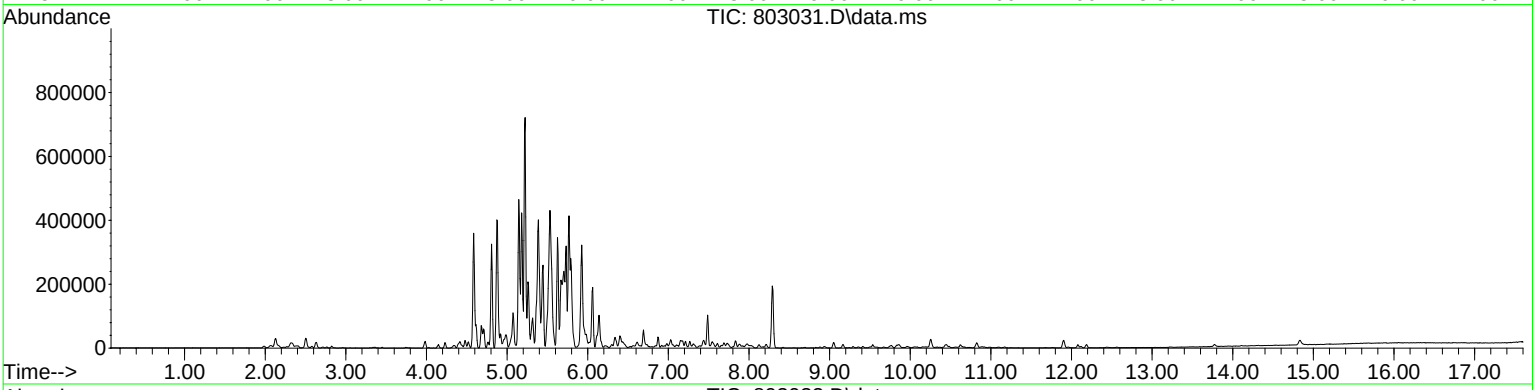
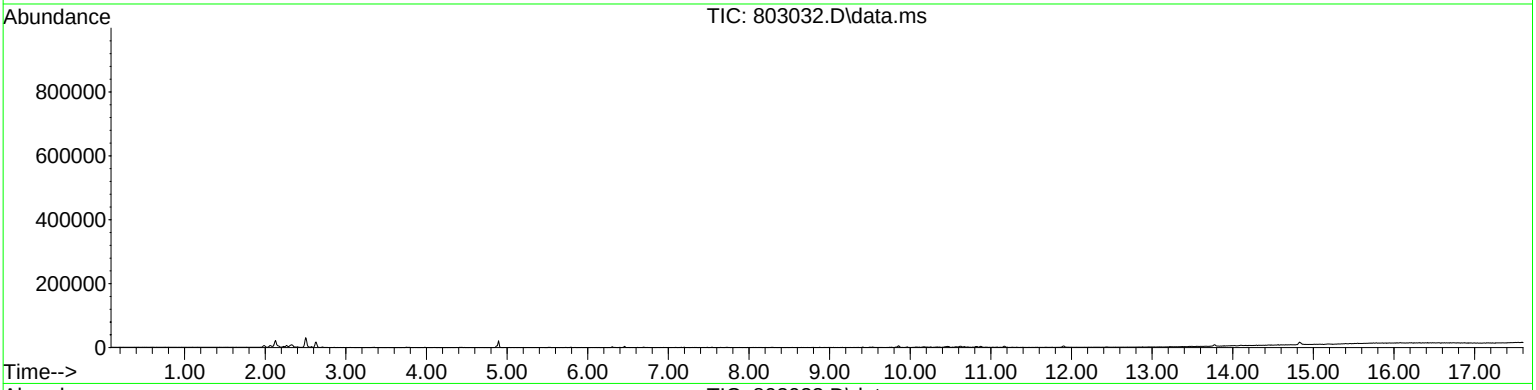
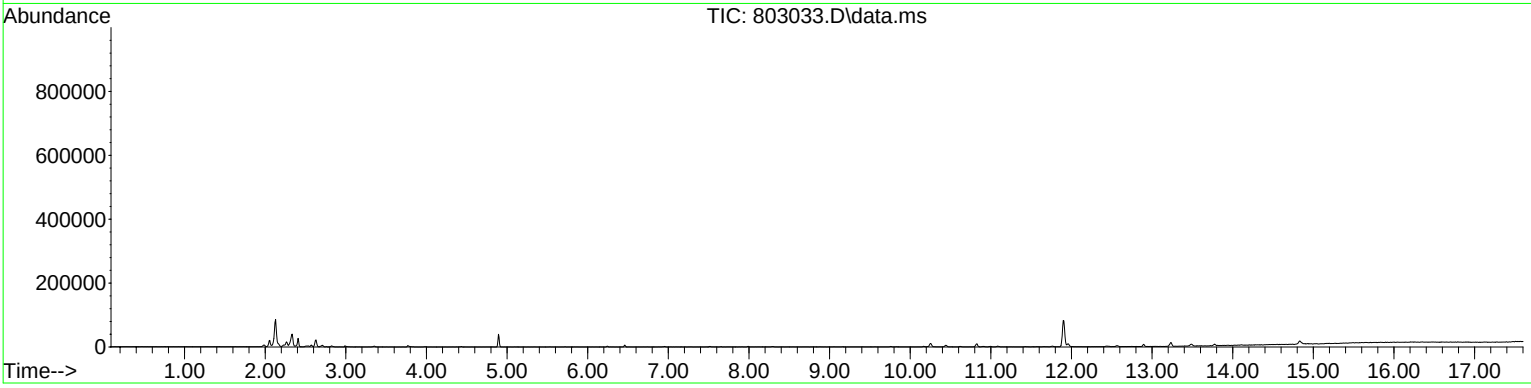


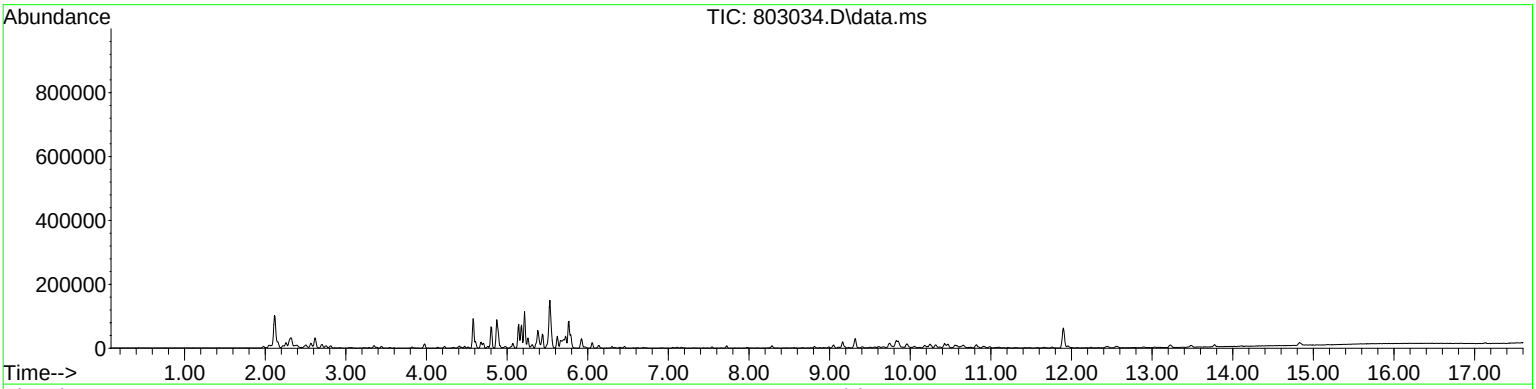


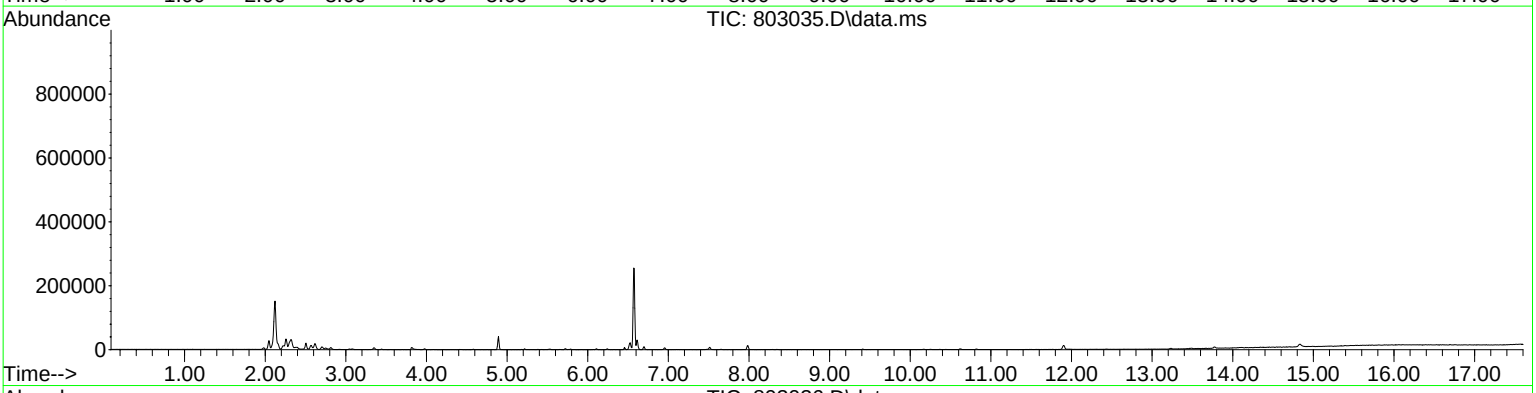


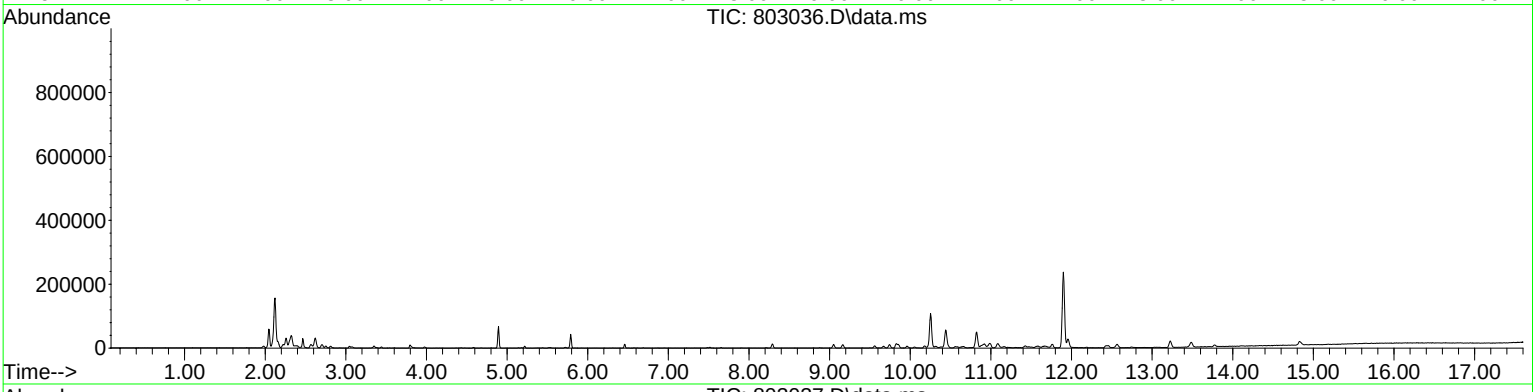


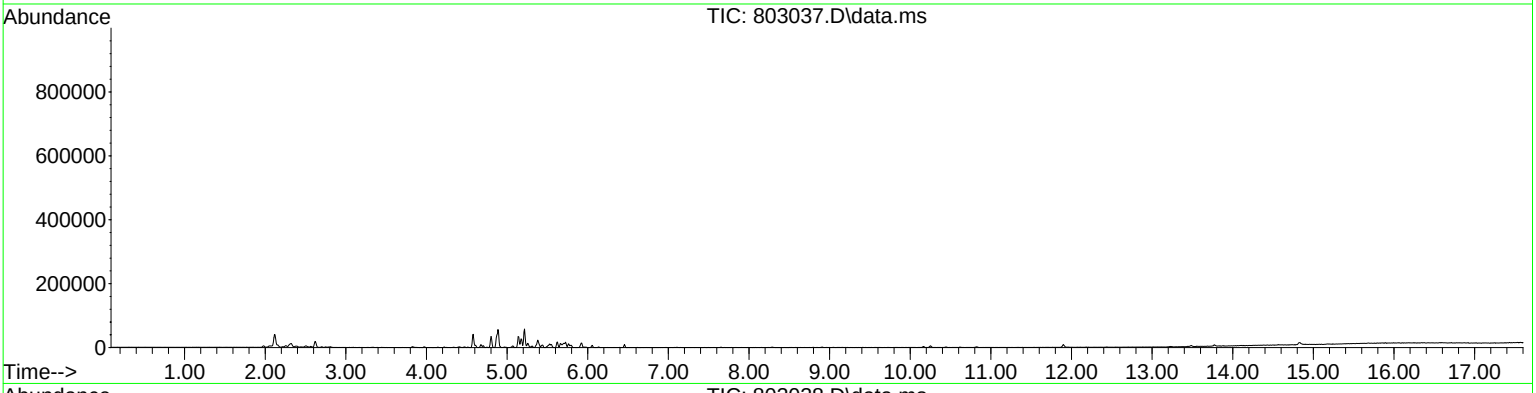


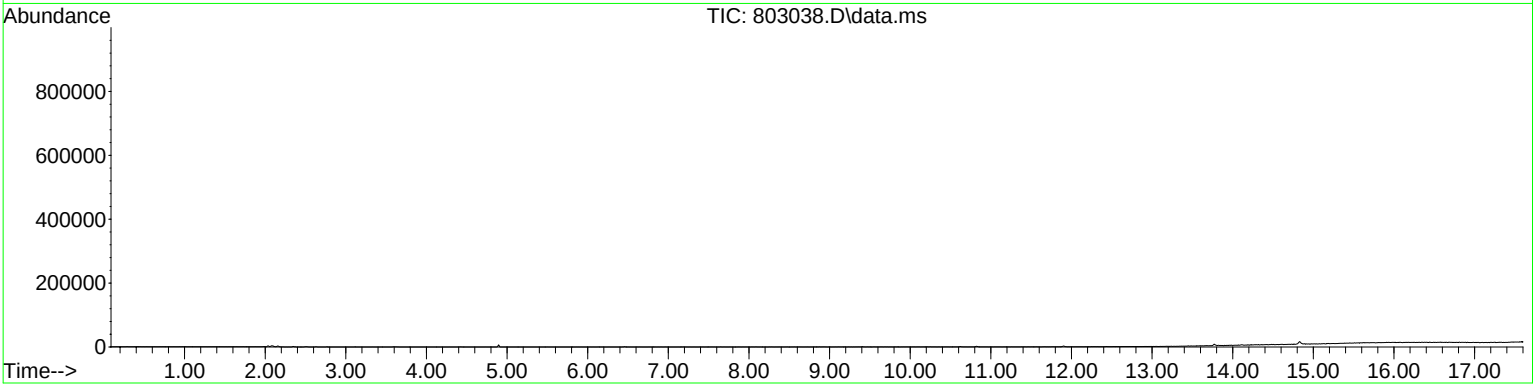
TICs-02112
In Numerical Order











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AMPLIFIED GEOCHEMICAL IMAGING, LLC

Mapping Report

Site: 69402.2 - Skotdal

Prepared for:

Environmental Partners, Inc.
1180 NW Maple Street
Suite 310
Issaquah, WA 98027
USA

Prepared on:

September 16, 2019

Project Summary

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

69402.2 - Skotdal

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described for the requested organic compounds, and reporting of the data. A Laboratory Report was issued previously which summarized the field sampling and analytical procedures, and contained the sample results.

Normally, the maps are scaled to print on a page size of 11 x 17 inches; other sizes are available upon request. General and project specific comments on the contouring and mapping can be found on the next page.

Maps prepared by:

Ray Fenstermacher, P.G.
Project Manager

Maps reviewed/approved by:

Scott Kirlin
Inside Sales/Assistant Project Manager

General Comments

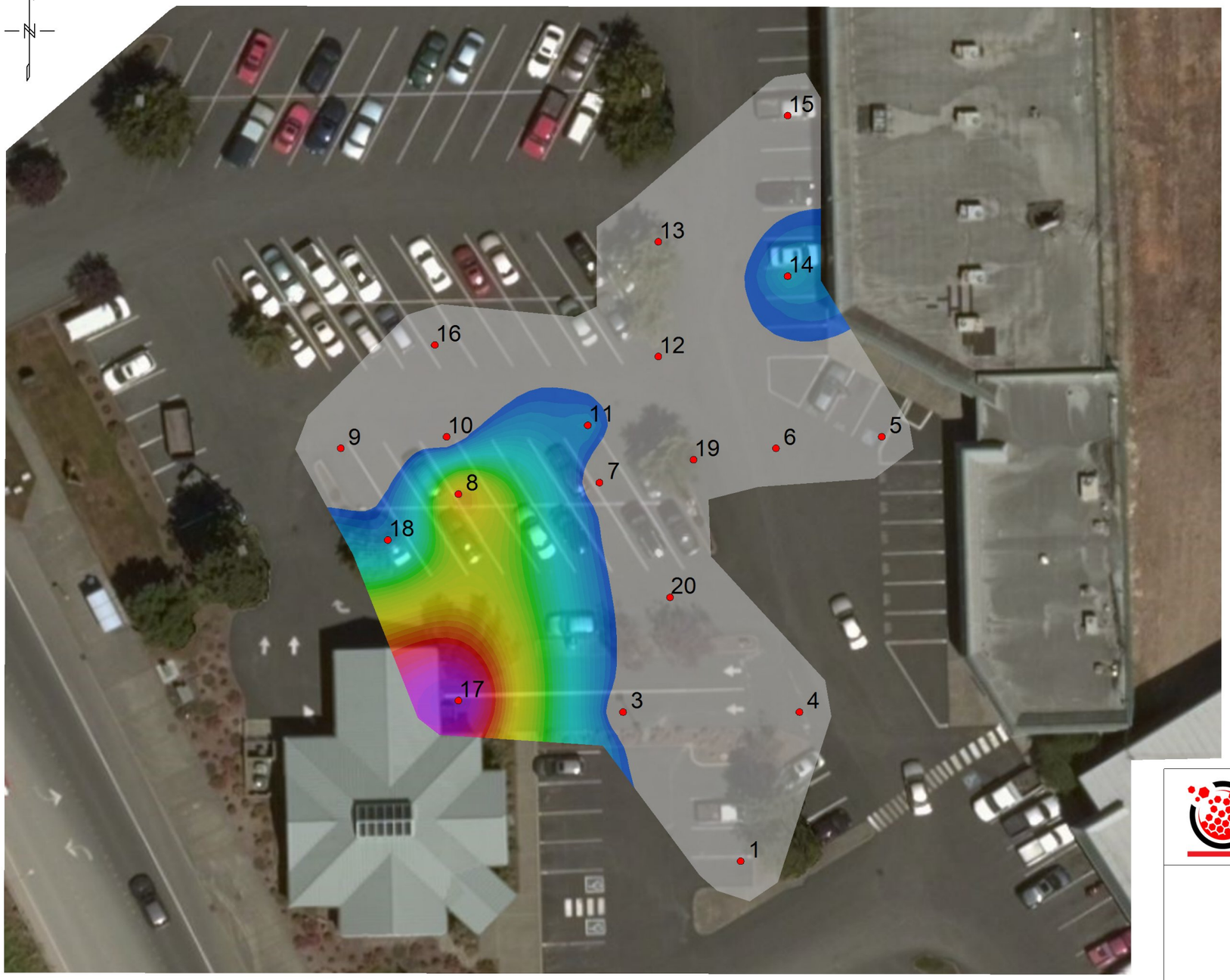
A minimum curvature algorithm was used to interpolate the data from the sample locations to a regularly-spaced grid. The resulting surface is considered to be the smoothest possible surface that will fit the observed values at each sample location (i.e., data honoring). The interpolation is performed in log space, with grid cell sizes approximately one-tenth the average distance between sample locations. For example, when AGI Universal Samplers are placed about 50 feet apart, the grid cell size is set to five feet.

Where observations trend from lower to higher values, and moving towards the edge of the area sampled, the contour surface will continue to rise (showing warmer colors) as no additional data exist to constrain the interpolation. Where observations trend from high to low, towards the edge of the area sampled, the opposite is true.

Contour minimums and maximums used in the color interval assignment are established based on the QA blank levels (trip and method blanks), method detection limits, and maximum values observed. The minimum contour level (gray color) is established using the maximum QA blank level or method detection limit, whichever is greater, per compound or groups of compounds . The maximum contour level is set at the maximum value observed, per compound or groups of compounds. Contour interval assignments can be modified at the client's request.

Project Specific Comments

None.



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1.336
1.058
0.837
0.663
0.525
0.416
0.329
0.261
0.206
0.163
0.129
0.102
0.081
0.064
0.051
0.040
0.032
0.025
0.020

PCE
[µg]

Scale 1:400

5 0 5 10 15 20 25

(meters)

WGS 84 / UTM zone 10N

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Environmental Partners, Inc.
69402.2 - Skotdal
Tetrachloroethene

DATE DRAWN: Aug 20, 2019	**DRAWN BY: RF**	**ORIG. CAD: Google Earth image**
REV. DATE:	**REV. #:**	**PROJECT NUMBER: 02112**

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cis-1,2-DCE
[µg]

Scale 1:400

5 0 5 10 15 20 25
(meters)
WGS 84 / UTM zone 10N

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Environmental Partners, Inc.
69402.2 - Skotdal
cis-1,2-Dichloroethene

DATE DRAWN: Aug 20, 2019	**DRAWN BY: RF**	**ORIG. CAD: Google Earth image**
REV. DATE:	**REV. #:**	**PROJECT NUMBER: 02112**

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