Air Assessment Report
January 2025 Sampling
Former Ellis Dry Cleaners
Portland, Oregon
ECSI No. 5612

Prepared for:
Oregon Department of Environmental Quality
Task Order No. 066-23-11

June 27, 2025
32-24005460/Task 3

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1.0 Introduction

This report presents the results of ambient air and soil vapor sampling conducted from January 25 through January 31, 2025, to support the soil vapor and indoor air assessment associated with the former Ellis Dry Cleaners site (the Site) located at 3300 North Williams Avenue in Portland, Oregon (see Figures 1 and 2). This report was prepared for the Oregon Department of Environmental Quality (DEQ) under Task 3 of Task Order No. 066-23-11.

1.1 Background

The Site operated as a dry-cleaning facility from 1950 to 1986. In 1996, the City of Portland Brownfields Program conducted a site investigation to determine the extent of the tetrachloroethene (PCE) contamination in soil and soil vapor at the property. In 2011, the City of Portland contacted DEQ to discuss entry into the Voluntary Cleanup Program for additional site characterization and cleanup. Following review of the site characterization data, DEQ issued an orphan declaration in September 2011. In March 2013, 3300 N Williams Avenue, LLC acquired the property and negotiated a prospective purchaser agreement with DEQ. The terms of the agreement require the owners to reduce levels of PCE and associated breakdown products (i.e. trichloroethene [TCE], cis-1,2-dichloroethene [DCE], and vinyl chloride) to below the applicable risk-based concentrations (RBCs; DEQ, 2003; updated 2023) for the property.

On-Site Remediation by Others. To address soil vapor and soil impacts on the Former Ellis Dry Cleaners property, the current owners performed chemical oxidation soil treatments between July and September, 2013, and installed a soil vapor extraction (SVE) system that has been in operation at the Site since late October 2013. The SVE system was modified in July 2014 to replace the original vapor-phase carbon vessels with larger units (to allow increased system vacuum levels). As a result of this modification, on June 8, 2015, the vacuum levels were increased from less than 1 inch of water vacuum to about 30 inches of water vacuum. After several years of operation, the on-site SVE system was temporarily shut down as part of remediation confirmation testing in July 2018 and was restarted in April 2019. The onsite SVE system was again temporarily shut down in September 2020 and January 2021. A timer was installed on the SVE system in June 2021, and the system has subsequently operated between 8:00 a.m. and 5:00 p.m. daily, unless otherwise noted below.

A longer trial shut down of the SVE system was conducted from December 2022 through June 2023. During this time, an assessment of the SVE system was conducted. Additional SVE points were installed, and the system was modified to target soil vapor at depths that may not have been as readily influenced by the prior configuration of the system. The modified SVE system was restarted in June 2023 and continues to run from 8:00 a.m. to 5:00 p.m. daily.

Off-Site Actions by DEQ. DEQ has been responsible for addressing off-site impacts to the adjacent properties. To supplement the on-site extraction wells that were associated with the SVE system, three additional SVE wells were installed on the adjacent Liddy property (east of the Ellis property) on February 20, 2014. These new wells were intended to improve vapor capture between the vapor source area and the Liddy residence (thereby reducing the potential for vapor migration into the building). Apex Companies, LLC (Apex) connected these three wells to a common manifold header, and the manifold was then connected by others to the existing SVE system on the Ellis property. Operation of the SVE system was expected to be protective of the Liddy residence by removing contaminant vapors from the subsurface and capturing vapors that could otherwise migrate to the vicinity of the residence. It was determined that additional short-term improvements to indoor air quality in the Liddy residence could be realized by introducing tempered fresh air into the building while exhausting stale air from within the building. This was accomplished by the installation of a heat recovery ventilator (HRV) on the existing forced-air furnace in the Liddy residence basement (installed on March 17, 2014).

Five permanent off-site soil vapor monitoring locations were installed in the vicinity of the Ellis property on April 22, 2014. Four of the vapor points were installed to the south and west of the property, and a nested pair of monitoring points were installed at sample location 'J,' north of the Ellis Site. The 'J' monitoring points were temporarily removed on June 18, 2014, to accommodate job site trailers and parking for a construction project on the west side of Williams Avenue and were subsequently reinstalled on June 9, 2016, after the construction was complete.

Indoor air filter units were also historically placed in the basement of the Liddy residence and within the building located adjacent to the Site to the north (former Evol Twin). During the March 2017 sampling event, it was noted that the tenant at the former Evol Twin building was storing the air filter unit outside. Indoor air quality in the former Evol Twin building had been consistently acceptable since November 2013, and DEQ decided that the filter unit was no longer needed to be protective and could be removed from this location. The air filter unit was therefore collected by Apex staff in April 2017 and delivered to DEQ.

The HRV in the basement of the Liddy residence was turned off for two consecutive sampling events in November 2020 and January 2021 to test the effectiveness and need for continued remedial measures at the Site. Based on the results from these monitoring events, it was concluded that the ventilation improvements in the Liddy residence were no longer necessary, and the HRV was removed in June 2021. Details regarding the HRV system removal were documented in the *Ellis Dry Cleaners Interim Action – Heat Exchanger Removal Report* (Apex, 2021).

During the modification of the SVE system in 2023, the three SVE wells on the Liddy property were closed off, and vapor is no longer being extracted from these locations. This change has not affected indoor air quality. Indoor air quality has been consistently acceptable with respect to contaminants of concern in the Liddy residence since February 2018 including during periods when the SVE system was shut down.

1.2 Scope of Work

The work described in this report consists of the collection of ambient air and soil vapor samples in January 2025 from properties adjacent to the former Ellis Dry Cleaners site. Based on analytical results indicating a consistent lack of risk to off-site receptors as documented by previous years of monitoring, DEQ reduced the scope of sampling relative to prior events. Specifically, areas where two samples were located in relatively close proximity to each other were reduced to one sample, and the frequency was reduced from quarterly to semi-annual monitoring to capture the seasonal variation (wet versus dry seasons) observed in soil vapor PCE concentrations starting in July 2024.

The purpose of the sampling is to assess the current risk from vapor intrusion in buildings and the effectiveness of the vapor control system, and to allow a determination as to whether further remedial action may be needed.

The scope of work for this sampling event included:

- Collection of three ambient air samples:
  - One outdoor ambient air sample on the northeast boundary of the Site;
  - One indoor air sample in the basement of the Liddy residence, east of the Site;
  - One indoor air sample inside of the former Evol Twin building, north of the Site;
- Collection of seven soil vapor samples:
  - One sample from an SVE well on the Liddy property;
  - Two samples from north of the Site (point 'J'), between the Site and the former Evol Twin Building;
  - Three samples from vapor points located in the sidewalks southwest and south of the Site (includes one duplicate sample); and
- Analysis of the collected samples for volatile organic compounds (VOCs).

1.3 Deviations from Scope of Work

Sample VP-B was unable to be collected due to laboratory equipment malfunction.

2.0 Pre-Sampling Activities

Site Health and Safety Plan. A Site-specific health and safety plan (HASP) was previously prepared for the investigation activities (included in the Work Plan; Apex, 2013). The HASP was prepared in general

accordance with the Occupational Safety and Health Administration (OSHA) and the Oregon Administrative Rules (OAR). A copy of the HASP was maintained on-site during the field activities.

Property Access. DEQ previously obtained access rights to the properties to conduct the work. Apex coordinated with the property owners of the adjacent Liddy residence and former Evol Twin properties for access to complete the sampling.

3.0 Sampling and Maintenance Activities

3.1 Ambient Air Sampling

On January 24, 2025, Radiello RAD 130 passive ambient air samplers were deployed in the Liddy residence basement, former Evol Twin building, and background SVE locations, as shown on Figure 2. The three passive samplers were retrieved on January 31, 2025, for a total exposure period of seven days.

The range of barometric pressures recorded over the seven-day period was between 30.0 and 30.7 inches of mercury. The pressure was relatively steady over the period, beginning at 30.5 and ending at 30.2 inches of mercury. The exterior samples were housed in covers designed to protect them from direct contact with precipitation without obstructing airflow.

Each of the ambient air samples were collected at a height of approximately 4 feet above ground surface to represent the approximate breathing zone at the locations indicated on Figure 2.

3.2 Soil Vapor Sampling

On January 24, 2025, six soil vapor samples were collected in accordance with the Sampling and Analysis Plan (SAP) in Appendix B of the Work Plan (Apex, 2013). The soil vapor samples were each collected over a sampling interval of 30 minutes in 6-liter Summa canisters connected to the respective vapor points with new sample tubing. The SVE system was running during the sampling event; however, as noted in Section 1.1, there is no longer vacuum being applied to the three Liddy SVE wells. The sample locations are indicated on Figure 2.

4.0 Chemical Analyses and Results

Laboratory analyses for the soil vapor samples were performed by Pace Analytical under their laboratory services price agreement with the State of Oregon. Laboratory analysis of the Radiello ambient air samplers was performed by Eurofins Air Toxics of Folsom, California. The collected soil vapor and ambient air samples were packaged and shipped to the respective analytical laboratories following chain of custody protocol. Samples were analyzed on a standard turnaround time.

The soil vapor samples were analyzed for VOCs by Environmental Protection Agency (EPA) Method TO-15, and the ambient air samples (using the passive Radiello samplers) were analyzed by EPA Method TO-17. The laboratory reports and a quality assurance/quality control (QA/QC) review of the data are presented in Appendix A. The review determined that the data are of acceptable quality, with data qualifications flagged on the tables as appropriate.

4.1 Ambient Air Results

Ambient air analytical results are presented in Tables 1 and 2 and shown on Figure 3. Tables of historical data are included in Appendix B, as well as average values for background sample locations over time and trend plots of the historical data. Ambient air results are compared to the chronic and acute RBCs for air in residential and commercial settings (DEQ, 2003; updated 2023).

Liddy Residence. PCE was detected at 1.2 micrograms per cubic meter (µg/m^3) in the sample from the basement of the Liddy residence, well below the RBC of 11 µg/m^3. TCE was not detected above the laboratory method reporting limit (MRL). Benzene was detected at 0.92 µg/m^3 which is above the RBC of 0.36 µg/m^3. Benzene, the only compound detected above ambient air RBCs, is not associated with the historical dry-cleaning operations and was of similar concentration to benzene detected in the background sample as described below.

Following the improvements that were made to the SVE system in 2015, indoor air concentrations of PCE and TCE within the Liddy residence have consistently been significantly lower than historical concentrations (by at least one order of magnitude) and also well below the respective RBCs. During this event, PCE and TCE concentrations (1.2 µg/m^3 for PCE and not detected above the MRL of 0.14 µg/m^3 for TCE) are reductions of at least 98 percent compared to the historical highs for both PCE and TCE.

Former Evol Twin Print Shop. The Evol Twin sample was collected inside the building north of the Site. No analytes were detected above commercial ambient air RBCs. PCE was detected at 1.8 µg/m^3, which represents a slight decrease compared to the July 2024 sampling event. This concentration is well below the commercial RBC (47 µg/m^3) and the historical high (100 µg/m^3). TCE was not detected above the MRL.

Background Sample. An outdoor ambient air sample was collected to compare to indoor air samples as well as to distinguish between concentrations that are sourced from soil vapor in the vicinity of the building and those that are indicative of the regional air quality. The sample was collected adjacent to the SVE system (referred to as Background SVE).

PCE was detected in the background sample at a concentrations of 0.39 µg/m^3. This is below both residential and commercial RBCs. TCE was not detected above the MRL. Benzene was detected at 0.94 µg/m^3, which is above the residential RBC of 0.36 µg/m^3. As noted above, benzene is not associated with historical dry cleaning operations. The concentration in the Background SVE sample is similar to those found in both the

Liddy basement (0.92 µg/m^3) and Evol Twin (0.97 µg/m^3), suggesting that the benzene concentrations in indoor air samples are reflective of regional background concentrations. Contributions of benzene in outdoor ambient air are commonly associated with anthropogenic sources found in urban environments.

4.2 Soil Vapor Results

Soil vapor results are presented in Tables 3 and 4. Tables and trend plots of historical data collected at the Site are included in Appendix B.

Residential Vapor Points. A vapor sample was collected from the wellhead of the southernmost of the three SVE wells installed on the Liddy property (SV-12). The SVE system was operating during this sampling event; however, the wells on the Liddy property are closed off from the system, and no vapor is being extracted. No analytes were detected above the applicable RBCs in SV-12. The PCE concentration in SV-12 was 138 µg/m^3, below the chronic RBC for soil vapor in residential settings of 360 µg/m^3. PCE concentrations also remain consistently below historical highs (88,000 µg/m^3). TCE was not detected above the MRL.

Vapor point VP-D is located on the south side of Northeast Cook Street and adjacent to a property (10 Northeast Cook Street) that reportedly will be developed for mixed commercial and residential uses. PCE was detected at 50.7 µg/m^3, which is below residential RBCs. No analytes were detected above the applicable RBCs in VP-D.

TCE was not detected above the MRL. This is in line with historical concentrations that have generally been below or only slightly above the method detection limit, ranging from 0.36 µg/m^3 to 1.07 µg/m^3. During the previous monitoring event (July 2024), TCE was detected at the highest concentration since monitoring began (118 µg/m^3). The non-detect concentration observed during this monitoring event supports the theory that the elevated concentration from July 2024 was an abnormality and not indicative of an increasing concentration trend. Additional sampling should further confirm this conclusion.

Commercial Vapor Points. Vapor points VP-C and VP-J (5 and 15) are located on or adjacent to commercial properties and are therefore screened against commercial soil vapor RBCs (Figure 2). No analytes were detected at a concentration above the commercial soil vapor RBCs. TCE was not detected above the MRL in any of the commercial property samples, while PCE was detected in all three samples. The PCE concentration in VP-C (169 µg/m^3) is slightly lower than that of the July 2024 sampling event, while concentrations in VP-J (15) (551 µg/m^3) and VP-J (5) (5.79 µg/m^3) are slightly higher. The concentrations in all three points are well below the RBC for soil vapor in commercial settings (1,600 µg/m^3) and also well below historical high concentrations.

Duplicate Sample. As part of this event, a field duplicate sample was collected from sample point VP-D. The PCE concentrations in the primary and duplicate samples had a relative percent difference (RPD) of 0.4

percent (50.7 µg/m^3 and 50.5 µg/m^3, respectively) indicating a high rate of precision in sample collection and laboratory analysis. Additional data quality review discussion is included in Appendix A.

5.0 Conclusions

PCE concentrations in soil vapor and ambient air collected during the January 2025 event were similar or slightly higher than the concentrations of samples collected in July 2024. This is inconsistent with the typical seasonal variation that has been observed during previous events (higher concentrations have generally been observed during the warmer, dryer months). However, these concentrations are more than two orders of magnitude lower than historical high concentrations as shown on the trend plots included in Appendix B, and these local variations are relatively small. Continued monitoring is recommended to assess if the recent increase in PCE concentrations is indicative of a rising trend, or if the previous seasonal variation will return.

During the previous monitoring event (July 2024), a historically high concentration of TCE was observed in soil vapor location VP-D. These elevated results were not replicated during the January 2025 monitoring event, with TCE concentrations being below the MRL. DEQ is not aware of any construction activities that have begun at the south adjacent property near VP-D. Construction activities have the potential to exacerbate contamination or affect contaminant distributions by creating preferential pathways for vapors to migrate via utility corridors. DEQ has met with the 10 Northeast Cook Street property's project design team to relay DEQ's concerns regarding installation of subsurface utilities from the public right-of-way and potential impacts to the Site-related contamination. DEQ recommended the use of engineered mitigation techniques to prevent migration of contaminant vapors from the Site to the south adjacent property. According to the email from the senior project designer dated July 10, 2024, the Portland Water Bureau determined that controlled density fill or controlled low-strength material (flowable fill) would be acceptable to meet DEQ's recommendations. Monitoring of VP-D will continue until preferential pathway and vapor intrusion concerns for the proposed off-site development and existing homes are resolved.

6.0 References

Apex Companies, LLC (Apex). *Soil Gas and Indoor Air Assessment Work Plan, Former Ellis Dry Cleaners, Portland, Oregon.* August 9, 2013.

Apex. *Ellis Dry Cleaners Interim Action – Heat Exchanger Removal.* August 6, 2021.

Oregon Department of Environmental Quality. *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites*. September 22, 2003. Updated June 2023.

Table 1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy Basement	Background SVE	RBCair Residential	
Date	1/24/2025	1/24/2025	Chronic	Acute
VOCs by TO-17	Concentrations in µg/m^3			
Benzene	**0.92**	**0.94**	0.36	29
Carbon Tetrachloride	**0.29**	**0.28**	--	--
Chloroform	**0.23**	<0.13	--	--
Cyclohexane	**0.60**	**0.45**	6,300	--
1,4-Dichlorobenzene	<0.19	<0.19	--	--
1,2-Dichloroethane	<0.13	<0.13	--	--
Ethyl Benzene	**0.35**	**0.30**	1.1	22,000
Toluene	**2.9**	**1.7**	5,200	7,500
Styrene	<0.16	<0.16	1,000	21,000
Tetrachloroethene	**1.2**	**0.39**	11	41
1,1,1-Trichloroethane	<0.16	<0.16	--	--
Trichloroethene	<0.14	<0.14	0.48	2.1
m,p-Xylene	**1.2**	**0.99**	100	8,700
o-Xylene	**0.40**	**0.35**	100	8,700

Notes:

RBCair Residential = Risk-Based Concentrations for air in residential settings from Guide to Tables of Vapor Intrusion RBCs Based on EPA VISL Calculations, June 2023.

µg/m^3 = Micrograms per cubic meter.

Bold values indicate concentration detected above the minimum reporting limit.

Shaded values exceed chronic or acute air in residential settings risk based concentrations (RBC).

VOCs = Volatile organic compounds.

Samples were collected using Radiello 145 passive samplers and were analyzed by modified EPA Method TO-17.

-- = Not available.

Table 2
Ambient Air Analytical Results - Commercial
Former Ellis Dry Cleaners

Sample Location	Evol Twin	Background SVE	RBC_{air} Commercial	
Date	1/24/2025	1/24/2025	Chronic	Acute
VOCs by TO-17	Concentrations in µg/m^3			
Benzene	**0.97**	**0.94**	1.6	87
Carbon Tetrachloride	**0.31**	**0.28**	--	--
Chloroform	**0.17**	<0.13	--	--
Cyclohexane	**0.66**	**0.45**	26,000	--
1,4-Dichlorobenzene	<0.19	<0.19	--	--
1,2-Dichloroethane	<0.13	<0.13	--	--
Ethyl Benzene	**0.41**	**0.30**	4.9	66,000
Toluene	**2.1**	**1.7**	22,000	23,000
Styrene	<0.16	<0.16	4,400	63,000
Tetrachloroethene	**1.8**	**0.39**	47	120
1,1,1-Trichloroethane	<0.16	<0.16	--	--
Trichloroethene	<0.14	<0.14	3	6.3
m,p-Xylene	**1.3**	**0.99**	--	26,000
o-Xylene	**0.47**	**0.35**	440	26,000

Notes:

RBC_{air} Commercial = Risk-Based Concentrations for air in commercial settings from Guide to Tables of Vapor Intrusion RBCs Based on EPA VISL Calculations, June 2023.

µg/m^3 = Micrograms per cubic meter.

Bold values indicate concentration detected above the minimum reporting limit.

Shaded values exceed residential inhalation risk based concentrations (RBC).

VOCs = Volatile organic compounds.

Samples were collected using Radiello 145 passive samplers and were analyzed by modified EPA Method TO-17.

-- = Not available.

Table 3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-12	VP-B	VP-D	RBC_{sv}	
Depth (ft bgs)	10-20	5	5	Residential	
Date	1/24/2025	1/24/2025	1/24/2025	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m^3				
Acetone	<2.97	--	<2.97	--	2,100,000
Allyl Chloride	<0.626	--	<0.626	16	--
Benzene	<0.639	--	<0.639	12	970
Benzyl Chloride	<1.04	--	<1.04	1.9	8,000
Bromodichloromethane	<1.34	--	<1.34	2.5	--
Bromoform	<6.52	--	<6.52	85	--
Bromomethane	<0.776	--	<0.776	170	130,000
1,3-Butadiene	<4.43	--	<4.43	3.1	22,000
Carbon Disulfide	<1.24	--	<1.24	24,000	210,000
Carbon Tetrachloride	<1.26	--	<1.26	16	63,000
Chlorobenzene	<0.924	--	<0.924	1700	--
Chloroethane	<0.528	--	<0.528	140,000	1,300,000
Chloroform	<0.973	--	<0.973	4.1	16,000
Chloromethane	<0.413	--	<0.413	3,100	33,000
2-Chlorotoluene	<1.03	--	<1.03	--	--
Cyclohexane	<0.689	--	<0.689	210000	--
Dichlorodifluoromethane	**2.42**	--	**2.60**	--	--
1,2-Dibromoethane	<1.54	--	<1.54	0.16	--
1,2-Dichlorobenzene	<1.20	--	<1.20	7000	--
1,3-Dichlorobenzene	<1.20	--	<1.20	--	--
1,4-Dichlorobenzene	<1.20	--	<1.20	8.5	400,000
1,2-Dichloroethane	<0.810	--	<0.810	3.6	--
1,1-Dichloroethane	<0.802	--	<0.802	59	--
1,1-Dichloroethene	<0.793	--	<0.793	7,000	6,700
cis-1,2-Dichloroethene	<0.793	--	<0.793	1,400	--
trans-1,2-Dichloroethene	<0.793	--	<0.793	1,400	26,000
1,2-Dichloropropane	<0.924	--	<0.924	25	7,700
cis-1,3-Dichloropropene	<0.908	--	<0.908	--	--
trans-1,3-Dichloropropene	<0.908	--	<0.908	--	--
1,4-Dioxane	<2.27	--	<2.27	19	240,000
Ethanol	<4.71	--	<4.71	--	--
Ethylbenzene	<0.867	--	<0.867	37	730,000
4-Ethyltoluene	<0.982	--	<0.982	--	--
Trichlorofluoromethane	**1.56**	--	**1.29**	--	--
Dichlorodifluoromethane	**2.42**	--	**2.6**	3,500	--
1,1,2-Trichlorotrifluoroethane	<1.53	--	<1.53	170,000	--
1,2-Dichlorotetrafluoroethane	<1.40	--	<1.40	--	--
Heptane	<0.818	--	<0.818	14,000	--
Hexachloro-1,3-butadiene	<6.73	--	<6.73	4.3	--
n-Hexane	<2.22	--	<2.22	24,000	--

Please see notes at the end of the table.

Table 3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-12	VP-B	VP-D	RBC_{sv}	
Depth (ft bgs)	10-20	5	5	Residential	
Date	1/24/2025	1/24/2025	1/24/2025	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m^3				
Isopropylbenzene	<0.983	--	<0.983	14,000	--
Methylene Chloride	<0.694	--	<0.694	3,400	70,000
Methyl Butyl Ketone	<5.11	--	<5.11	1,000	--
2-Butanone (MEK)	<3.69	--	<3.69	170,000	170,000
4-Methyl-2-pentanone (MIBK)	<5.12	--	<5.12	100,000	--
Methyl methacrylate	<0.819	--	<0.819	24,000	--
Methyl Tert-Butyl Ether	<0.721	--	<0.721	360	270,000
Naphthalene	<3.30	--	<3.30	2.8	6,700
2-Propanol	<3.07	--	<3.07	7,000	110,000
Propene	<2.15	--	<2.15	100,000	--
n-Propylbenzene	<0.982	--	<0.982	35,000	--
Styrene	<1.70	--	<1.70	35,000	700,000
1,1,2,2-Tetrachloroethane	<1.37	--	<1.37	1.6	--
Tetrachloroethene	**138**	--	**50.7**	360	1,400
Tetrahydrofuran	<0.590	--	<0.590	70,000	--
Toluene	<1.88	--	<1.88	170,000	250,000
1,2,4-Trichlorobenzene	<4.66	--	<4.66	70	--
1,1,1-Trichloroethane	<1.09	--	<1.09	170,000	370,000
1,1,2-Trichloroethane	<1.09	--	<1.09	5.9	--
Trichloroethene	<1.07	--	<1.07	16	70
1,2,4-Trimethylbenzene	<0.982	--	<0.982	2,100	--
1,3,5-Trimethylbenzene	<0.982	--	<0.982	2,100	--
2,2,4-Trimethylpentane	<0.934	--	<0.934	--	--
Vinyl Chloride	<0.511	--	<0.511	5.6	43,000
Vinyl Bromide	<0.875	--	<0.875	6.2	--
Vinyl Acetate	<2.22	--	<2.22	7,000	6,700
m&p-Xylene	<1.73	--	<1.73	3,500	8,700
o-Xylene	<0.867	--	<0.867	3,500	8,700
TPH (GC/MS) Low Fraction	<826	--	<826	10,000	--

Notes:

RBC_{sv} Residential = Risk-Based Concentrations for soil vapor in residential settings from Guide to Tables of Vapor Intrusion RBCs Based on EPA VISL Calculations, June 2023.

µg/m^3 = Micrograms per cubic meter.

Bold values indicate concentration detected above the minimum reporting limit.

Shaded values exceed one or more RBC.

VOCs = Volatile organic compounds.

-- = Not available.

J+ = Data results are estimated values and may be biased high.

Table 4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-C	VP-J (5)	VP-J (15)	RBC_{sv}	
Depth (ft bgs)	5	5	15	Commercial	
Date	1/24/2025	1/24/2025	1/24/2025	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m^3				
Acetone	<2.97	<2.97	<2.97	--	6,300,000
Allyl Chloride	<0.626	<0.626	<0.626	68	--
Benzene	<0.639	<0.639	<0.639	52	2,900
Benzyl Chloride	<1.04	<1.04	<1.04	8.3	24,000
Bromodichloromethane	<1.34	<1.34	<1.34	11	--
Bromoform	<6.52	<6.52	<6.52	370	--
Bromomethane	<0.776	<0.776	<0.776	730	400,000
1,3-Butadiene	<4.43	<4.43	<4.43	14	67,000
Carbon Disulfide	<1.24	<1.24	<1.24	100,000	630,000
Carbon Tetrachloride	<1.26	<1.26	<1.26	68	190,000
Chlorobenzene	<0.924	<0.924	<0.924	7300	--
Chloroethane	<0.528	<0.528	<0.528	580,000	4,000,000
Chloroform	<0.973	<0.973	<0.973	18	50,000
Chloromethane	<0.413	<0.413	<0.413	13,000	100,000
2-Chlorotoluene	<1.03	<1.03	<1.03	--	--
Cyclohexane	<0.689	**3.09**	<0.689	880,000	--
Chlorodibromomethane	<1.70	<1.70	<1.70	--	--
1,2-Dibromoethane	<1.54	<1.54	<1.54	0.68	--
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	29000	--
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	--	--
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	37	1,200,000
1,2-Dichloroethane	<0.810	<0.810	<0.810	16.0	--
1,1-Dichloroethane	<0.802	<0.802	<0.802	260	--
1,1-Dichloroethene	<0.793	<0.793	<0.793	29,000	20,000
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	5,800	--
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	5,800	80,000
1,2-Dichloropropane	<0.924	<0.924	<0.924	110	23,000
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	--	--
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	--	--
1,4-Dioxane	<2.27	<2.27	<2.27	82	730,000
Ethanol	<4.71	<4.71	<4.71	--	--
Ethylbenzene	<0.867	<0.867	<0.867	160	2,200,000
4-Ethyltoluene	<0.982	<0.982	<0.982	--	--
Trichlorofluoromethane	**1.40**	**1.54**	**1.49**	--	--
Dichlorodifluoromethane	**2.80**	**2.74**	**6.48**	15,000	--
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	730,000	--
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	--	--
Heptane	<0.818	**4.07**	<0.818	58,000	--
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	19.0	--
n-Hexane	<2.22	**3.95**	<2.22	100,000	--

Please see notes at the end of the table.

Table 4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-C	VP-J (5)	VP-J (15)	RBC_{sv}	
Depth (ft bgs)	5	5	15	Commercial	
Date	1/24/2025	1/24/2025	1/24/2025	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m^3				
Isopropylbenzene	<0.983	<0.983	<0.983	58,000	--
Methylene Chloride	<0.694	<0.694	<0.694	41,000	210,000
Methyl Butyl Ketone	<5.11	<5.11	<5.11	4,400	--
2-Butanone (MEK)	<3.69	<3.69	<3.69	730,000	500,000
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	440,000	--
Methyl methacrylate	<0.819	<0.819	<0.819	100,000	--
Methyl Tert-Butyl Ether	<0.721	<0.721	<0.721	1,600	800,000
Naphthalene	<3.30	<3.30	<3.30	12.0	20,000
2-Propanol	<3.07	<3.07	<3.07	29,000	320,000
Propene	<2.15	<2.15	<2.15	440,000	--
n-Propylbenzene	<0.982	<0.982	<0.982	150,000	--
Styrene	<1.70	<1.70	<1.70	150,000	2,100,000
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	7.1	--
Tetrachloroethene	**169**	**5.79**	**551**	1,600	4,000
Tetrahydrofuran	<0.590	<0.590	<0.590	290,000	--
Toluene	<1.88	<1.88	<1.88	730,000	770,000
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	290	--
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	730,000	1,100,000
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	26.0	--
Trichloroethene	<1.07	<1.07	<1.07	100	210
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	8,800	--
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	8,800	--
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	--	--
Vinyl Chloride	<0.511	<0.511	<0.511	93.0	130,000
Vinyl Bromide	<0.875	<0.875	<0.875	27.0	--
Vinyl Acetate	<2.22	<2.22	<2.22	29,000	20,000
m&p-Xylene	<1.73	<1.73	<1.73	15,000	870,000
o-Xylene	<0.867	<0.867	<0.867	15,000	--
TPH (GC/MS) Low Fraction	<826	<826	<826	40,000	--

Notes:

RBC_{sv} Commercial = Risk-Based Concentrations for soil vapor in commercial settings from Guide to Tables of Vapor Intrusion RBCs Based on EPA VISL Calculations, June 2023.

µg/m^3 = Micrograms per cubic meter.

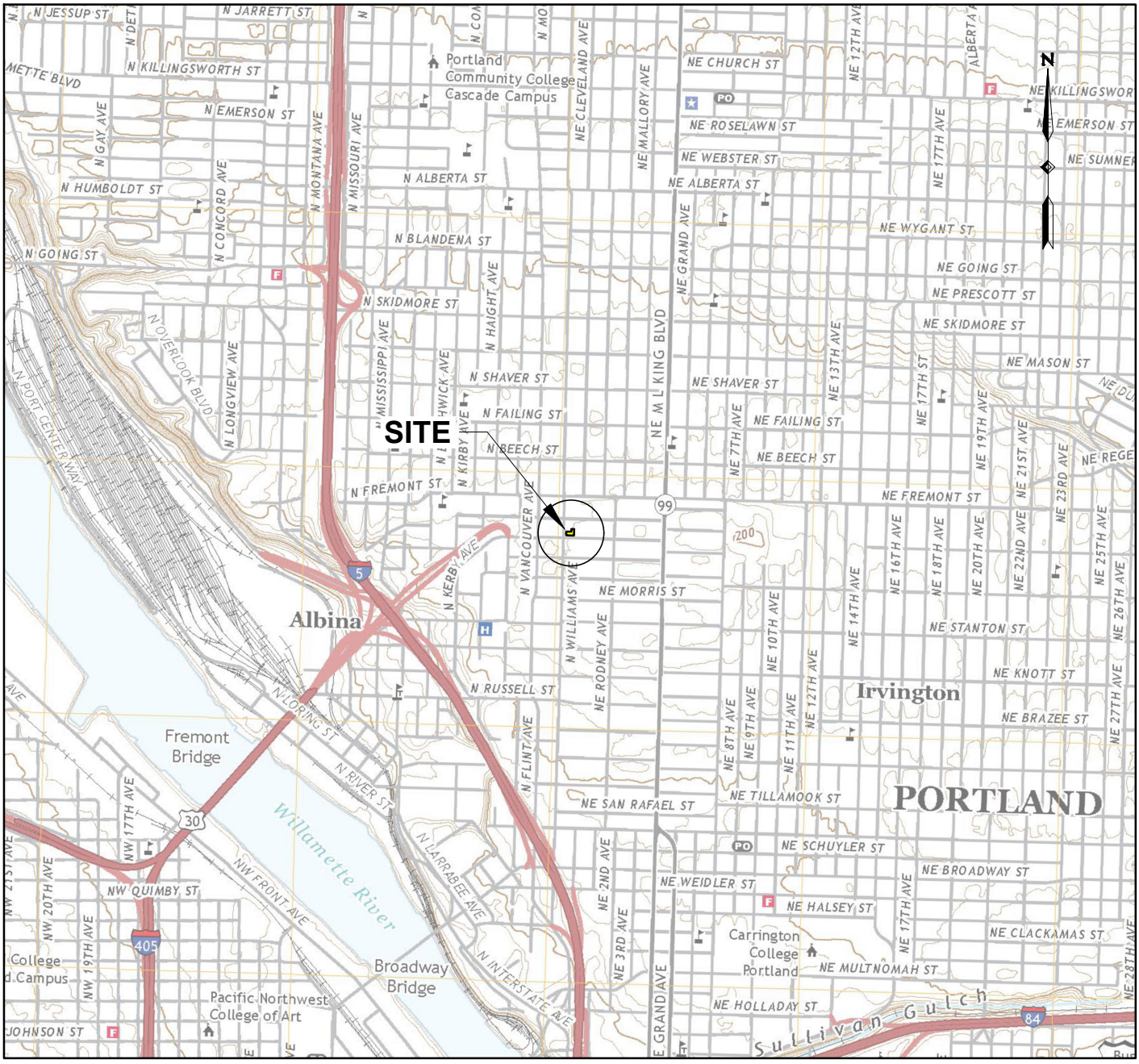
Bold values indicate concentration detected above the minimum reporting limit.

Shaded values exceed occupational soil gas RBC.

VOCs = Volatile organic compounds.

-- = Not available.

M = The relative percent difference between the primary and duplicate sample are above the quality control limit of 30%.



Portland, Oregon

United States Geological Survey
7.5 Minute Series Topographic Map
Contour Interval: 10 feet
Scale: 1 inch = 24,000 feet
Date: 2020

0 2,000 4,000
Scale in Feet

OREGON

Site Location Map

Air Assessment Report - January 2025 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

Apex Companies, LLC 15618 SW 72nd Avenue Tigard, Oregon 97224	Project Number: 32-24005460	Drawn: JP	Approved: CO	Figure 1
	June 2025			

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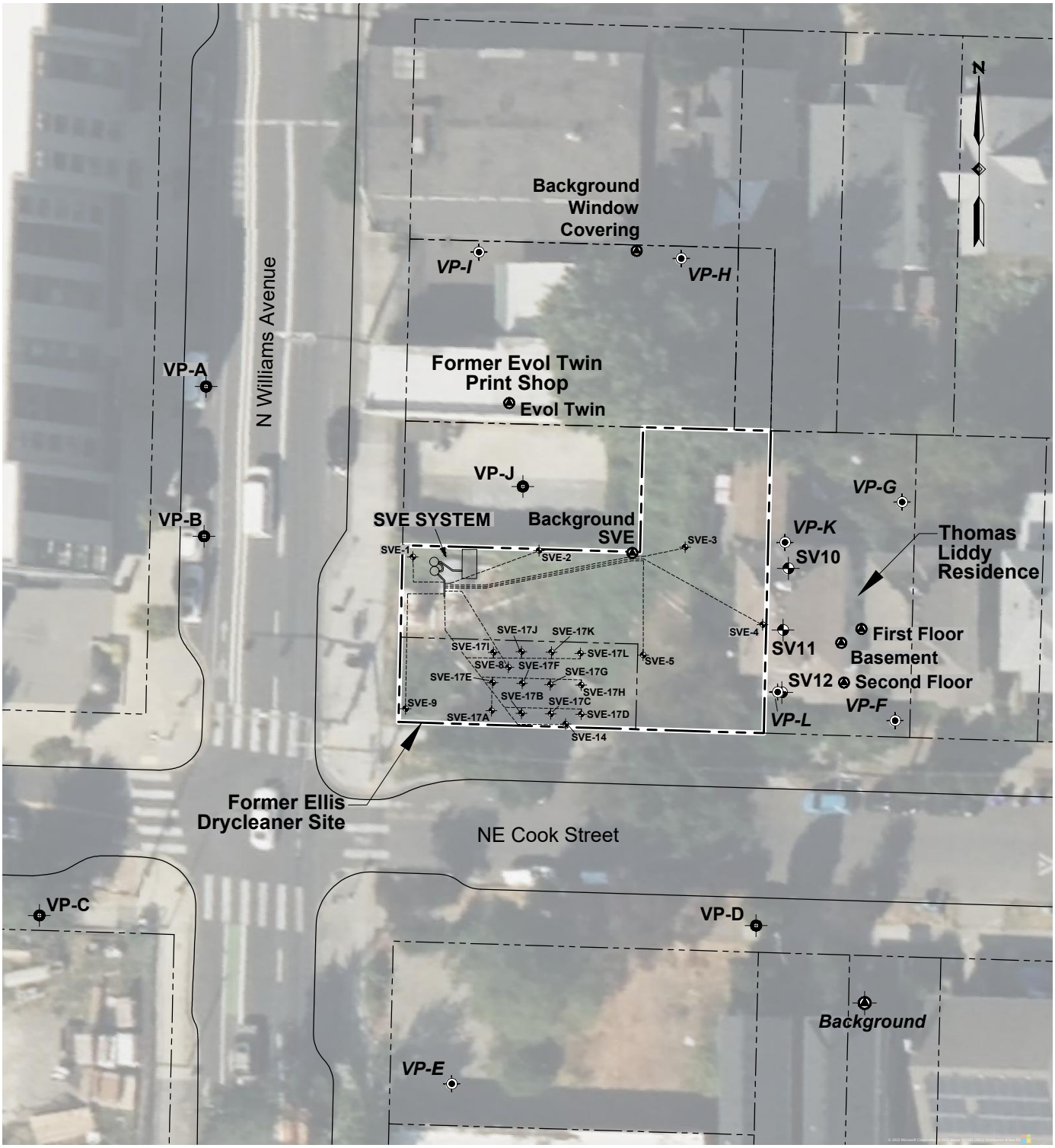

Legend:

VP-A	Soil Gas Sample Point Location
VP-E	Historical Soil Gas Sample Location
Basement	Ambient Air Sample Location
Background	Historical Ambient Air Sample Location
SV10	SVE Well Location and Piping

0 40 80

Scale in Feet

Site Plan

Air Assessment Report - January 2025 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

Note: Base map prepared from Tax Lot information from ©Oregon Metro www.oregonmetro.gov/rlis 2021 and a Microsoft Bing aerial (2023).

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
32-24005460	JP	CO	**2**
June 2025			

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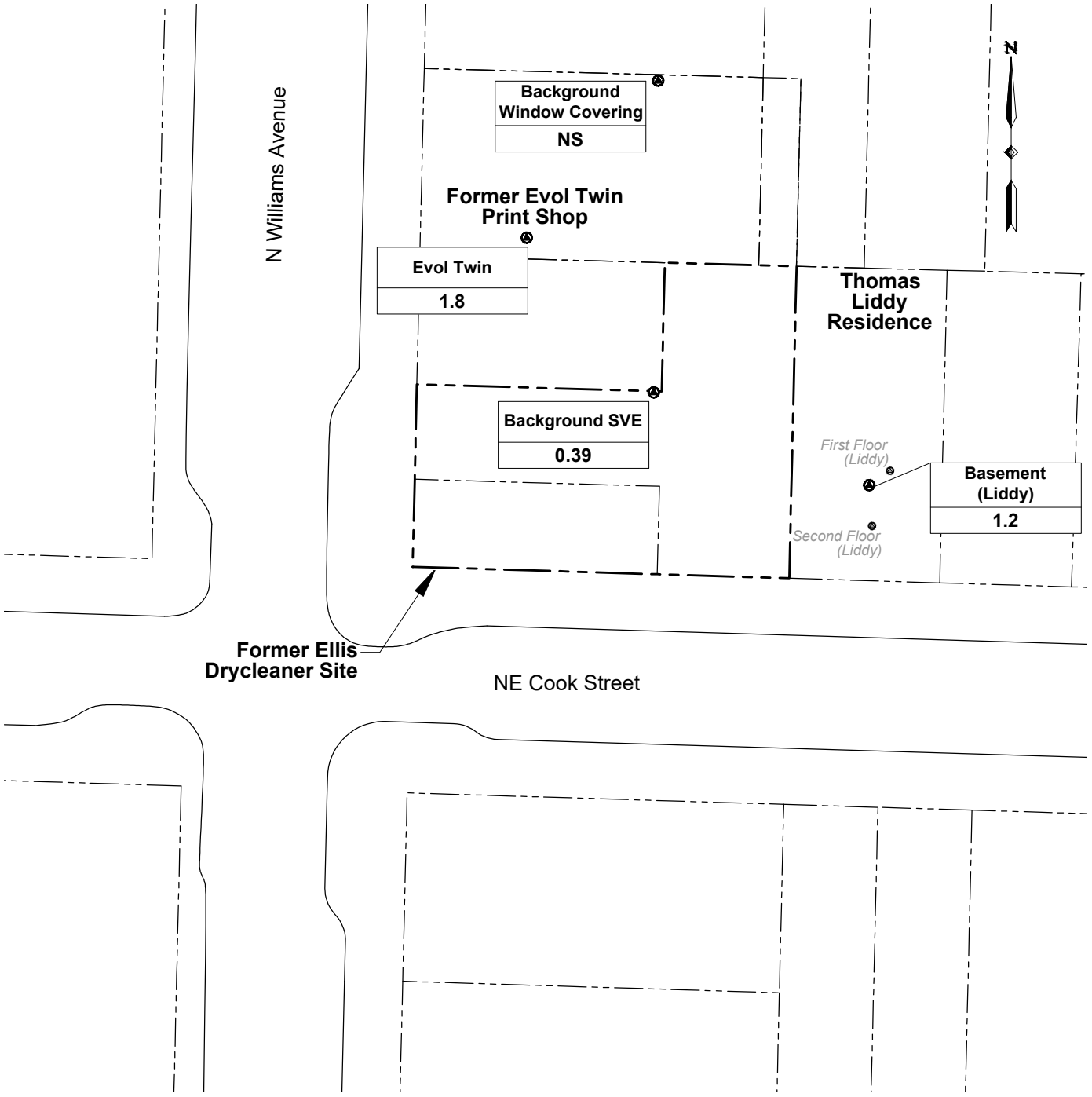


Legend:

Basement Ambient Air Sample Location

First Floor (Liddy) Historical Ambient Air Sample Location

Background Window Covering / **NS** Sample Identification; Tetrachloroethene (PCE) Concentration in Micrograms per Cubic Meter (µg/m^3)

NS Not Sampled

0 40 80

Scale in Feet

PCE Concentrations in Ambient Air

Air Assessment Report - January 2025 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

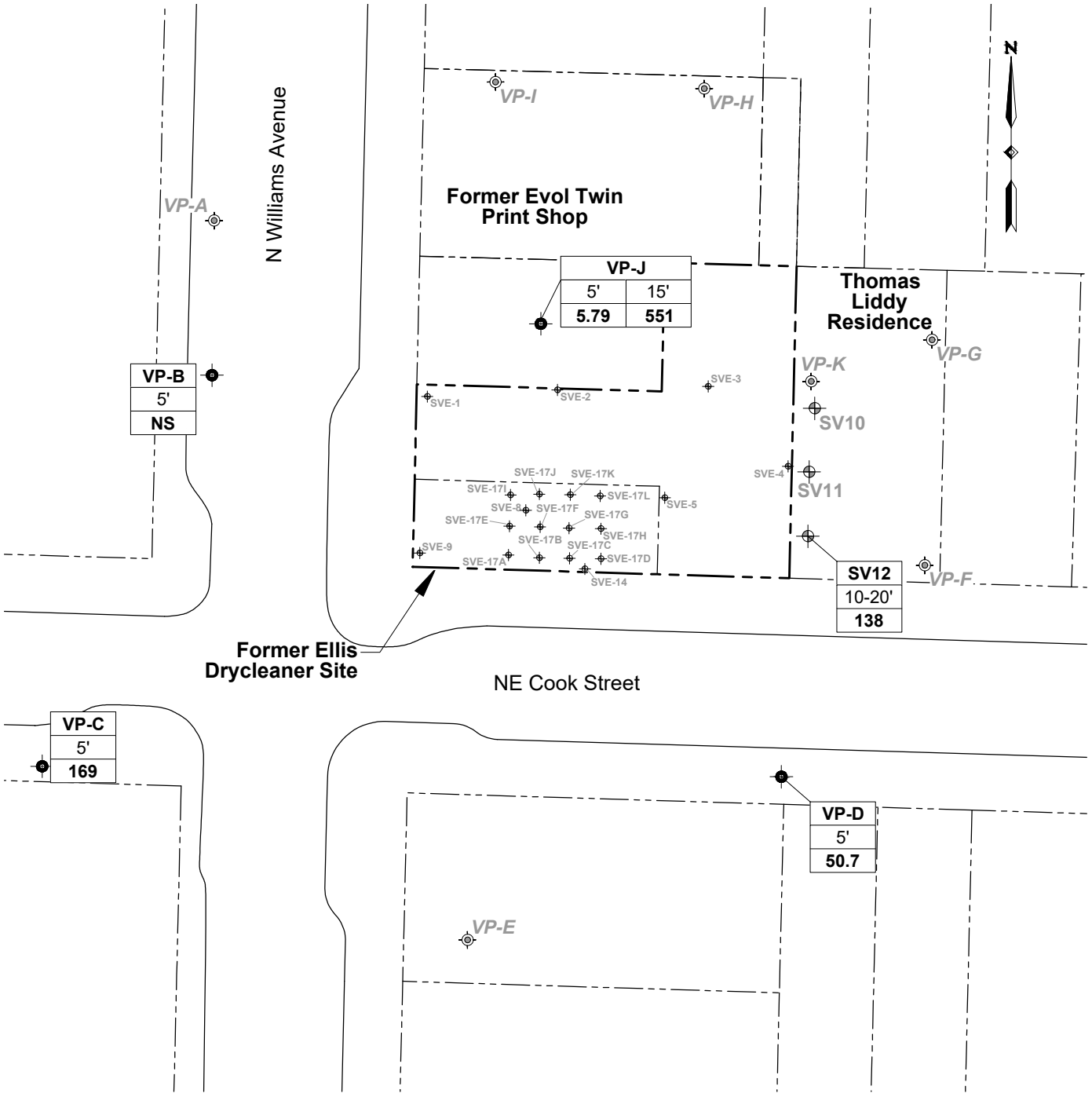
Note: Base map prepared from Tax Lot information from ©Oregon Metro www.oregonmetro.gov/rlis 2021.

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
32-24005460	JP	CO	3

June 2025

I:\Client\DEQ\Ellis\32-24005460 Ellis Dry Cleaners\Report 40 Jan 25 Event\32-24005460 03, 04 (Results).dwg Modified 3/12/2025 by JPoore



Legend:

- **VP-A** — Soil Gas Sample Point Location
- ***VP-E*** — Historical Soil Gas Sample Location
- SV10 — SVE Well Location
- **SV12** / 10-20' / **55.3** — Sample Identification; Depth of Sample in Feet; Tetrachloroethene (PCE) Concentration in Micrograms per Cubic Meter (µg/m^3)
- **NS** — Not Sampled

0 40 80

Scale in Feet

Note: Base map prepared from Tax Lot information from ©Oregon Metro www.oregonmetro.gov/rlis 2021.

PCE Concentrations in Soil Vapor

Air Assessment Report - January 2025 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
32-24005460	JP	CO	4

June 2025

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Appendix A

Analytical Laboratory Reports and Data Quality Review

1.0 Introduction

This appendix documents the results of a quality assurance/quality control (QA/QC) review of the analytical data for the January 2025 ambient air and soil vapor sampling event at the former Ellis Dry Cleaners site. The soil vapor samples were submitted to Pace Analytical Services, LLC (Pace) in Mt. Juliet, Tennessee under their Price Agreement with the Oregon Department of Environmental Quality (DEQ). The ambient air samples were submitted to Eurofins Air Toxics of Folsom, California. Copies of the analytical laboratory reports are included in this appendix.

Report	Report Date	Sampling Event
L1820206	January 29, 2025	Soil Vapor Sampling
2502016	February 13, 2025	Ambient Air Sampling

2.0 Data Validation

The QA review included examination and validation of the laboratory data packages for the following:

- Analytical preparation and quantitation methods;
- Analytical method holding times;
- Sample handling;
- Chain of custody handling;
- Reporting and detection limits;
- Method blank detections;
- Trip blank detections;
- Laboratory control samples and surrogates to assess laboratory accuracy;
- Laboratory duplicates to assess laboratory precision; and
- Field duplicates to assess sampling and laboratory precision.

The QA/QC review did not include a review of raw data.

2.1 Data Qualifiers

Any data that is found to have possible bias or error was qualified and flagged. The following are flags with definitions used in this QA/QC review and data tables.

J+	Data results are estimated values and may be biased high.

3.0 Analytical Methods

Chemical analyses of soil vapor samples consisted of the following:

- Volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method TO-15.

Chemical analyses of ambient air samples consisted of the following:

- VOCs by EPA Method TO-17 using Radiello 130 sorbent tubes.

4.0 Quality Assurance Objectives and Review

The general QA objectives for this project were to develop and implement procedures for obtaining, evaluating, and confirming the usability of data of a specified quality for monitoring air quality trends. To collect such information, analytical data must have an appropriate degree of accuracy and reproducibility, samples collected must be representative of actual field conditions, and samples must be collected and analyzed using unbroken chain of custody procedures.

Reporting limits and analytical results were compared to action levels for each parameter in the matrix of concern. Precision, accuracy, representativeness, completeness, and comparability parameters used to indicate data quality are defined below.

4.1 Holding Times and Sample Receipt

The holding time is the minimum amount of time the sample can be stored before analytes start to degrade and are not representative of initial sampling concentrations. Holding times are defined by analytical methods. Samples included in this QA/QC review were analyzed within the method recommended holding time.

Samples were received at ambient temperature by the analytical laboratory. Sampling containers arrived intact and unbroken to the laboratory. The chain of custody (COC) was properly relinquished by the Apex sampler and received by the laboratory following an unbroken format.

4.2 Reporting Limits

Reporting limits are the lowest concentration an instrument is capable of accurately detecting an analyte. They are determined by the laboratory and are based on instrumentation capabilities, the matrix of field

samples, sample preparation procedures and suggested reporting limits by the EPA. In some cases, the reporting limits may be raised due to high concentrations of analytes or matrix interferences. Reporting limits for the sampling event were below applicable Oregon Department of Environmental Quality (DEQ) Risk-Based Concentrations with the exception of 1,2-dibromoethane, hexachloro-1,3-butadiene, and naphthalene. These analytes are not target contaminants of concern. All other reporting limits were consistent with those historically reported.

4.3 Method Blanks

A method – or laboratory – blank is a quality control sample prepared by the laboratory from an analyte-free matrix and analyzed in an analytical batch along with environmental and other QC samples. It is used to assess laboratory contamination or background interferences. No analytes were detected in the laboratory blanks.

4.4 Trip Blanks

A trip blank is an analyte-free matrix that is taken from the laboratory to the sampling site and transported back to the laboratory unopened. Trip blanks assess contamination introduced during shipping and field handling activities. Trip blanks were not analyzed for this sampling event.

4.5 Accuracy

Accuracy compares the accepted reference concentration of an analyte to the concentration determined analytically. Accuracy is measured as a percent recovery. This recovery must be within a certain range or control limit for the data in an analytical batch to be considered acceptable. The analytical laboratory provides quality control samples and surrogates to help determine the accuracy and acceptability of the data reported. These quality control samples and surrogates are discussed below.

4.5.1 Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control duplicate samples (LCSD) were analyzed by the laboratory to assess the accuracy of the analytical methods. One set of LCS and LCSDs were analyzed per analytical batch. The LCS and LCSDs are prepared from an analyte-free matrix that is spiked with known levels of compounds of concern. The concentrations are measured and compared to the known spiked levels; expressed as a percent recovery. LCS and LCSD samples were recovered with control limits for this sampling event.

4.5.2 Surrogates

Surrogates are organic compounds that are similar in chemical composition to the analytes of interest but are not likely to be found in the environment. They are spiked at a known concentration into environmental and batch QC samples prior to sample preparation and analysis. Surrogate recoveries for environmental samples are used to evaluate matrix interference, sample preparation efficiency and analysis performance on a sample-specific basis. Surrogates were recovered within the laboratory control limits.

4.5.3 Instrument Calibration Range

For Radiello 130 passive samplers, target compounds are adsorbed to a sorbent material. This sorbent material cannot be diluted for analysis due to the desorbing procedure. If target compounds are present above the upper calibration range, then results are reported as-is without dilution. These results are considered estimated since instrument response above the calibration range may be inaccurate or imprecise. Recovery of all target compounds was within the calibration range.

4.5.4 Labeled Standards

Labeled standards are spiked directly into samples before preparation to determine matrix interferences and concentration of analytes. Labeled standards were within quality control limits.

4.6 Precision

Precision is measured by how close values of duplicate analyses are to each other. These duplicate analyses are prepared from separate aliquots of the same sample and are analyzed at the same (or similar) time. Precision in the field ensures that samples taken are representative of field concentrations; this is demonstrated by field duplicates. Analytical precision is the ability of the laboratory to reproduce results that are similar to each other; this is measured through duplicate analysis of environmental and batch QC samples. Precision is estimated by the relative percent difference (RPD) between the original analysis and the duplicate analysis.

4.6.1 Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed by the laboratory to assess the accuracy of the analytical methods. One set of LCS and LCSDs were analyzed per analytical batch. The LCS and LCSDs are prepared from an analyte-free matrix that is spiked with known levels of compounds of concern. The concentrations are measured and compared to the known spiked levels; expressed as a percent recovery. RPDs were within control limits.

4.6.2 Field Duplicate

A field duplicate is a second field sample collected from a selected sample location. Field duplicate samples serve as a check on laboratory precision, sampling quality, and potential variability of the sample matrix. The field duplicate is analyzed and compared to the original sample to assess precision. This comparison can be expressed by the RPD between the original and duplicate samples. RPDs between the primary and duplicate sample at VP-D were below the 30 percent limit.

5.0 Conclusion

In conclusion, the QA objectives have been met and the data are of sufficient quality for use in this project.

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Analytical Report

2/13/2025
Ms. Carmen Owens
Apex Companies, LLC
15618 SW 72nd Ave

Tigard OR 97224

Project Name: Former Ellis Dry Cleaners
Project #: 24005460
Workorder #: 2502016

Dear Ms. Carmen Owens

The following report includes the data for the above referenced project for sample(s) received on 2/3/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,

Monica Tran

Project Manager

eurofins | Air Toxics

WORK ORDER #: 2502016

Work Order Summary

CLIENT:	Ms. Carmen Owens Apex Companies, LLC 15618 SW 72nd Ave Tigard, OR 97224	**BILL TO:**	Accounts Payable Apex Companies, LLC 15618 SW 72nd Ave Tigard, OR 97224
PHONE:	503-974-0417	**P.O. #**	32-24005460
FAX:		**PROJECT #**	24005460 Former Ellis Dry Cleaners
DATE RECEIVED:	02/03/2025	**CONTACT:**	Monica Tran
DATE COMPLETED:	02/13/2025		

FRACTION #	NAME	TEST
01A	Background SVE	Passive S.E. RAD130/SKC
02A	Evol Twin	Passive S.E. RAD130/SKC
03A	Liddy Basement	Passive S.E. RAD130/SKC
04A	Lab Blank	Passive S.E. RAD130/SKC
05A	CCV	Passive S.E. RAD130/SKC
06A	LCS	Passive S.E. RAD130/SKC
06AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Hayes DATE: 02/13/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
Apex Companies, LLC
Workorder# 2502016

Three Radiello 130 (Solvent) samples were received on February 03, 2025. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 10111 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: Background SVE

Lab ID#: 2502016-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.15	0.40	0.61
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.24	0.31
Cyclohexane	0.10	0.18	0.24	0.45
Carbon Tetrachloride	0.10	0.15	0.19	0.28
Benzene	0.40	0.50	0.76	0.94
Heptane	0.10	0.17	0.31	0.53
Toluene	0.10	0.13	1.3	1.7
Tetrachloroethene	0.10	0.17	0.23	0.39
Ethyl Benzene	0.10	0.14	0.21	0.30
m,p-Xylene	0.10	0.14	0.70	0.99
o-Xylene	0.10	0.15	0.23	0.35
1,2,4-Trimethylbenzene	0.10	0.20	0.19	0.38

Client Sample ID: Evol Twin

Lab ID#: 2502016-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	13	12
Hexane	0.10	0.15	0.51	0.76
Ethyl Acetate	0.40	0.51	0.59	0.75
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.51	0.64
Chloroform	0.10	0.13	0.13	0.17
Cyclohexane	0.10	0.18	0.36	0.66
Carbon Tetrachloride	0.10	0.15	0.21	0.31
Benzene	0.40	0.49	0.79	0.97
Heptane	0.10	0.17	0.48	0.82
Toluene	0.10	0.13	1.6	2.1
Tetrachloroethene	0.10	0.17	1.1	1.8
Ethyl Benzene	0.10	0.14	0.28	0.41
m,p-Xylene	0.10	0.14	0.89	1.3
o-Xylene	0.10	0.15	0.31	0.47
Propylbenzene	0.10	0.17	0.11	0.19
1,2,4-Trimethylbenzene	0.10	0.20	0.42	0.83

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: Liddy Basement

Lab ID#: 2502016-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	6.2	6.1
Hexane	0.10	0.15	0.45	0.68
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.39	0.49
Chloroform	0.10	0.13	0.17	0.23
Cyclohexane	0.10	0.18	0.33	0.60
Carbon Tetrachloride	0.10	0.15	0.20	0.29
Benzene	0.40	0.50	0.74	0.92
Heptane	0.10	0.17	0.56	0.97
Toluene	0.10	0.13	2.2	2.9
Tetrachloroethene	0.10	0.17	0.69	1.2
Ethyl Benzene	0.10	0.15	0.24	0.35
m,p-Xylene	0.10	0.14	0.81	1.2
o-Xylene	0.10	0.15	0.26	0.40
1,2,4-Trimethylbenzene	0.10	0.20	0.21	0.41

eurofins | Air Toxics

Client Sample ID: Background SVE

Lab ID#: 2502016-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020523sim**	**Date of Collection: 1/31/25 10:27:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/25 06:56 PM**	
		Date of Extraction: 2/5/25	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.40	0.61
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.24	0.31
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	0.24	0.45
Carbon Tetrachloride	0.10	0.15	0.19	0.28
Benzene	0.40	0.50	0.76	0.94
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	0.31	0.53
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	1.3	1.7
Tetrachloroethene	0.10	0.17	0.23	0.39
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	0.21	0.30
m,p-Xylene	0.10	0.14	0.70	0.99
o-Xylene	0.10	0.15	0.23	0.35
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	0.19	0.38
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10090 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: Evol Twin

Lab ID#: 2502016-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020524sim**	**Date of Collection: 1/31/25 10:31:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/25 07:23 PM**
		Date of Extraction: 2/5/25

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	13	12
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.51	0.76
Ethyl Acetate	0.40	0.51	0.59	0.75
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.51	0.64
Chloroform	0.10	0.13	0.13	0.17
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	0.36	0.66
Carbon Tetrachloride	0.10	0.15	0.21	0.31
Benzene	0.40	0.49	0.79	0.97
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	0.48	0.82
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	1.6	2.1
Tetrachloroethene	0.10	0.17	1.1	1.8
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	0.28	0.41
m,p-Xylene	0.10	0.14	0.89	1.3
o-Xylene	0.10	0.15	0.31	0.47
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	0.11	0.19
1,2,4-Trimethylbenzene	0.10	0.20	0.42	0.83
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10111 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: Liddy Basement

Lab ID#: 2502016-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020525sim**	**Date of Collection: 1/31/25 10:36:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/25 07:50 PM**	
		Date of Extraction: 2/5/25	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	6.2	6.1
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.45	0.68
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.39	0.49
Chloroform	0.10	0.13	0.17	0.23
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	0.33	0.60
Carbon Tetrachloride	0.10	0.15	0.20	0.29
Benzene	0.40	0.50	0.74	0.92
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	0.56	0.97
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	2.2	2.9
Tetrachloroethene	0.10	0.17	0.69	1.2
Chlorobenzene	0.10	0.15	Not Detected	Not Detected
Ethyl Benzene	0.10	0.15	0.24	0.35
m,p-Xylene	0.10	0.14	0.81	1.2
o-Xylene	0.10	0.15	0.26	0.40
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	0.21	0.41
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10066 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2502016-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020505sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/25 10:41 AM**	
		Date of Extraction: 2/5/25	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	Not Detected	Not Detected
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	Not Detected	Not Detected
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.49	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	Not Detected	Not Detected
o-Xylene	0.10	0.15	Not Detected	Not Detected
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10111 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

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Client Sample ID: CCV

Lab ID#: 2502016-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020502sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/25 09:19 AM**
		Date of Extraction: NA

Compound	%Recovery
Ethanol	83
Methyl tert-butyl ether	114
Hexane	113
Ethyl Acetate	104
2-Butanone (Methyl Ethyl Ketone)	105
Chloroform	109
1,1,1-Trichloroethane	105
Cyclohexane	105
Carbon Tetrachloride	105
Benzene	101
1,2-Dichloroethane	115
Heptane	106
Trichloroethene	103
4-Methyl-2-pentanone	109
Toluene	106
Tetrachloroethene	102
Chlorobenzene	107
Ethyl Benzene	105
m,p-Xylene	105
o-Xylene	106
Styrene	108
Propylbenzene	113
1,2,4-Trimethylbenzene	111
1,4-Dichlorobenzene	107
Naphthalene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130

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Client Sample ID: LCS

Lab ID#: 2502016-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020503sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/25 09:46 AM**	
		Date of Extraction: 2/5/25	

Compound	%Recovery	Method Limits
Ethanol	54	50-130
Methyl tert-butyl ether	90	70-130
Hexane	92	70-130
Ethyl Acetate	81	70-130
2-Butanone (Methyl Ethyl Ketone)	78	70-130
Chloroform	84	70-130
1,1,1-Trichloroethane	80	70-130
Cyclohexane	84	70-130
Carbon Tetrachloride	80	70-130
Benzene	75	70-130
1,2-Dichloroethane	85	70-130
Heptane	83	70-130
Trichloroethene	80	70-130
4-Methyl-2-pentanone	81	70-130
Toluene	80	70-130
Tetrachloroethene	77	70-130
Chlorobenzene	78	70-130
Ethyl Benzene	80	70-130
m,p-Xylene	79	70-130
o-Xylene	77	70-130
Styrene	51	20-100
Propylbenzene	86	70-130
1,2,4-Trimethylbenzene	80	70-130
1,4-Dichlorobenzene	71	50-110
Naphthalene	26	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2502016-06AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020504sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/25 10:13 AM**	
		Date of Extraction: 2/5/25	

Compound	%Recovery	Method Limits
Ethanol	50	50-130
Methyl tert-butyl ether	90	70-130
Hexane	91	70-130
Ethyl Acetate	81	70-130
2-Butanone (Methyl Ethyl Ketone)	77	70-130
Chloroform	84	70-130
1,1,1-Trichloroethane	79	70-130
Cyclohexane	83	70-130
Carbon Tetrachloride	79	70-130
Benzene	74	70-130
1,2-Dichloroethane	84	70-130
Heptane	83	70-130
Trichloroethene	80	70-130
4-Methyl-2-pentanone	81	70-130
Toluene	80	70-130
Tetrachloroethene	77	70-130
Chlorobenzene	78	70-130
Ethyl Benzene	80	70-130
m,p-Xylene	79	70-130
o-Xylene	77	70-130
Styrene	52	20-100
Propylbenzene	87	70-130
1,2,4-Trimethylbenzene	81	70-130
1,4-Dichlorobenzene	71	50-110
Naphthalene	26	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Method : Passive SE GC/MS - Full 130 (rev 2023)

CAS Number	Compound	Rpt. Limit (ug)
64-17-5	Ethanol	1.0
1634-04-4	Methyl tert-butyl ether	0.10
110-54-3	Hexane	0.10
141-78-6	Ethyl Acetate	0.40
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.20
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.10
110-82-7	Cyclohexane	0.10
56-23-5	Carbon Tetrachloride	0.10
71-43-2	Benzene	0.40
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.10
79-01-6	**Trichloroethene**	**0.10**
108-10-1	4-Methyl-2-pentanone	0.20
108-88-3	Toluene	0.10
127-18-4	Tetrachloroethene	0.10
108-90-7	Chlorobenzene	0.10
100-41-4	Ethyl Benzene	0.10
108-38-3	m,p-Xylene	0.10
95-47-6	o-Xylene	0.10
100-42-5	Styrene	0.10
103-65-1	Propylbenzene	0.10
95-63-6	1,2,4-Trimethylbenzene	0.10
106-46-7	1,4-Dichlorobenzene	0.10
91-20-3	Naphthalene	0.10

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

ANALYTICAL REPORT

January 29, 2025

Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group:	L1820206
Samples Received:	01/25/2025
Project Number:	24005460
Description:	DEQ Ellis
Site:	DEQ ELLIS
Report To:	Kara Master 3150 NW 229th St., Suite 150 Hillsboro, OR 97124

Entire Report Reviewed By:

Brian Ford

Project Manager

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

VP-J (5) L1820206-01 Air

Collected by: Christine Weer | Collected date/time: 01/24/25 10:59 | Received date/time: 01/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2440137	1	01/26/25 11:48	01/26/25 11:48	GH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2441126	1	01/28/25 13:18	01/28/25 13:18	NIH	Mt. Juliet, TN

VP-J (15) L1820206-02 Air

Collected by: Christine Weer | Collected date/time: 01/24/25 11:00 | Received date/time: 01/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2440137	1	01/26/25 12:16	01/26/25 12:16	GH	Mt. Juliet, TN

SV-12 L1820206-03 Air

Collected by: Christine Weer | Collected date/time: 01/24/25 11:16 | Received date/time: 01/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2440137	1	01/26/25 12:44	01/26/25 12:44	GH	Mt. Juliet, TN

VP-C L1820206-04 Air

Collected by: Christine Weer | Collected date/time: 01/24/25 12:15 | Received date/time: 01/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2440137	1	01/26/25 13:12	01/26/25 13:12	GH	Mt. Juliet, TN

VP-D L1820206-05 Air

Collected by: Christine Weer | Collected date/time: 01/24/25 11:13 | Received date/time: 01/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2440137	1	01/26/25 13:39	01/26/25 13:39	GH	Mt. Juliet, TN

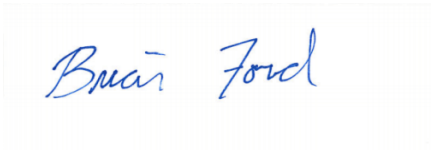
DUP L1820206-06 Air

Collected by: Christine Weer | Collected date/time: 01/24/25 11:47 | Received date/time: 01/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2440137	1	01/26/25 14:07	01/26/25 14:07	GH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2440137
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2440137
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2441126
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2440137
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2440137
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2440137
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2440137
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2440137
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2440137
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2440137
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2440137
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2440137
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2440137
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2440137
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2440137
Cyclohexane	110-82-7	84.20	0.200	0.689	0.896	3.09		1	WG2440137
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2440137
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2440137
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2440137
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2440137
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2440137
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2440137
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2440137
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2440137
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2440137
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2440137
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2440137
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2440137
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2440137
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2440137
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2440137
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2441126
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2440137
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.274	1.54		1	WG2440137
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.555	2.74		1	WG2440137
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2440137
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2440137
Heptane	142-82-5	100	0.200	0.818	0.995	4.07		1	WG2440137
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2440137
n-Hexane	110-54-3	86.20	0.630	2.22	1.12	3.95		1	WG2440137
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2440137
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2440137
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2440137
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2440137
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2440137
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2440137
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2440137
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2440137
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2440137
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2440137
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2440137
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2440137
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2440137
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.853	5.79		1	WG2440137
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2440137
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2441126

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2440137
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2440137
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2440137
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2440137
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2440137
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2440137
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2440137
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2440137
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2440137
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2440137
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2441126
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2441126
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2440137
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*86.9*				WG2440137
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*92.4*				WG2441126

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2440137
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2440137
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2440137
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2440137
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2440137
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2440137
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2440137
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2440137
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2440137
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2440137
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2440137
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2440137
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2440137
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2440137
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2440137
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2440137
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2440137
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2440137
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2440137
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2440137
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2440137
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2440137
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2440137
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2440137
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2440137
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2440137
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2440137
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2440137
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2440137
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2440137
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2440137
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2440137
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2440137
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.265	1.49		1	WG2440137
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.31	6.48		1	WG2440137
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2440137
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2440137
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2440137
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2440137
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2440137
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2440137
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2440137
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2440137
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2440137
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2440137
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2440137
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2440137
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2440137
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2440137
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2440137
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2440137
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2440137
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2440137
Tetrachloroethylene	127-18-4	166	0.200	1.36	81.1	551		1	WG2440137
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2440137
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2440137

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2440137
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2440137
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2440137
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2440137
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2440137
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2440137
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2440137
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2440137
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2440137
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2440137
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2440137
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2440137
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2440137
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*88.9*				WG2440137

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2440137
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2440137
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2440137
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2440137
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2440137
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2440137
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2440137
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2440137
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2440137
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2440137
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2440137
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2440137
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2440137
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2440137
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2440137
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2440137
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2440137
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2440137
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2440137
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2440137
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2440137
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2440137
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2440137
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2440137
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2440137
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2440137
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2440137
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2440137
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2440137
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2440137
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2440137
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2440137
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2440137
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.278	1.56		1	WG2440137
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.490	2.42		1	WG2440137
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2440137
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2440137
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2440137
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2440137
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2440137
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2440137
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2440137
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2440137
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2440137
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2440137
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2440137
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2440137
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2440137
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2440137
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2440137
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2440137
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2440137
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2440137
Tetrachloroethylene	127-18-4	166	0.200	1.36	20.3	138		1	WG2440137
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2440137
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2440137

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2440137
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2440137
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2440137
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2440137
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2440137
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2440137
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2440137
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2440137
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2440137
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2440137
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2440137
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2440137
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2440137
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*89.6*				WG2440137

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2440137
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2440137
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2440137
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2440137
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2440137
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2440137
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2440137
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2440137
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2440137
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2440137
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2440137
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2440137
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2440137
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2440137
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2440137
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2440137
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2440137
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2440137
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2440137
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2440137
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2440137
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2440137
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2440137
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2440137
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2440137
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2440137
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2440137
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2440137
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2440137
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2440137
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2440137
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2440137
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2440137
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.250	1.40		1	WG2440137
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.566	2.80		1	WG2440137
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2440137
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2440137
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2440137
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2440137
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2440137
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2440137
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2440137
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2440137
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2440137
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2440137
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2440137
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2440137
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2440137
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2440137
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2440137
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2440137
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2440137
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2440137
Tetrachloroethylene	127-18-4	166	0.200	1.36	24.9	169		1	WG2440137
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2440137
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2440137

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2440137
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2440137
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2440137
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2440137
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2440137
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2440137
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2440137
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2440137
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2440137
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2440137
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2440137
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2440137
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2440137
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*90.0*				WG2440137

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2440137
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2440137
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2440137
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2440137
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2440137
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2440137
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2440137
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2440137
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2440137
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2440137
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2440137
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2440137
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2440137
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2440137
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2440137
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2440137
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2440137
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2440137
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2440137
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2440137
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2440137
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2440137
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2440137
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2440137
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2440137
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2440137
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2440137
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2440137
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2440137
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2440137
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2440137
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2440137
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2440137
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.230	1.29		1	WG2440137
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.526	2.60		1	WG2440137
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2440137
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2440137
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2440137
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2440137
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2440137
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2440137
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2440137
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2440137
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2440137
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2440137
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2440137
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2440137
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2440137
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2440137
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2440137
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2440137
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2440137
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2440137
Tetrachloroethylene	127-18-4	166	0.200	1.36	7.47	50.7		1	WG2440137
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2440137
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2440137

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2440137
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2440137
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2440137
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2440137
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2440137
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2440137
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2440137
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2440137
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2440137
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2440137
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2440137
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2440137
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2440137
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*90.3*				WG2440137

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2440137
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2440137
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2440137
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2440137
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2440137
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2440137
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2440137
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2440137
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2440137
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2440137
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2440137
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2440137
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2440137
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2440137
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2440137
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2440137
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2440137
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2440137
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2440137
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2440137
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2440137
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2440137
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2440137
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2440137
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2440137
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2440137
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2440137
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2440137
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2440137
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2440137
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2440137
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2440137
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2440137
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.231	1.30		1	WG2440137
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.491	2.43		1	WG2440137
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2440137
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2440137
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2440137
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2440137
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2440137
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2440137
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2440137
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2440137
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2440137
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2440137
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2440137
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2440137
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2440137
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2440137
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2440137
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2440137
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2440137
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2440137
Tetrachloroethylene	127-18-4	166	0.200	1.36	7.44	50.5		1	WG2440137
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2440137
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2440137

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2440137
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2440137
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2440137
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2440137
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2440137
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2440137
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2440137
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2440137
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2440137
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2440137
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2440137
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2440137
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2440137
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*92.1*				WG2440137

Method Blank (MB)

(MB) R4170769-3 01/26/25 10:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.520	1.25
Allyl chloride	U		0.186	0.200
Benzene	U		0.110	0.200
Benzyl Chloride	U		0.0888	0.200
Bromodichloromethane	U		0.0695	0.200
Bromoform	U		0.0755	0.630
Bromomethane	U		0.0938	0.200
1,3-Butadiene	U		0.158	2.00
Carbon disulfide	U		0.160	0.400
Carbon tetrachloride	U		0.0746	0.200
Chlorobenzene	U		0.118	0.200
Chloroethane	U		0.110	0.200
Chloroform	U		0.104	0.200
Chloromethane	U		0.110	0.200
2-Chlorotoluene	U		0.0787	0.200
Cyclohexane	U		0.170	0.200
Dibromochloromethane	U		0.0696	0.200
1,2-Dibromoethane	U		0.0690	0.200
1,2-Dichlorobenzene	U		0.0734	0.200
1,3-Dichlorobenzene	U		0.0753	0.200
1,4-Dichlorobenzene	U		0.0768	0.200
1,2-Dichloroethane	U		0.0730	0.200
1,1-Dichloroethane	U		0.0710	0.200
1,1-Dichloroethene	U		0.0747	0.200
cis-1,2-Dichloroethene	U		0.0796	0.200
trans-1,2-Dichloroethene	U		0.0735	0.200
1,2-Dichloropropane	U		0.0752	0.200
cis-1,3-Dichloropropene	U		0.0743	0.200
trans-1,3-Dichloropropene	U		0.0795	0.200
1,4-Dioxane	U		0.164	0.630
Ethanol	U		2.37	2.50
Ethylbenzene	U		0.0778	0.200
4-Ethyltoluene	U		0.0887	0.200
Trichlorofluoromethane	U		0.0771	0.200
Dichlorodifluoromethane	U		0.0806	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0751	0.200
1,2-Dichlorotetrafluoroethane	U		0.0756	0.200
Heptane	U		0.114	0.200
Hexachloro-1,3-butadiene	U		0.0800	0.630
n-Hexane	U		0.143	0.630

Method Blank (MB)

(MB) R4170769-3 01/26/25 10:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0722	0.200
Methylene Chloride	U		0.169	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.116	1.25
4-Methyl-2-pentanone (MIBK)	U		0.106	1.25
Methyl methacrylate	U		0.169	0.200
MTBE	U		0.0813	0.200
Naphthalene	U		0.617	0.630
2-Propanol	U		0.680	1.25
Propene	U		0.214	1.25
n-Propylbenzene	U		0.0807	0.200
Styrene	U		0.0802	0.400
1,1,2,2-Tetrachloroethane	U		0.0695	0.200
Tetrachloroethylene	U		0.111	0.200
Tetrahydrofuran	U		0.164	0.200
Toluene	U		0.130	0.500
1,2,4-Trichlorobenzene	U		0.462	0.630
1,1,1-Trichloroethane	U		0.0718	0.200
1,1,2-Trichloroethane	U		0.0683	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0927	0.200
1,3,5-Trimethylbenzene	U		0.0853	0.200
2,2,4-Trimethylpentane	U		0.0898	0.200
Vinyl chloride	U		0.0826	0.200
Vinyl Bromide	U		0.0749	0.200
Vinyl acetate	U		0.0968	0.630
m&p-Xylene	U		0.174	0.400
o-Xylene	U		0.0887	0.200
TPH (GC/MS) Low Fraction	U		68.3	200
(S) 1,4-Bromofluorobenzene	*92.0*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4170769-1 01/26/25 09:10 • (LCSD) R4170769-2 01/26/25 09:40

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.02	3.76	107	100	70.0-130			6.68	25
Allyl chloride	3.75	3.85	3.62	103	96.5	70.0-130			6.16	25
Benzene	3.75	4.24	4.26	113	114	70.0-130			0.471	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4170769-1 01/26/25 09:10 • (LCSD) R4170769-2 01/26/25 09:40

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzyl Chloride	3.75	4.29	4.28	114	114	70.0-152			0.233	25
Bromodichloromethane	3.75	4.24	4.36	113	116	70.0-130			2.79	25
Bromoform	3.75	4.27	4.30	114	115	70.0-130			0.700	25
Bromomethane	3.75	4.05	4.10	108	109	70.0-130			1.23	25
1,3-Butadiene	3.75	3.94	3.81	105	102	70.0-130			3.35	25
Carbon disulfide	7.50	8.26	8.22	110	110	70.0-130			0.485	25
Carbon tetrachloride	3.75	4.30	4.22	115	113	70.0-130			1.88	25
Chlorobenzene	3.75	4.16	4.24	111	113	70.0-130			1.90	25
Chloroethane	3.75	3.99	3.89	106	104	70.0-130			2.54	25
Chloroform	3.75	4.32	4.30	115	115	70.0-130			0.464	25
Chloromethane	3.75	4.28	4.15	114	111	70.0-130			3.08	25
2-Chlorotoluene	3.75	4.38	4.40	117	117	70.0-130			0.456	25
Cyclohexane	3.75	4.15	4.17	111	111	70.0-130			0.481	25
Dibromochloromethane	3.75	4.30	4.33	115	115	70.0-130			0.695	25
1,2-Dibromoethane	3.75	4.15	4.20	111	112	70.0-130			1.20	25
1,2-Dichlorobenzene	3.75	4.43	4.53	118	121	70.0-130			2.23	25
1,3-Dichlorobenzene	3.75	4.40	4.42	117	118	70.0-130			0.454	25
1,4-Dichlorobenzene	3.75	4.30	4.50	115	120	70.0-130			4.55	25
1,2-Dichloroethane	3.75	4.20	4.28	112	114	70.0-130			1.89	25
1,1-Dichloroethane	3.75	4.29	4.25	114	113	70.0-130			0.937	25
1,1-Dichloroethene	3.75	3.99	3.91	106	104	70.0-130			2.03	25
cis-1,2-Dichloroethene	3.75	4.30	4.10	115	109	70.0-130			4.76	25
trans-1,2-Dichloroethene	3.75	4.35	3.69	116	98.4	70.0-130			16.4	25
1,2-Dichloropropane	3.75	4.26	4.23	114	113	70.0-130			0.707	25
cis-1,3-Dichloropropene	3.75	4.16	4.20	111	112	70.0-130			0.957	25
trans-1,3-Dichloropropene	3.75	4.19	4.22	112	113	70.0-130			0.713	25
1,4-Dioxane	3.75	4.39	4.46	117	119	70.0-140			1.58	25
Ethanol	3.75	3.54	3.49	94.4	93.1	55.0-148			1.42	25
Ethylbenzene	3.75	4.31	4.40	115	117	70.0-130			2.07	25
4-Ethyltoluene	3.75	4.52	4.56	121	122	70.0-130			0.881	25
Trichlorofluoromethane	3.75	4.03	3.95	107	105	70.0-130			2.01	25
Dichlorodifluoromethane	3.75	4.23	4.15	113	111	64.0-139			1.91	25
1,1,2-Trichlorotrifluoroethane	3.75	4.15	4.12	111	110	70.0-130			0.726	25
1,2-Dichlorotetrafluoroethane	3.75	4.20	4.26	112	114	70.0-130			1.42	25
Heptane	3.75	4.19	4.21	112	112	70.0-130			0.476	25
Hexachloro-1,3-butadiene	3.75	4.28	4.29	114	114	70.0-151			0.233	25
n-Hexane	3.75	4.26	4.11	114	110	70.0-130			3.58	25
Isopropylbenzene	3.75	4.48	4.46	119	119	70.0-130			0.447	25
Methylene Chloride	3.75	3.76	3.78	100	101	70.0-130			0.531	25
Methyl Butyl Ketone	3.75	4.17	4.28	111	114	70.0-149			2.60	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4170769-1 01/26/25 09:10 • (LCSD) R4170769-2 01/26/25 09:40

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Butanone (MEK)	3.75	4.20	4.39	112	117	70.0-130			4.42	25
4-Methyl-2-pentanone (MIBK)	3.75	4.48	4.49	119	120	70.0-139			0.223	25
Methyl methacrylate	3.75	4.24	4.32	113	115	70.0-130			1.87	25
MTBE	3.75	4.25	4.23	113	113	70.0-130			0.472	25
Naphthalene	3.75	4.28	4.33	114	115	70.0-159			1.16	25
2-Propanol	3.75	3.83	3.72	102	99.2	70.0-139			2.91	25
Propene	3.75	3.95	3.98	105	106	64.0-144			0.757	25
n-Propylbenzene	3.75	4.52	4.63	121	123	70.0-130			2.40	25
Styrene	7.50	9.25	9.40	123	125	70.0-130			1.61	25
1,1,2,2-Tetrachloroethane	3.75	4.47	4.51	119	120	70.0-130			0.891	25
Tetrachloroethylene	3.75	4.15	4.23	111	113	70.0-130			1.91	25
Tetrahydrofuran	3.75	4.17	4.15	111	111	70.0-137			0.481	25
Toluene	3.75	4.23	4.31	113	115	70.0-130			1.87	25
1,2,4-Trichlorobenzene	3.75	4.08	4.14	109	110	70.0-160			1.46	25
1,1,1-Trichloroethane	3.75	4.26	4.19	114	112	70.0-130			1.66	25
1,1,2-Trichloroethane	3.75	4.11	4.15	110	111	70.0-130			0.969	25
Trichloroethylene	3.75	4.34	4.40	116	117	70.0-130			1.37	25
1,2,4-Trimethylbenzene	3.75	4.59	4.72	122	126	70.0-130			2.79	25
1,3,5-Trimethylbenzene	3.75	4.60	4.63	123	123	70.0-130			0.650	25
2,2,4-Trimethylpentane	3.75	4.22	4.20	113	112	70.0-130			0.475	25
Vinyl chloride	3.75	3.93	3.88	105	103	70.0-130			1.28	25
Vinyl Bromide	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Vinyl acetate	3.75	3.55	3.51	94.7	93.6	70.0-130			1.13	25
m&p-Xylene	7.50	9.07	9.19	121	123	70.0-130			1.31	25
o-Xylene	3.75	4.69	4.76	125	127	70.0-130			1.48	25
TPH (GC/MS) Low Fraction	188	198	198	105	105	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				*100*	*99.9*	*60.0-140*				

Method Blank (MB)

(MB) R4171318-3 01/28/25 09:56

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.110	0.200
Ethylbenzene	U		0.0778	0.200
Toluene	U		0.130	0.500
m&p-Xylene	U		0.174	0.400
o-Xylene	U		0.0887	0.200
(S) 1,4-Bromofluorobenzene	*105*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4171318-1 01/28/25 09:03 • (LCSD) R4171318-2 01/28/25 09:31

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	3.68	3.62	98.1	96.5	70.0-130			1.64	25
Ethylbenzene	3.75	3.17	3.17	84.5	84.5	70.0-130			0.000	25
Toluene	3.75	3.47	3.40	92.5	90.7	70.0-130			2.04	25
m&p-Xylene	7.50	7.62	7.51	102	100	70.0-130			1.45	25
o-Xylene	3.75	3.89	3.89	104	104	70.0-130			0.000	25
(S) 1,4-Bromofluorobenzene				*121*	*118*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

M110

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder

Sample Receipt Checklist

COC Seal Present/Intact: Y N Airs 6
COC Signed/Accurate: Y N Size: 1L 6L 1.4L
Bottles arrive intact: Y N Tage Color: G W P B
Correct bottles used: Y N Tubing Shunt
Unused:
T/P#:

Company Name: Apex Companies, LLC - Portland, OR	Contact/Report To: Kara Master
Street Address: 15618 SW 72nd Ave.	Phone #: 503-924-4704
	E-Mail: Kara.E.MASTER@deq.oregon.gov
City, State Zip: Tigard, OR 97224	Cc E-Mail: carmen.owens@apexcos.com
Customer Project #: 24005460	Invoice to: Apex Companies, LLC
Project Name: DEQ Ellis	Invoice E-Mail: carmen.owens@apexcos.com
Site Collection Info/Facility ID (as applicable): DEQ Ellis	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [X] PT [ ] MT [ ] CT [ ] ET	State origin of sample(s): Oregon

Data Deliverables: [ ] Level II [X] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other

Permit # as applicable:

Date Results Requested:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Field Information

Analyses Requested

Lab Use Only

Proj. Manager:

AcctNum / Client ID:

Table #:

Profile / Template:

Prelog / Bottle Ord. ID: P1026203

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate m^3/min or L/min	PUF / FILTER: Total Volume Sampled m^3 or L	TO-15 Summa				Sample Comment
VP-J (5)	SV	13958	28951	1/24/25	10:21	1/24/25	10:59	-28	-3			2L	X				L1820206-01
VP-J (15)	SV	14373	13487	1/24/25	10:23	1/24/25	11:00	-30	-3.5			2L	X				02
SV-12	SV	13098	7780	1/24/25	10:34	1/24/25	11:16	-30	-3			2L	X				03
VP-C	SV	14018	22674	1/24/25	11:30	1/24/25	12:15	-30	-4.5			2L	X				04
VP-D	SV	21155	13172	1/24/25	10:45	1/24/25	11:13	-30	-3			2L	X				05
DUP	SV	10606	10993	1/24/25	11:14	1/24/25	11:47	-30	-3			2L	X				06

Customer Remarks / Special Conditions / Possible Hazards:

Collected By: Christine Weer
Printed Name: Christine Weer
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): AMB Corrected Temp. (°C):

Relinquished by/Company: (Signature) Apex Companies, LLC Chris Weer	Date/Time: 1/24/25, 14:00	Received by/Company: (Signature)	Date/Time:	Tracking Number: Multi
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: In- Person Courier FedEX UPS Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 1/25 0900	Page: 1 of: 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

L# L1820206

Fed Ex tracking #	Gun ID	Temperature
4072 9205 6255	N/A	AMB
4072 9205 6244	↓	↓

Elijah Wilson
Name

01/25
Date

Appendix B

Historical Data Tables and Trend Plots

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement
Date	7/31/2012	7/31/2012	8/12/2013	8/12/2013	11/4/2013	11/4/2013	2/3/2014	2/3/2014	4/2/2014	4/3/2014	5/12/2014	5/12/2014	7/16/2014	7/16/2014
Benzene	**0.38**	**0.12**	**0.45**	**0.42**	< 0.64	< 1.0	**0.20**	**0.13**	**0.38**	< 0.64	**0.48**	**0.45**	**0.23 M**	**0.35 M**
Carbon Tetrachloride	< 0.5	**0.07**	**0.59**	**0.53**	< 1.3	< 1.3	< 0.13	< 0.13	**0.48**	< 1.3	**0.54**	**0.52**	**0.37**	**0.45**
Chloroethane	< 0.42	< 0.11	< 0.11	< 0.11	< 0.53	< 0.53	< 0.11	< 0.11	< 0.21	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11
Chloroform	**0.5**	**0.58**	**0.40**	**0.40**	< 0.97	< 0.97	< 0.097	< 0.097	**0.29**	< 0.97	**0.32**	**0.30**	**0.13**	**0.17**
Chloromethane	**1.0**	**0.99**	**0.95**	**1.00**	**0.81**	**0.81**	**0.41**	**0.29**	**1.1**	**1.2**	**0.95**	**0.95**	**0.91**	**1.1**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.62	< 0.15	< 0.15	< 0.15	< 1.5	< 1.5	< 0.15	< 0.15	< 0.31	< 1.5	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	< 0.48	< 0.12	< 0.12	< 0.12	< 1.2	< 1.2	< 0.12	< 0.12	< 0.24	< 1.2	< 0.12	< 0.12	< 0.12	< 0.12
1,2-Dichloroethane	--	--	--	--	<0.81	<0.81	--	--	--	<0.81	--	--	--	--
1,1-Dichloroethane	< 0.32	< 0.08	< 0.080	< 0.080	< 0.81	< 0.80	< 0.08	< 0.08	< 0.16	< 0.80	< 0.080	< 0.080	< 0.080	< 0.080
1,1-Dichloroethene	< 0.32	< 0.079	< 0.079	< 0.079	< 0.79	< 0.79	< 0.079	< 0.079	< 0.16	< 0.79	< 0.79	< 0.079	< 0.079	< 0.079
cis-1,2-Dichloroethene	< 0.32	< 0.079	< 0.079	< 0.079	< 0.79	< 0.79	< 0.079	< 0.079	< 0.16	< 0.79	< 0.79	< 0.079	< 0.079	**0.67**
trans-1,2-Dichloroethene	< 0.32	< 0.079	< 0.079	< 0.079	< 0.79	< 0.79	< 0.079	< 0.079	< 0.16	**2.4**	**0.13**	**0.16**	< 0.079	< 0.079
1,2-Dichloropropane	< 0.55	< 0.14	< 0.14	< 0.14	< 0.92	< 0.92	< 0.14	< 0.14	< 0.28	< 0.92	< 0.14	< 0.14	< 0.14	< 0.14
cis-1,3-Dichloropropene	< 0.36	< 0.091	< 0.091	< 0.091	< 0.91	< 0.91	< 0.091	< 0.091	< 0.18	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091
trans-1,3-Dichloropropene	< 0.54	< 0.14	< 0.14	< 0.14	< 0.91	< 0.91	< 0.14	< 0.14	< 0.27	< 0.91	< 0.14	< 0.14	< 0.14	< 0.14
Ethylbenzene	**0.78**	**0.82**	**0.32**	**0.29**	< 0.87	< 0.87	**0.14**	< 0.13	< 0.26	< 0.87	**0.22**	**0.23**	**0.25**	**0.26**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.55	< 0.14	< 0.14	< 0.14	< 1.4	< 1.4	< 0.14	< 0.14	< 0.27	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethylene	**46**	**38**	**81**	**68**	**53**	**63**	**10**	**6.8**	**21**	**21**	**8.1**	**7.5**	**0.44**	**0.57**
1,1,1-Trichloroethane	< 0.44	< 0.11	< 0.11	< 0.11	< 1.1	< 1.1	< 0.11	< 0.11	< 0.22	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	< 0.65	< 0.16	< 0.16	< 0.16	< 1.1	< 1.1	< 0.16	< 0.16	< 0.33	< 1.1	< 0.16	< 0.16	< 0.16	< 0.16
Trichloroethylene	< 0.43	< 0.11	< 0.11	< 0.11	< 1.1	< 1.1	< 0.11	< 0.11	< 0.21	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.20	< 0.051	< 0.051	< 0.051	< 0.51	< 0.51	< 0.051	< 0.051	< 0.10	< 0.51	< 0.051	< 0.051	< 0.051	< 0.051
Vinyl Acetate	< 0.28	< 0.07	< 0.070	< 0.070	< 0.87	< 1.7	< 0.07	< 0.07	< 0.14	< 0.70	< 0.070	< 0.070	< 0.070	< 0.070

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement
Date	9/15/2014	9/15/2014	11/10/2014	11/10/2014	3/16/2015	3/16/2015	6/16/2015	6/16/2015	9/14/2015	12/14/2015	12/14/2015	3/7/2016	3/7/2016	6/6/2016
Benzene	**0.38**	**0.35**	**1.2**	**1.8**	**0.70**	**0.77**	**0.73**	**0.17**	**0.289**	**0.767 M**	**0.483 M**	**0.573**	**0.734**	**0.545**
Carbon Tetrachloride	**0.36**	**0.37**	**0.49**	**0.47**	**0.57**	**0.59**	**0.47**	**0.38**	**0.370**	**0.361**	**0.368**	**0.263**	**0.202**	**0.672**
Chloroethane	< 0.11	< 0.11	< 0.11	**0.61**	< 0.11	< 0.11	< 0.11	< 0.11	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106
Chloroform	**0.13**	< 0.097	**0.73**	< 0.097	**0.48**	**0.46**	< 0.097	**0.46**	**0.158**	**0.295**	**0.302**	< 0.0973	< 0.0973	**0.381**
Chloromethane	**0.76**	**0.58**	**1.1**	**1.7**	**1.4**	**1.4**	**1.4**	**1.3**	**0.752**	**0.919**	**0.935**	**1.08**	**1.86**	**1.52**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154
1,4-Dichlorobenzene	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802
1,1-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
cis-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
trans-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
1,2-Dichloropropane	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139
cis-1,3-Dichloropropene	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908
trans-1,3-Dichloropropene	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136
Ethylbenzene	**0.27**	**0.29**	**2.3**	**4.3**	**0.36**	**0.37**	**2.3**	< 0.13	**0.218**	**0.292**	**0.296**	**0.891**	**1.70**	**0.587**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137
Tetrachloroethylene	**0.24**	**0.26**	**2.5**	**1.8**	**0.16**	**0.15**	**0.24**	< 0.14	**0.190**	**0.340**	**0.224**	**0.234**	**0.184**	**0.257 M**
1,1,1-Trichloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109
1,1,2-Trichloroethane	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163
Trichloroethylene	< 0.11	< 0.11	< 0.11	< 0.11	**0.24**	**0.17**	< 0.11	< 0.11	< 0.107	**2.23**	< 0.107	< 0.107	< 0.107	**0.112**
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511
Vinyl Acetate	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	**0.263**

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement
Date	6/6/2016	9/14/2016	9/14/2016	12/13/2016	12/13/2016	3/30/2017	3/30/2017	6/26/2017	6/26/2017	9/29/2017	9/29/2017	11/20/2017	11/20/2017	2/8/2018
Benzene	**0.464**	**0.745**	**0.273**	**0.869**	**0.825**	**0.458**	**0.500**	**0.249**	**0.228**	**0.598**	**0.590**	**0.709**	**0.679**	**1.09**
Carbon Tetrachloride	**0.725**	**0.451**	**0.382**	**0.480**	**0.514**	**0.493**	**0.535**	**0.316**	**0.305**	**0.589**	**0.624**	**0.496**	**0.514**	**0.419**
Chloroethane	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106
Chloroform	0.342	**0.212**	**0.204**	**0.314**	**0.307**	**0.335**	**0.351**	**0.581**	**0.586**	**0.321**	**0.329**	**0.756**	**0.752**	**0.312**
Chloromethane	**1.47**	**1.23**	**1.16**	**1.33**	**1.27**	**1.35**	**1.52**	**1.03**	**1.21**	**1.32**	**1.32**	**1.42**	**1.36**	**1.13**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154
1,4-Dichlorobenzene	< 0.120	< 0.120	< 0.120	< 0.120	< 0.481	**0.936 J**	**1.59 J**	<0.120	<0.120	**0.471**	<0.12	<0.12	<0.12	<0.12
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	<0.0810	<0.0810	**0.102**	<0.0810	<0.081
1,1-Dichloroethane	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802
1,1-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
cis-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
trans-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
1,2-Dichloropropane	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139
cis-1,3-Dichloropropene	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908
trans-1,3-Dichloropropene	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136
Ethylbenzene	**0.22**	**0.316**	< 0.130	**0.387**	< 0.520	**0.331**	<0.52	**0.170**	**0.180**	**0.445 J**	**0.258 J**	**2.16 J**	**0.493 J**	**0.720**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.137	< 0.137	< 0.137	< 0.137	< 0.550	<0.137	<0.55	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137
Tetrachloroethylene	< 0.136	**0.704**	< 0.136	**0.183**	**0.192**	**0.171**	**0.198**	<0.136	**0.229**	**0.345**	**0.332**	**0.303**	**0.275**	**0.583**
1,1,1-Trichloroethane	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109
1,1,2-Trichloroethane	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163
Trichloroethylene	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	<0.107	<0.107	<0.107	<0.107	**0.176**	**0.133**	<0.107	<0.107	**0.436 J**
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511
Vinyl Acetate	**0.100**	**0.243**	**0.0842**	< 0.0704	< 0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement
Date	2/8/2018	5/21/2018	5/21/2018	8/3/2018	8/3/2018	11/19/2018	11/19/2018	3/18/2019	3/18/2019	5/13/2019	5/13/2019	8/19/2019	8/19/2019	11/4/2019
Benzene	**1.08**	**0.364**	**0.366**	**0.262**	**0.240**	**0.690**	**0.624**	**0.46**	**0.49**	**0.49**	**0.47**	**0.529**	**0.487**	**0.76**
Carbon Tetrachloride	**0.370**	**0.480**	**0.478**	**0.467**	**0.462**	**0.571**	**0.572**	**0.53**	**0.53**	**0.53**	**0.54**	**0.484**	**0.49**	**0.312**
Chloroethane	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.42	<0.46	<0.48	<0.47	<0.106	<0.106	<0.106
Chloroform	**0.298**	**0.622**	**0.626**	**0.183**	**0.181**	<0.0973	**0.287**	**0.41 J**	**0.41 J**	**0.44**	**0.44**	<0.0973	<0.0973	0.56
Chloromethane	**1.05**	**1.12**	**1.11**	**0.888**	**0.842**	**0.926**	**0.920**	**0.89**	**0.94**	**1.20**	**1.10**	**1.42**	**1.44**	**1.02**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.11	<0.12	<0.13	<0.13	<0.154	<0.154	<0.154
1,4-Dichlorobenzene	<0.12	<0.120	<0.120	<0.120	<0.120	<0.120	<0.120	<1.6	<1.8	<1.8	<1.8	<0.120	<0.120	<0.120
1,2-Dichloroethane	<0.081	0.082	<0.0810	<0.0810	<0.0810	**0.0836**	<0.0810	**0.099 J**	**0.099 J**	**0.099**	**0.095**	<0.0810	<0.0810	<0.0810
1,1-Dichloroethane	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.039	<0.042	<0.044	<0.043	<0.0802	<0.0802	<0.0802
1,1-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.056	**0.061 J**	<0.064	<0.063	<0.0793	<0.0793	<0.0793
cis-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.043	<0.047	<0.049	<0.048	<0.0793	<0.0793	<0.0793
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.060	<0.065	<0.068	<0.066	<0.0793	<0.0793	<0.0793
1,2-Dichloropropane	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.047	**0.053 J**	**0.053 J**	<0.052	<0.139	<0.139	<0.139
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	**0.368**	**0.368**	**0.061 J**	<0.063	<0.066	<0.064	<0.0908	<0.0908	<0.0908
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	<0.136	<0.136	**0.191**	**0.203**	<0.066	<0.072	<0.075	<0.073	<0.136	<0.136	<0.136
Ethylbenzene	**0.754**	**0.423**	**0.443**	**0.264**	**0.309**	**0.462**	**0.352**	**1.0 J**	**1.1 J**	<0.56	<0.55	**0.261**	**0.235**	**0.306**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.090	<0.098	<0.10	<0.10	<0.137	<0.137	<0.137
Tetrachloroethylene	**0.569**	<0.136	<0.136	<0.136	<0.136	**2.07**	**2.15**	**1.2**	**1.1**	**0.13**	**0.13**	**0.322 M**	**0.147 M**	**0.706**
1,1,1-Trichloroethane	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.058	<0.063	<0.066	<0.064	<0.109	<0.109	<0.109
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.060	<0.065	<0.068	<0.066	<0.163	<0.163	<0.163
Trichloroethylene	**0.251 J**	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.079	<0.086	<0.090	<0.088	<0.107	<0.107	<0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.037	<0.040	<0.49	<0.48	<0.0511	<0.0511	<0.0511
Vinyl Acetate	**0.0741**	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	**0.57 J**	<0.47	<0.042	<0.041	<0.0704	<0.0704	<0.0704

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement
Date	11/4/2019	2/24/2020	2/24/2020	11/3/2020	11/3/2020	1/25/2021	1/25/2021	8/31/2021	8/31/2021	2/2/2022	2/2/2022	7/18/2022	7/18/2022	8/18/2022
Benzene	**0.786**	**0.696**	**0.62**	--	--	--	--	**0.65 J+**	**0.68 J+**	**1.2 J+**	**1.2 J+**	**0.53**	**0.51**	**1.0 E**
Carbon Tetrachloride	**0.312**	**0.496**	**0.484**	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--	--	--	--
Chloroform	0.55	**0.623**	**0.618**	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	**1.11**	**1.21**	**1.00**	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	--	--	--	--	--	--	--	**0.14**	**0.12**	**0.35**	**0.34**	**0.31**	**0.32**	<0.036
1,2-Dibromoethane	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	<0.0802	<0.0802	<0.0802	<0.0086	<0.0086	<0.0099	<0.0099	--	--	--	--	--	--	--
1,1-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0086	<0.0086	<0.0099	<0.0099	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0086	<0.0086	<0.0099	<0.0099	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0086	<0.0086	<0.0099	<0.0099	--	--	--	--	--	--	--
1,2-Dichloropropane	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	**0.321**	**0.361**	**0.350**	--	--	--	--	**0.46**	**0.48**	**0.52**	**0.52**	**0.82**	**0.81**	**1.7 E**
Toluene	--	--	--	--	--	--	--	**1.1**	**1.1**	**3.0 E**	**3.0 E**	**5.0 E**	**4.9 E**	**5.3 J**
Styrene	--	--	--	--	--	--	--	**0.28 M**	**0.41 M**	**0.30**	**0.32**	**0.45**	**0.44**	**0.85 M**
1,1,2,2-Tetrachloroethane	<0.137	<0.137	<0.137	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	**0.726**	<0.136	<0.136	**1.7**	**1.7**	**1.4**	**0.93**	**0.056**	**0.056**	**0.22**	**0.21**	**0.072**	**0.068**	**0.16**
1,1,1-Trichloroethane	<0.109	<0.109	<0.109	<0.0086	<0.0086	**0.011**	**0.011**	<0.057	<0.057	<0.049	<0.049	<0.050	<0.050	<0.049
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--	--	--	--
Trichloroethylene	<0.107	<0.107	<0.107	**0.022**	**0.023**	**0.020**	**0.032**	<0.021	<0.021	<0.018	<0.018	<0.018	<0.018	<0.018
m,p-Xylene	--	--	--	--	--	--	--	**1.4**	**1.5**	**1.6**	**1.6**	**2.5 E**	**2.5 E**	**5.3 E**
o-Xylene	--	--	--	--	--	--	--	**0.51**	**0.52**	**0.54**	**0.54**	**0.80**	**0.79**	**1.7 E**
Vinyl Chloride	<0.0511	<0.0511	<0.0511	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	<0.0704	<0.0704	<0.0704	--	--	--	--	--	--	--	--	--	--	--

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy DUP Basement	Liddy Basement	Liddy Basement	Liddy First Foor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor
Date	8/18/2022	1/25/2023	1/25/2023	4/10/2023	4/10/2023	8/29/2023	8/29/2023	7/31/2024	1/24/2025	7/31/2012	11/4/2013	2/3/2014	4/3/2014	5/12/2014
Benzene	**1.6 E**	**1.1**	**1.1**	**1.5 M**	**0.82 M**	0.58	**0.70**	<0.50	**0.92**	**0.32**	< 0.64	**0.51**	**0.45**	**0.45**
Carbon Tetrachloride	--	--	--	--	--	--	--	**0.260**	**0.290**	**0.47**	< 1.3	**0.33**	**0.48**	**0.49**
Chloroethane	--	--	--	--	--	--	--	--	--	< 0.11	< 0.53	< 0.11	< 0.11	< 0.11
Chloroform	--	--	--	--	--	--	--	**0.260**	**0.230**	**0.27**	< 0.97	**0.27**	**0.25**	**0.33**
Chloromethane	--	--	--	--	--	--	--	--	--	**1.10**	**0.81**	**0.95**	**1.1**	**0.95**
Cyclohexane	<0.036	**0.40**	**0.44**	**0.33 J+**	**0.32 J+**	**0.36**	**0.46**	**0.69**	**0.60**	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--	--	--	< 0.15	< 1.5	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	--	--	--	--	--	--	--	<0.19	<0.19	< 0.12	< 1.2	< 0.12	< 0.12	< 0.12
1,2-Dichloroethane	--	--	--	--	--	--	--	<0.13	<0.13	--	<0.81	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	< 0.08	< 0.80	< 0.080	< 0.080	< 0.080
1,1-Dichloroethene	--	--	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	< 0.079
cis-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	< 0.079
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	**5.9**
1,2-Dichloropropane	--	--	--	--	--	--	--	--	--	< 0.14	< 0.92	< 0.14	< 0.14	< 0.14
cis-1,3-Dichloropropene	--	-	--	--	--	--	--	--	--	< 0.091	< 0.91	< 0.091	< 0.091	< 0.091
trans-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	< 0.14	< 0.91	< 0.14	< 0.14	< 0.14
Ethylbenzene	**1.9 E**	**0.66**	**0.63**	**0.54**	**0.46**	**0.68**	**0.73**	**0.28**	**0.35**	**0.48**	< 0.87	**0.33**	**0.30**	**0.52**
Toluene	**5.4 J**	**3.1 J**	**3.0 J**	**3.1**	**3.0**	**6.1**	**6.6**	**4.4**	**2.9**	--	--	--	--	--
Styrene	**1.2 E,M**	**0.32**	**0.31**	**0.47 M**	**0.24 M**	**0.31**	**0.33**	<0.16	<0.16	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	--	< 0.14	< 1.4	< 0.14	< 0.14	< 0.14
Tetrachloroethylene	**0.16**	**0.99**	**0.96**	**0.57**	**0.55**	**0.16**	**0.16**	<0.17	**1.2**	**1.8**	**15**	**12**	**13**	**1.7**
1,1,1-Trichloroethane	<0.049	<0.050	<0.050	<0.049	<0.049	<0.050	<0.050	<0.16	<0.16	< 0.11	< 1.1	< 0.11	< 0.11	**0.21**
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	< 0.16	< 1.1	< 0.16	< 0.16	< 0.16
Trichloroethylene	<0.018	**0.032**	**0.033**	<0.018	<0.018	<0.018	<0.018	<0.14	<0.14	< 0.11	< 1.1	< 0.11	< 0.11	< 0.11
m,p-Xylene	**5.7 E**	**2.0 E**	**1.9 E**	**1.4**	**1.4**	**2.2**	**2.3**	**0.9**	**1.2**	--	--	--	--	--
o-Xylene	**1.9 E**	**0.73**	**0.71**	**0.52**	**0.49**	**0.70**	**0.74**	**0.24**	**0.40**	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	--	--	--	< 0.051	< 0.51	< 0.051	< 0.051	< 0.051
Vinyl Acetate	--	--	--	--	--	--	--	--	--	< 0.07	< 1.7	< 0.07	< 0.070	< 0.070

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy DUP First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor
Date	7/16/2014	9/15/2014	11/10/2014	3/16/2015	6/16/2015	9/14/2015	9/14/2015	12/14/2015	3/7/2016	6/6/2016	9/14/2016	12/13/2016	3/30/2017	6/26/2017
Benzene	**0.38**	**0.38**	**0.96**	**0.89**	**1.2**	**0.326**	**0.373**	**0.627**	**1.59**	**0.40**	**0.846**	**0.618**	**0.596**	**0.352**
Carbon Tetrachloride	**0.47**	**0.37**	**0.51**	**0.57**	**0.54**	**0.384**	**0.412**	**0.366**	< 1.26	**0.55**	**0.474**	**0.454**	**0.530**	**0.414**
Chloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.106	< 0.106	< 0.106	< 0.528	< 0.528	< 0.106	< 0.106	<0.106	<0.106
Chloroform	**0.15**	**0.12**	**1.0**	**0.54**	< 0.097	**0.203**	**0.234**	**0.302**	< 0.973	**0.382**	< 0.0973	**0.280**	**0.370**	**0.439**
Chloromethane	**1.1**	**0.70**	**0.91**	**1.3**	**1.4**	**0.813**	**0.880**	**1.06**	**1.63**	**1.34**	**1.20**	**1.11**	**1.49**	**1.05**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154	< 0.154	< 1.54	< 1.54	< 0.154	< 0.154	<0.154	<0.154
1,4-Dichlorobenzene	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120	< 0.120	< 1.20	< 1.20	< 0.120	< 0.120	**2.45**	<0.120
1,2-Dichloroethane	--	--	--	--	--	--	--	--	<0.81	--	--	--	--	--
1,1-Dichloroethane	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802	< 0.0802	< 0.802	< 0.802	< 0.0802	< 0.0802	<0.0802	<0.0802
1,1-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.793	< 0.793	< 0.0793	< 0.0793	<0.0793	<0.0793
cis-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	**0.138**	< 0.793	< 0.793	< 0.0793	< 0.0793	<0.0793	<0.0793
trans-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.793	< 0.793	< 0.0793	< 0.0793	<0.0793	<0.0793
1,2-Dichloropropane	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.139	< 0.139	< 0.139	< 0.924	< 0.924	< 0.139	< 0.139	<0.139	<0.139
cis-1,3-Dichloropropene	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908	< 0.0908	< 0.0908	< 0.908	< 0.908	< 0.0908	< 0.0908	<0.0908	<0.0908
trans-1,3-Dichloropropene	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136	< 0.136	< 0.908	< 0.908	< 0.136	< 0.136	<0.136	<0.136
Ethylbenzene	**0.39**	**0.40**	**1.3**	**0.48**	**4.8**	**0.261**	**0.272**	**0.422**	**1.19**	**0.621**	**1.57**	**0.280**	**0.517**	**1.77**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137	< 0.137	< 1.37	< 1.37	< 0.137	< 0.137	<0.137	<0.137
Tetrachloroethylene	< 0.14	**0.30**	**1.4**	**0.16**	**0.75**	**0.186**	**0.202**	**0.272**	< 1.36	**0.217 M**	**0.402**	< 0.136	**0.206**	<0.136
1,1,1-Trichloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109	< 0.109	< 1.09	< 1.09	< 0.109	< 0.109	<0.109	<0.109
1,1,2-Trichloroethane	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163	< 0.163	< 1.09	< 1.09	< 0.163	< 0.163	<0.163	<0.163
Trichloroethylene	< 0.11	< 0.11	< 0.11	**0.11**	< 0.11	< 0.107	< 0.107	< 0.107	**6.37**	< 0.107	**0.124**	< 0.107	<0.107	<0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.511	< 0.511	< 0.0511	< 0.0511	<0.0511	<0.0511
Vinyl Acetate	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.0704	< 0.0704	< 0.0704	< 0.704	**0.256**	**0.440**	< 0.0704	<0.0704	<0.0704

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor
Date	9/27/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/3/2020	1/25/2021	8/31/2021
Benzene	**0.597**	**0.682**	**1.26**	**0.370**	**0.244**	**0.611**	**0.49**	**0.49**	**0.372**	**1.540**	**0.767**	--	--	**0.77 J+**
Carbon Tetrachloride	**0.573**	**0.472**	**0.492**	**0.484**	**0.453**	**0.600**	**0.54**	**0.47**	**0.488**	**0.4**	**0.528**	--	--	--
Chloroethane	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.48	<0.47	<0.106	<0.106	<0.106	--	--	--
Chloroform	**0.376**	**0.972**	**0.567**	**0.581**	**0.197**	**0.373**	**0.47J**	**0.61**	<0.0973	<0.0973	**0.662**	--	--	--
Chloromethane	**1.39**	**1.39**	**1.08**	**1.12**	**0.819**	**1.07**	**1.0**	**1.1**	**1.21**	**1.41**	**1.03**	--	--	--
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.13**
1,2-Dibromoethane	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.13	<0.13	<0.154	<0.154	<0.154	--	--	--
1,4-Dichlorobenzene	<0.12	<0.12	<0.12	<0.120	<0.120	<0.120	<1.8	<1.8	<0.120	<0.120	<0.120	--	--	--
1,2-Dichloroethane	<0.0810	<0.0810	**0.0971**	<0.0810	<0.0810	<0.0810	**0.10 J**	**0.095**	<0.0810	<0.0810	<0.0810	--	--	--
1,1-Dichloroethane	<0.0802	<0.0802	**0.122**	<0.0802	<0.0802	<0.0802	<0.044	<0.043	<0.0802	<0.0802	<0.0802	<0.0086	<0.0087	--
1,1-Dichloroethene	<0.0793	<0.0793	**0.122**	<0.0793	<0.0793	<0.0793	<0.064	<0.063	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--
cis-1,2-Dichloroethene	**0.104**	<0.0793	**0.296**	<0.0793	<0.0793	<0.0793	<0.049	<0.048	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.068	<0.066	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--
1,2-Dichloropropane	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.053	<0.052	<0.139	<0.139	<0.139	--	--	--
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	**0.373**	**0.068 J**	<0.064	<0.0908	<0.0908	<0.0908	--	--	--
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	<0.136	<0.136	**0.209**	<0.075	<0.073	<0.136	<0.136	<0.136	--	--	--
Ethylbenzene	**0.331**	**0.573**	**0.865**	**0.666**	**0.216**	**0.348**	**1.1 J**	<0.55	**0.2**	**1.25**	**0.442**	--	--	**0.27**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.95**
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.21**
1,1,2,2-Tetrachloroethane	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.10	<0.10	<0.137	<0.137	<0.137	--	--	--
Tetrachloroethylene	**0.381**	**0.256**	**0.531**	<0.136	<0.136	**1.44**	**0.59**	<0.11	<0.136	**0.475**	<0.136	**1.0**	**0.79**	**0.042**
1,1,1-Trichloroethane	<0.109	<0.109	**3.21**	<0.109	<0.109	<0.109	<0.066	<0.064	<0.109	<0.109	<0.109	**0.0090**	**0.0087**	<0.057
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.068	<0.066	<0.163	<0.163	<0.163	--	--	--
Trichloroethylene	**0.132**	<0.107	**5.20**	<0.107	<0.107	<0.107	<0.090	<0.088	<0.107	<0.107	<0.107	**0.025**	**0.021**	<0.021
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.76**
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.30**
Vinyl Chloride	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.042	<0.48	<0.0511	<0.0511	<0.0511	--	--	--
Vinyl Acetate	<0.0704	<0.0704	**0.0751**	<0.0704	<0.0704	<0.0704	<0.49	<0.041	<0.0704	0.0916	**0.0968**	--	--	--

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor
Date	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/3/2023	8/29/2023	4/3/2014	5/12/2014	7/16/2014	9/15/2014	11/10/2014	3/16/2015	6/16/2015	9/14/2015
Benzene	**1.2 J+**	**0.68**	**0.85**	**1.2**	**0.77**	**0.71**	**0.77**	**0.57**	**0.35**	**1.2**	**0.96**	**0.67**	**0.26**	**0.386**
Carbon Tetrachloride	--	--	--	--	--	--	< 1.3	**0.48**	**0.47**	**0.50**	**0.48**	**0.57**	**0.57**	**0.416**
Chloroethane	--	--	--	--	--	--	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.106
Chloroform	--	--	--	--	--	--	< 0.97	**1.0**	**0.31**	**0.73**	**2.4**	**0.54**	< 0.097	< 0.0973
Chloromethane	--	--	--	--	--	--	**1.2**	**0.93**	**1.1**	**1.0**	**1.2**	**1.4**	**1.3**	**1.13**
Cyclohexane	**0.30**	**0.086**	<0.036	**0.35**	**0.20 J+**	**0.15**	--	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	< 1.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154
1,4-Dichlorobenzene	--	--	--	--	--	--	< 1.2	< 0.12	**0.21**	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120
1,2-Dichloroethane	--	--	--	--	--	--	<0.81	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	< 0.80	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802
1,1-Dichloroethene	--	--	--	--	--	--	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793
cis-1,2-Dichloroethene	--	--	--	--	--	--	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793
trans-1,2-Dichloroethene	--	--	--	--	--	--	< 0.79	**0.25**	< 0.079	< 0.079	< 0.079	**0.095**	< 0.079	< 0.0793
1,2-Dichloropropane	--	--	--	--	--	--	< 0.92	< 0.14	< 0.14	**4.6**	< 0.14	< 0.14	< 0.14	< 0.139
cis-1,3-Dichloropropene	--	--	--	--	--	--	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908
trans-1,3-Dichloropropene	--	--	--	--	--	--	< 0.91	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136
Ethylbenzene	**0.56**	**0.30**	**0.58**	**0.73**	**0.46**	**0.31**	< 0.87	**1.1**	**0.36**	**3.0**	**2.2**	**0.56**	**0.25**	< 0.130
Toluene	**2.6 E**	**1.6**	**2.6 E**	**2.9 J**	**2.3**	**1.6**	--	--	--	--	--	--	--	--
Styrene	**0.35**	**0.30**	**0.44**	**0.41**	**0.24**	**0.22**	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137
Tetrachloroethylene	**0.190**	**0.044**	**0.10**	**1.2**	**0.71**	**0.10**	**12**	**2.0**	**2.2**	**12**	**1.4**	< 0.14	< 0.14	< 0.136
1,1,1-Trichloroethane	<0.049	<0.050	<0.049	<0.050	<0.049	<0.050	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109
1,1,2-Trichloroethane	--	--	--	--	--	--	< 1.1	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163
Trichloroethylene	<0.018	<0.018	<0.018	**0.035**	<0.018	<0.018	< 1.1	< 0.11	< 0.11	**0.17**	< 0.11	< 0.11	< 0.11	< 0.107
m,p-Xylene	**1.7**	**0.82**	**1.6 E**	**2.1 E**	**1.4**	**0.9**	--	--	--	--	--	--	--	--
o-Xylene	**0.57**	**0.30**	**0.60**	**0.79**	**0.48**	**0.34**	--	--	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	< 0.51	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511
Vinyl Acetate	--	--	--	--	--	--	< 0.70	< 0.070	< 0.070	**0.15**	< 0.070	< 0.070	< 0.070	< 0.0704

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor
Date	12/14/2015	3/7/2016	6/6/2016	9/14/2016	12/13/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019
Benzene	**0.571**	**0.684**	**0.514**	**0.482**	**0.563**	**0.548**	**0.369**	**0.599**	**0.676**	**1.26**	**0.392**	**0.224**	**0.613**	**0.51**
Carbon Tetrachloride	**0.36**	**0.266**	**0.542**	**0.514**	**0.482**	**0.515**	**0.448**	**0.565**	**0.522**	**0.468**	**0.484**	**0.458**	**0.600**	**0.54**
Chloroethane	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.48
Chloroform	**0.317**	< 0.0973	**0.197**	**0.128**	**0.638**	**0.336**	**0.353**	<0.0973	**1.16**	**1.24**	**0.513**	**0.139**	**0.421**	**0.49 J**
Chloromethane	**0.873**	**0.851**	**1.74**	**1.11**	**1.09**	**1.45**	**0.983**	**1.43**	**1.39**	**1.12**	**1.14**	**0.859**	**0.973**	**0.98**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.13
1,4-Dichlorobenzene	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	**4.61**	<0.120	<0.12	<0.12	<0.12	<0.120	<0.120	<0.120	<1.8
1,2-Dichloroethane	--	--	--	--	--	--	--	<0.0810	**0.0842**	<0.081	<0.0810	<0.0810	<0.0810	**0.099 J**
1,1-Dichloroethane	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.044
1,1-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.064
cis-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.049
trans-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.068
1,2-Dichloropropane	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.053
cis-1,3-Dichloropropene	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	**0.362**	**0.069 J**
trans-1,3-Dichloropropene	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	**0.199**	<0.075
Ethylbenzene	**0.37**	**1.20**	**0.35**	**0.483**	**0.477**	**0.891**	**0.263**	**0.844**	**0.761**	**1.24**	**0.782**	**0.445**	**0.658**	**1.3 J**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.10
Tetrachloroethylene	**0.213**	**1.18**	< 0.136	**0.455**	< 0.136	**0.462**	<0.136	**0.208**	**0.337**	**0.430**	<0.136	**0.313**	**1.50**	**0.66**
1,1,1-Trichloroethane	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	<0.109	<0.109	<0.109	<0.109	**0.662**	<0.109	<0.109	<0.109	<0.066
1,1,2-Trichloroethane	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.068
Trichloroethylene	< 0.107	**0.189**	< 0.107	< 0.107	< 0.107	<0.107	**0.137**	<0.107	<0.107	**1.08**	<0.107	<0.107	<0.107	<0.090
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.042
Vinyl Acetate	< 0.0704	< 0.0704	**0.0817**	**0.0951**	< 0.0704	**0.171**	<0.0704	**0.0769**	<0.0704	**0.197**	<0.0704	<0.0704	<0.0704	<0.49

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor	Liddy Second Floor
Date	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/3/2020	1/25/2021	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/3/2023	8/29/2023
Benzene	**0.56**	**0.508**	**1.33**	**0.776**	--	--	**0.68 J+**	**1.2 J+**	**0.58**	**1.3 E**	**1.4**	**1.5**	**1.3**
Carbon Tetrachloride	**2.1**	**0.489**	**0.400**	**0.523**	--	--	--	--	--	--	--	--	--
Chloroethane	<0.46	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--	--
Chloroform	<0.051	<0.0973	**2.60**	**0.642**	--	--	--	--	--	--	--	--	--
Chloromethane	**1.3**	**1.30**	**1.23**	**1.09**	--	--	--	--	--	--	--	--	--
Cyclohexane	--	--	--	--	--	--	**0.13**	**0.28**	**0.068**	**0.036**	**0.38**	**0.24 J+**	**0.13**
1,2-Dibromoethane	<0.12	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<1.8	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	**0.11**	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	**0.042 J**	<0.0802	<0.0802	<0.0802	<0.0086	<0.0099	--	--	--	--	--	--	--
1,1-Dichloroethene	<0.061	<0.0793	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.047	<0.0793	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	<0.065	<0.0793	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--
1,2-Dichloropropane	**0.062 J**	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	<0.063	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	<0.072	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--	--
Ethylbenzene	**1.1 J**	**0.808**	**0.780**	**0.538**	--	--	**0.44**	**0.82**	**0.38**	**1.6 E**	**0.94**	**0.74**	**0.56**
Toluene	--	--	--	--	--	--	**0.94**	**2.6 E**	**1.1**	**2.5 E**	**3.0 J**	**2.7**	**1.5**
Styrene	--	--	--	--	--	--	**0.19**	**0.36**	**0.21**	**0.65**	**0.45**	**0.50**	**0.44**
1,1,2,2-Tetrachloroethane	<0.098	<0.137	<0.137	<0.137	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	**0.13**	<0.136	**0.483**	<0.136	**0.87**	**1.3**	**0.04**	**0.20**	**0.035**	**0.082**	**1.4**	**1.1**	**0.1**
1,1,1-Trichloroethane	**0.063 J**	<0.109	<0.109	<0.109	**0.0096**	**0.010**	<0.057	<0.049	<0.050	<0.050	<0.050	<0.049	<0.050
1,1,2-Trichloroethane	<0.065	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--	--
Trichloroethylene	<0.086	<0.107	<0.107	**0.112**	**0.024**	**0.020**	<0.021	<0.018	<0.018	<0.018	**0.042**	**0.022**	<0.018
m,p-Xylene	--	--	--	--	--	--	**1.4**	**2.6 E**	**1.1**	**5.0 E**	**2.8 E**	**2.2**	**1.6**
o-Xylene	--	--	--	--	--	--	**0.48**	**0.83**	**0.37**	**1.5 E**	**1.0**	**0.71**	**0.54**
Vinyl Chloride	<0.47	<0.0511	<0.0511	<0.0511	--	--	--	--	--	--	--	--	--
Vinyl Acetate	<0.040	<0.0704	<0.0704	**0.0887**	--	--	--	--	--	--	--	--	--

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering
Date	7/30/2012	7/31/2012	8/12/2013	8/24/2013	11/6/2013	2/3/2014	11/19/2018	3/31/2014	5/12/2014	7/16/2014	9/15/2014	11/12/2014	12/9/2014	3/16/2015
Benzene	**0.67**	**0.48**	**0.77**	**2.1**	**0.7**	**0.38**	**0.572**	< 1.3	**0.23**	**0.35**	**0.86**	**0.51**	**0.61**	**0.89**
Carbon Tetrachloride	**0.44**	**0.26**	**0.45**	**0.49**	< 1.3	**0.14**	**0.633**	< 2.5	**0.48**	**0.48**	**0.36**	**0.44**	**0.47**	**0.51**
Chloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 0.53	< 0.11	<0.106	< 2.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chloroform	**0.15**	< 0.097	< 0.097	< 0.097	< 0.97	< 0.097	<0.0973	< 1.9	< 0.097	**0.11**	**0.11**	< 0.097	< 0.097	< 0.097
Chloromethane	**1.4**	**1.2**	**0.91**	**1.2**	< 0.41	**0.27**	**1.00**	< 1.2	**0.95**	**1.1**	**1.2**	**1.0**	**0.97**	**1.2**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.15	< 0.15	< 0.15	< 1.5	< 0.15	<0.154	< 3.1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	< 0.12	< 0.12	< 0.12	< 0.12	< 1.2	< 0.12	<0.120	< 2.4	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
1,2-Dichloroethane	--	--	--	--	< 0.81	--	**0.0848**	--	--	--	--	--	--	--
1,1-Dichloroethane	< 0.08	< 0.08	< 0.080	< 0.080	< 0.80	< 0.080	<0.0802	< 1.6	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
1,1-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.79	< 0.079	<0.0793	< 1.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079
cis-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.79	< 0.079	<0.0793	< 1.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079
trans-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.79	< 0.079	<0.0793	< 1.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	**5.5**
1,2-Dichloropropane	< 0.14	0.27	< 0.14	< 0.14	< 0.92	< 0.14	<0.139	< 2.8	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
cis-1,3-Dichloropropene	< 0.091	< 0.091	< 0.091	< 0.091	< 0.91	< 0.091	**0.346**	< 1.8	< 0.091	< 0.091	< 0.091	< 0.091	**0.14**	< 0.091
trans-1,3-Dichloropropene	< 0.14	< 0.14	< 0.14	< 0.14	< 0.91	< 0.14	**0.178**	< 2.7	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Ethylbenzene	**0.65**	**0.35**	**0.42**	**2.5**	< 0.87	**0.25**	**0.170**	< 2.6	**0.16**	**0.42**	**0.61**	< 0.13	**0.24**	**0.40**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.14	< 0.14	< 0.14	< 1.4	< 0.14	<0.137	< 2.7	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethylene	< 0.14	< 0.14	< 0.14	**0.16**	< 1.4	< 0.14	<0.136	**150**	< 0.14	**0.20**	**0.23**	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1	< 0.11	<0.109	< 2.2	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	< 0.16	< 0.16	< 0.16	< 0.16	< 1.1	< 0.16	<0.163	< 3.3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichloroethylene	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1	< 0.11	<0.107	< 2.1	< 0.11	< 0.11	**0.21**	< 0.11	**0.38**	< 0.11
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	< 0.051	< 0.051	**0.066**	< 0.51	< 0.051	<0.0511	< 1.0	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051
Vinyl Acetate	< 0.07	< 0.07	< 0.070	**0.14**	< 0.70	< 0.070	<0.0704	< 1.4	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering
Date	6/16/2015	9/14/2015	12/14/2015	3/7/2016	6/9/2016	9/12/2016	12/12/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018
Benzene	**0.35**	**0.368**	**0.658**	**2.66**	**0.510**	**0.410**	**0.751**	**0.812**	**0.449**	**0.705**	**0.874**	**1.50**	**0.305**	**0.333**
Carbon Tetrachloride	**0.57**	**0.338**	**0.473**	**0.364**	**0.434**	**0.513**	**0.451**	**0.551**	**0.457**	**0.535**	**0.521**	**0.512**	**0.539**	**0.466**
Chloroethane	< 0.11	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106
Chloroform	**0.11**	< 0.0973	**0.105**	< 0.0973	< 0.0973	< 0.0973	< 0.0973	<0.0973	<0.0973	<0.0973	**0.119**	**0.150**	<0.0973	**1.15**
Chloromethane	**1.4**	**0.629**	**1.02**	**0.989**	**1.36**	**1.13**	**1.07**	**1.36**	**1.06**	**1.10**	**1.38**	**0.973**	**1.12**	**0.855**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154	<0.154	<0.154	<0.120	<0.154	<0.154	<0.154	<0.154
1,4-Dichlorobenzene	< 0.12	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	<0.12	<0.120	<0.0810	<0.12	<0.12	<0.120	<0.120
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	<0.0810	<0.0810	**0.0846**	<0.0810	<0.0810
1,1-Dichloroethane	< 0.080	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802
1,1-Dichloroethene	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
cis-1,2-Dichloroethene	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
trans-1,2-Dichloroethene	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
1,2-Dichloropropane	< 0.14	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139
cis-1,3-Dichloropropene	< 0.091	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908
trans-1,3-Dichloropropene	< 0.14	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136
Ethylbenzene	**0.23**	**0.285**	**0.376**	**3.42**	**0.251**	**0.203**	**0.477**	**0.626**	**0.330**	**0.506**	**0.703**	**0.799**	**0.262**	**0.200**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137
Tetrachloroethylene	< 0.14	**0.295**	**0.194**	< 0.136	< 0.136	**0.211**	< 0.136	**0.356**	**0.425**	**0.149**	<0.136	**0.252**	**0.606**	**12.8**
1,1,1-Trichloroethane	< 0.11	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109
1,1,2-Trichloroethane	< 0.16	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163
Trichloroethylene	< 0.11	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	<0.107	<0.107	**0.121**	<0.107	**0.501**	<0.107	**0.181**
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511
Vinyl Acetate	< 0.070	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	<0.0704	<0.0704	<0.0704	<0.0704	**0.104**	<0.0704	<0.0704

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering	Background Window Covering
Date	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/25/2020	11/3/2020	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/10/2023	8/29/2023
Benzene	**0.572**	**0.36**	**0.39**	**0.229**	**0.831**	**0.795**	--	**0.84 J+**	**1.0 J+**	**0.71**	**0.96 E**	**1.1**	**0.86**	**1.00**
Carbon Tetrachloride	**0.633**	**0.54**	**0.42**	**0.488**	**0.470**	**0.576**	--	--	--	--	--	--	--	--
Chloroethane	<0.106	<0.48	<0.46	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--
Chloroform	<0.0973	<0.053	0.13	<0.0973	<0.0973	<0.0973	--	--	--	--	--	--	--	--
Chloromethane	**1.00**	**0.79**	**0.98**	**1.06**	**0.86**	**1.02**	--	--	--	--	--	--	--	--
Cyclohexane	--	--	--	--	--	--	--	**0.12**	**0.22**	**0.066**	**0.11**	**0.35**	**0.16 J+**	**0.09**
1,2-Dibromoethane	<0.154	<0.13	<0.12	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.120	<1.8	<1.8	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--
1,2-Dichloroethane	**0.0848**	**0.098 J**	0.089	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--
1,1-Dichloroethane	<0.0802	<0.044	<0.042	<0.0802	<0.0802	<0.0802	<0.0087	--	--	--	--	--	--	--
1,1-Dichloroethene	<0.0793	<0.064	<0.061	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0793	**0.049 J**	<0.047	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	<0.0793	<0.068	<0.065	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--
1,2-Dichloropropane	<0.139	<0.053	<0.051	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	**0.346**	**0.068 J**	<0.063	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	**0.178**	<0.075	<0.072	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--
Ethylbenzene	**0.170**	<0.56	<0.53	<0.130	**0.339**	**0.447**	--	**0.22**	**0.21**	**0.20**	**0.45**	**0.40**	**0.22**	**0.27**
Toluene	--	--	--	--	--	--	--	**0.79**	**1.1**	**0.75**	**1.9 E**	**1.8 E**	**0.86**	**1.00**
Styrene	--	--	--	--	--	--	--	**0.22**	**0.14**	**0.19**	**0.33**	**0.19**	**0.16 J+**	**0.27 J+**
1,1,2,2-Tetrachloroethane	<0.137	<0.10	<0.098	<0.137	<0.137	<0.137	--	--	--	--	--	--	--	--
Tetrachloroethylene	<0.136	**1.9**	**3.1**	<0.136	<0.136	**0.156**	**0.084**	**0.033**	**0.140**	**0.036**	**0.089**	**0.13**	**0.079**	**0.062**
1,1,1-Trichloroethane	<0.109	<0.066	<0.063	<0.109	<0.109	<0.109	<0.0087	<0.058	<0.049	<0.048	<0.049	<0.050	<0.049	<0.050
1,1,2-Trichloroethane	<0.163	<0.068	<0.065	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--
Trichloroethylene	<0.107	<0.090	**0.15**	<0.107	**0.113**	<0.107	**0.024**	<0.021	<0.018	<0.018	<0.018	**0.032**	<0.018	<0.018
m,p-Xylene	--	--	--	--	--	--	--	**0.57**	**0.60**	**0.52**	**1.2 E**	**1.2**	**0.6**	**0.7**
o-Xylene	--	--	--	--	--	--	--	**0.24**	**0.24**	**0.21**	**0.47**	**0.48**	**0.25**	**0.28**
Vinyl Chloride	<0.0511	<0.042	<0.47	<0.0511	<0.0511	<0.0511	--	--	--	--	--	--	--	--
Vinyl Acetate	<0.0704	<0.49	<0.040	<0.0704	<0.0704	<0.0704	--	--	--	--	--	--	--	--

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Background Window Covering	Background Window Covering	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE
Date	12/27/2023	7/31/2024	11/4/2013	4/3/2014	5/12/2014	7/16/2014	9/15/2014	11/12/2014	3/16/2015	6/16/2015	9/17/2015	12/14/2015	3/7/2016	6/9/2016
Benzene	**0.50**	<0.50	**0.83**	< 0.64	**0.22**	**0.28**	**1.2**	**0.61**	**0.96**	**0.51**	**0.386**	**0.726**	**0.722**	**3.31**
Carbon Tetrachloride	--	**0.26**	< 1.3	< 1.3	**0.48**	**0.46**	**0.44**	**0.48**	**0.57**	**0.47**	**0.371**	**0.424**	**0.358**	**0.431**
Chloroethane	--	**--**	< 0.53	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11	**0.14**	< 0.11	< 0.106	< 0.106	< 0.106	< 0.106
Chloroform	--	<0.13	< 0.97	< 0.97	< 0.097	**0.13**	< 0.097	< 0.097	< 0.097	< 0.097	< 0.0973	**0.0992**	< 0.0973	< 0.0973
Chloromethane	--	**--**	**0.87**	**0.99**	**0.93**	**1.0**	**0.85**	**1.3**	**1.6**	**1.1**	**0.792**	**0.905**	**0.979**	**1.29**
Cyclohexane	**0.095**	<0.18	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	--	**--**	< 1.5	< 1.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154	< 0.154	< 0.154
1,4-Dichlorobenzene	--	<0.19	< 1.2	< 1.2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120	< 0.120	< 0.120
1,2-Dichloroethane	--	<0.13	<0.81	<0.81	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	**--**	< 0.80	< 0.80	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802	< 0.0802	< 0.0802
1,1-Dichloroethene	--	**--**	< 0.79	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793
cis-1,2-Dichloroethene	--	**--**	< 0.79	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793
trans-1,2-Dichloroethene	--	**--**	< 0.79	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793
1,2-Dichloropropane	--	**--**	< 0.92	< 0.92	< 0.14	< 0.14	< 0.14	< 0.14	**0.88**	< 0.14	< 0.139	< 0.139	< 0.139	< 0.139
cis-1,3-Dichloropropene	--	**--**	< 0.91	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908	< 0.0908	< 0.0908	< 0.0908
trans-1,3-Dichloropropene	--	**--**	< 0.91	< 0.91	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136	< 0.136	< 0.136
Ethylbenzene	**0.11**	<0.14	< 0.87	< 0.87	**0.33**	**0.33**	**0.56**	**0.16**	**0.36**	**0.74**	**0.201**	**0.334**	**0.714**	**2.27**
Toluene	**0.53**	**0.40**	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	**0.058**	<0.16	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	**--**	< 1.4	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137	< 0.137	< 0.137
Tetrachloroethylene	**0.041**	<0.17	< 1.4	< 1.4	**0.81**	**0.14**	**0.29**	< 0.14	< 0.14	**0.18**	**0.197**	**0.479**	**0.346**	**0.19 M**
1,1,1-Trichloroethane	<0.029	<0.16	< 1.1	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109	< 0.109	< 0.109
1,1,2-Trichloroethane	--	**--**	< 1.1	< 1.1	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163	< 0.163	< 0.163
Trichloroethylene	<0.011	<0.14	< 1.1	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	**0.11**	< 0.11	< 0.107	< 0.107	< 0.107	< 0.107
m,p-Xylene	**0.33**	**0.24**	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	**0.15**	<0.15	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	--	**--**	< 0.51	< 0.51	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.0511
Vinyl Acetate	--	**--**	< 0.70	< 0.70	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	**0.13**	< 0.0704	< 0.0704	< 0.0704	< 0.0704

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE
Date	9/12/2016	12/12/2016	3/30/2017	6/26/2017	10/2/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019
Benzene	**0.433**	**0.563**	**0.919**	**0.348**	**1.01**	**0.869**	**1.56**	**0.376**	**0.230**	**0.647**	**0.35**	**0.38**	**0.315**	**0.961**
Carbon Tetrachloride	**0.519**	**0.460**	**0.538**	**0.436**	**0.526**	**0.521**	**0.535**	**0.460**	**0.451**	**0.530**	**0.54**	**0.43**	**0.497**	**0.473**
Chloroethane	< 0.106	< 0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.40	<0.37	<0.106	<0.106
Chloroform	< 0.0973	< 0.0973	<0.0973	<0.0973	<0.0973	**0.126**	**0.159**	<0.0973	<0.0973	<0.0973	<0.045	**0.11**	<0.0973	<0.0973
Chloromethane	**1.08**	**0.985**	**1.43**	**0.965**	**1.10**	**1.34**	**1.03**	**1.07**	**0.812**	**0.833**	**0.84**	**0.84**	**1.06**	**0.911**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.154	< 0.154	<0.154	<0.154	<0.120	<0.154	<0.154	<0.154	<0.154	<0.154	<0.11	<0.10	<0.154	<0.154
1,4-Dichlorobenzene	< 0.120	< 0.120	<0.481	<0.120	<0.0810	<0.12	<0.12	<0.120	<0.120	<0.120	<1.6	<1.4	<0.120	<0.120
1,2-Dichloroethane	--	--	--	--	<0.0810	<0.0810	<0.0810	0.0814	<0.0810	<0.0810	**0.098 J**	**0.079**	<0.0810	<0.0810
1,1-Dichloroethane	< 0.0802	< 0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.037	<0.035	<0.0802	<0.0802
1,1-Dichloroethene	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.054	<0.050	<0.0793	<0.0793
cis-1,2-Dichloroethene	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.042	<0.039	<0.0793	<0.0793
trans-1,2-Dichloroethene	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.057	<0.053	<0.0793	<0.0793
1,2-Dichloropropane	< 0.139	< 0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	**0.046 J**	<0.042	<0.139	<0.139
cis-1,3-Dichloropropene	< 0.0908	< 0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	**0.329**	**0.060 J**	<0.052	<0.0908	<0.0908
trans-1,3-Dichloropropene	< 0.136	< 0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	**0.174**	<0.064	<0.059	<0.136	<0.136
Ethylbenzene	**0.213**	**0.202**	**0.711**	**0.561**	**0.552**	**0.484**	**0.860**	**0.497**	**0.201**	**0.218**	**0.86 J**	<0.44	**0.141**	**0.380**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.137	< 0.137	<0.55	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.087	<0.081	<0.137	<0.137
Tetrachloroethylene	**0.272**	< 0.136	**0.677**	**0.474**	**0.140**	<0.136	**0.319**	**0.748**	**0.523**	<0.136	**0.10**	**3.0**	<0.136	<0.136
1,1,1-Trichloroethane	< 0.109	< 0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.056	<0.052	<0.109	<0.109
1,1,2-Trichloroethane	< 0.163	< 0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.057	**0.054 J**	<0.163	<0.163
Trichloroethylene	< 0.107	< 0.107	<0.107	<0.107	**0.401**	<0.107	**0.363**	<0.107	<0.107	<0.107	<0.076	**0.083**	<0.107	**0.134**
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.0511	< 0.0511	**0.0717**	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.036	<0.39	<0.0511	<0.0511
Vinyl Acetate	< 0.0704	< 0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.42	<0.033	<0.0704	<0.0704

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE	Background SVE
Date	2/24/2020	11/3/2020	1/25/2021	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/10/2023	8/29/2023	7/31/2024	1/24/2025
Benzene	**0.671**	--	--	**0.91 J+**	**0.90 J+**	**0.45**	**0.63**	**1.0**	**0.7**	**1.3**	<0.50	**0.94**
Carbon Tetrachloride	**0.567**	--	--	--	--	--	--	--	--	--	**0.24**	**0.28**
Chloroethane	<0.106	--	--	--	--	--	--	--	--	--	**--**	--
Chloroform	<0.0973	--	--	--	--	--	--	--	--	--	<0.13	<0.13
Chloromethane	**1.16**	--	--	--	--	--	--	--	--	--	**--**	--
Cyclohexane	--	--	--	**0.11**	**0.25**	**0.074**	<0.036	**0.30**	**0.18 J+**	**0.10 J+**	<0.18	**0.45**
1,2-Dibromoethane	<0.154	--	--	--	--	--	--	--	--	--	**--**	--
1,4-Dichlorobenzene	<0.120	--	--	--	--	--	--	--	--	--	<0.19	<0.19
1,2-Dichloroethane	<0.0810	--	--	--	--	--	--	--	--	--	<0.13	<0.13
1,1-Dichloroethane	<0.0802	<0.0087	<0.0099	--	--	--	--	--	--	--	**--**	--
1,1-Dichloroethene	<0.0793	<0.0087	<0.0099	--	--	--	--	--	--	--	**--**	--
cis-1,2-Dichloroethene	<0.0793	<0.0087	<0.0099	--	--	--	--	--	--	--	**--**	--
trans-1,2-Dichloroethene	<0.0793	<0.0087	<0.0099	--	--	--	--	--	--	--	**--**	--
1,2-Dichloropropane	<0.139	--	--	--	--	--	--	--	--	--	**--**	--
cis-1,3-Dichloropropene	<0.0908	--	--	--	--	--	--	--	--	--	**--**	--
trans-1,3-Dichloropropene	<0.136	--	--	--	--	--	--	--	--	--	**--**	--
Ethylbenzene	**0.304**	--	--	**0.24**	**0.24**	**0.16**	**0.65**	**0.33**	**0.20**	**0.30**	<0.14	**0.30**
Toluene	--	--	--	**0.83**	**1.1**	**0.69**	**3.0 E**	**1.5**	**0.78**	**1.00**	**0.44**	**1.7**
Styrene	--	--	--	**0.22**	**0.11**	**0.15**	**1.3 E**	**0.17**	**0.13**	**0.40**	<0.16	<0.16
1,1,2,2-Tetrachloroethane	<0.137	--	--	--	--	--	--	--	--	--	**--**	--
Tetrachloroethylene	<0.136	**0.11**	**0.18**	**0.038**	**0.18**	**0.059**	**1.1**	**0.14**	**0.089**	**0.240**	<0.17	**0.39**
1,1,1-Trichloroethane	<0.109	<0.0087	<0.0099	<0.058	<0.049	<0.048	<0.050	<0.050	<0.049	<0.050	<0.16	<0.16
1,1,2-Trichloroethane	<0.163	--	--	--	--	--	--	--	--	--	**--**	--
Trichloroethylene	<0.107	**0.024**	**0.019**	<0.021	<0.018	<0.018	<0.018	**0.032**	<0.018	<0.018	<0.14	<0.14
m,p-Xylene	--	--	--	**0.60**	**0.28**	**0.47**	**1.4 E**	**0.96**	**0.56**	**0.67**	**0.28**	**0.99**
o-Xylene	--	--	--	**0.25**	**0.11**	**0.19**	**0.60**	**0.42**	**0.24**	**0.29**	<0.15	**0.35**
Vinyl Chloride	<0.0511	--	--	--	--	--	--	--	--	--	**--**	--
Vinyl Acetate	<0.0704	--	--	--	--	--	--	--	--	--	**--**	--

See notes at end of table.

Table B-1
Ambient Air Analytical Results – Residential
Former Ellis Dry Cleaners

Notes:

1. Results in µg/m^3 = Micrograms per cubic meter.
2. Bold values indicate concentration detected above the minimum reporting limit.
3. VOCs = Volatile organic compounds.
4. Sample analyzed by EPA Method TO-15 SIM.
5. M = The relative percent difference between the primary and duplicate sample are above the quality control limit of 30%.
6. J = Data results are estimated values. Results associated with this qualifier are approximate.
7. J+ = Estimated concentration that may be biased high.
8. E = The result is above the upper limit of the calibration range. The reported concentration is estimated.

Table B-2
Ambient Air Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	Pizza A Go Go 1	Pizza A Go Go 2	Evol Twin Office	Evol Twin Office	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop
Date	7/31/2012	7/31/2012	7/30/2012	12/9/2014	7/30/2012	8/24/2013	11/4/2013	2/3/2014	4/3/2014[4]	5/12/2014	7/16/2014	12/9/2014	3/17/2015	6/16/2015	9/14/2015
Benzene	**0.61**	**0.99**	**0.48**	**0.35**	**0.80**	**1.3**	**0.70**	**0.32**	< 2.6	**0.48**	**0.42**	**0.25**	**0.83**	**0.18**	**0.323**
Carbon Tetrachloride	**0.44**	**0.69**	< 0.50	**0.33**	< 1.3	**0.32**	< 1.3	< 0.13	< 5.0	**0.43**	**0.63**	**0.30**	**0.29**	**0.43**	**0.391**
Chloroethane	< 0.11	< 0.11	< 0.42	< 0.11	< 1.1	< 0.11	< 0.53	< 0.11	< 2.1	< 0.11	**0.11**	< 0.11	< 0.11	< 0.11	< 0.106
Chloroform	**0.32**	**5.4**	< 0.39	< 0.097	< 0.97	< 0.097	< 0.97	< 0.097	< 3.9	**0.13**	< 0.097	< 0.097	< 0.097	**0.11**	< 0.0973
Chloromethane	**1.2**	**1.2**	**1.3**	**0.93**	**1.3**	**0.74**	**0.85**	**0.83**	< 1.7	**0.95**	**1.5**	**0.97**	**1.2**	**1.3**	**0.774**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.15	< 0.62	< 0.15	< 1.5	< 0.15	< 1.5	< 0.15	< 6.2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154
1,4-Dichlorobenzene	< 0.12	< 0.12	< 0.48	< 0.12	< 1.2	< 0.12	< 1.2	< 0.12	< 4.8	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120
1,2-Dichloroethane	--	--	--	--	--	--	<0.81	--	<3.2	--	--	--	--	--	--
1,1-Dichloroethane	< 0.08	< 0.08	< 0.32	< 0.080	< 0.80	< 0.080	< 0.80	< 0.080	< 3.2	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802
1,1-Dichloroethene	< 0.079	< 0.079	< 0.32	< 0.079	< 0.79	< 0.079	< 0.79	< 0.079	< 3.2	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793
cis-1,2-Dichloroethene	< 0.079	< 0.079	< 0.32	< 0.079	< 0.79	< 0.079	< 0.79	< 0.079	< 3.2	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793
trans-1,2-Dichloroethene	< 0.079	< 0.079	< 0.32	< 0.079	< 0.79	< 0.079	< 0.79	< 0.079	< 3.2	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793
1,2-Dichloropropane	< 0.14	< 0.14	< 0.55	< 0.14	< 1.4	< 0.14	< 0.92	< 0.14	< 3.7	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.139
cis-1,3-Dichloropropene	< 0.091	< 0.091	< 0.36	< 0.091	< 0.91	< 0.091	< 0.91	< 0.091	< 3.6	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908
trans-1,3-Dichloropropene	< 0.14	< 0.14	< 0.54	< 0.14	< 1.4	< 0.14	< 0.91	< 0.14	< 3.6	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136
Ethylbenzene	**0.56**	**0.95**	**1.4**	**2.1**	**1.3**	**2.5**	< 0.87	**0.19**	< 3.5	**0.15**	**0.42**	**2.1**	**0.61**	**0.24**	**0.248**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.14	< 0.55	< 0.14	< 1.4	< 0.14	< 1.4	< 0.14	< 5.5	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137
Tetrachloroethylene	**0.27**	**2.7**	**26**	**19**	**67**	**100**	**16**	**7.5**	**16**	**8.8**	**0.88**	**9.5**	**2.2**	**0.23**	**1.51**
1,1,1-Trichloroethane	< 0.11	< 0.11	< 0.44	< 0.11	< 1.1	< 0.11	< 1.1	< 0.11	< 4.4	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109
1,1,2-Trichloroethane	< 0.16	< 0.16	< 0.65	< 0.16	< 1.6	< 0.16	< 1.1	< 0.16	< 4.4	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163
Trichloroethylene	< 0.11	< 0.11	< 0.43	< 0.11	< 1.1	< 0.11	< 1.1	< 0.11	**5.9**	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.51	< 0.051	< 0.20	< 0.051	< 0.51	< 0.051	< 0.51	< 0.051	< 2.0	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511
Vinyl Acetate	< 0.07	< 0.070	**2.6**	< 0.070	**2.3**	**0.60**	< 0.70	**0.16**	< 2.8	**3.3**	**1.2**	< 0.070	< 0.070	< 0.070	< 0.0704

See notes at end of table.

Table B-2
Ambient Air Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop
Date	12/14/2015	3/7/2016	6/9/2016	9/16/2016	12/13/2016	3/30/2017	6/28/2017	10/2/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018
Benzene	**0.781**	**0.828**	**0.298**	**0.949**	**0.981**	**0.764**	**0.319**	**2.28**	**0.778**	**2.21**	**0.629**	**0.280**	**0.760**
Carbon Tetrachloride	**0.442**	**0.419**	**0.212**	**0.433**	**0.606**	**0.605**	**0.492**	**0.581**	**0.516**	**0.532**	**0.552**	**0.431**	**0.630**
Chloroethane	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	<0.106	<0.106	<0.106	<0.106	**0.539**	<0.106	<0.106	<0.106
Chloroform	**0.165**	< 0.0973	< 0.0973	< 0.0973	< 0.0973	<0.0973	<0.0973	<0.0973	**1.07**	**1.14**	**1.61**	**0.454**	**1.47**
Chloromethane	**0.926**	**1.13**	**1.48**	**1.22**	**1.22**	**1.34**	**1.08**	**1.25**	**1.67**	**3.49**	**1.18**	**0.794**	**1.13**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154
1,4-Dichlorobenzene	< 0.120	< 0.120	< 0.120	< 0.120	< 0.481	<0.12	<0.120	**2.37**	<0.12	**0.234**	<0.120	<0.120	<0.120
1,2-Dichloroethane	--	--	--	--	--	--	--	<0.0810	0.104	**0.216**	**0.111**	<0.0810	**0.0994**
1,1-Dichloroethane	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802
1,1-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
cis-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	**0.204**	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
trans-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793
1,2-Dichloropropane	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139
cis-1,3-Dichloropropene	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	**0.389**
trans-1,3-Dichloropropene	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	**0.212**
Ethylbenzene	**4.28**	**1.66**	**0.379**	**1.43**	**0.753**	**0.614**	**0.409**	**1.95**	**0.803**	**1.41**	**1.03**	**0.254**	**0.366**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.137	< 0.137	< 0.137	< 0.137	< 0.550	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137
Tetrachloroethylene	**2.13**	**3.17**	**0.285 M**	**1.06**	**4.66**	**2.11**	**0.342**	**1.57**	**2.26**	**2.24**	**0.659**	**0.155**	**2.93**
1,1,1-Trichloroethane	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109
1,1,2-Trichloroethane	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163
Trichloroethylene	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	**0.113**	<0.107	**0.107**	<0.107	**0.184**	<0.107	<0.107	<0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511
Vinyl Acetate	0.759	< 0.0704	< 0.0704	**0.173**	**0.181**	<0.0704	<0.0704	**0.084**	<0.0704	**0.208**	**0.229**	0.103	**0.185**

See notes at end of table.

Table B-2
Ambient Air Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop	Evol Twin Shop
Date	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/25/2020	11/3/2020	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	8/30/2023	12/27/2023	7/31/2024	1/24/2025
Benzene	**0.70**	**0.43**	**0.248**	**1.09**	**1.01**	--	**0.56 J+**	**0.84 J+**	**0.40**	**1.2 E**	**0.91**	**0.82**	**0.42**	<0.50	**0.97**
Carbon Tetrachloride	**0.59**	**0.55**	**0.491**	**0.481**	**0.568**	--	--	--	--	--	--	--	--	**0.23**	**0.31**
Chloroethane	<0.42	<0.46	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--	--	--
Chloroform	**0.90 J**	**0.70**	<0.0973	<0.0973	<0.0973	--	--	--	--	--	--	--	--	**0.24**	**0.17**
Chloromethane	**1.0**	**1.2**	**1.19**	**1.03**	**1.00**	--	--	--	--	--	--	--	--	--	--
Cyclohexane	--	--	--	--	--	--	**0.18**	**0.26**	**0.099**	**0.13**	**0.40**	**0.22**	**0.11**	**0.57**	**0.66**
1,2-Dibromoethane	<0.11	<0.12	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<1.6	<1.8	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--	<0.19	<0.19
1,2-Dichloroethane	**0.12 J**	**0.13**	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--	<0.13	<0.13
1,1-Dichloroethane	<0.039	<0.042	<0.0802	<0.0802	<0.0802	<0.0087	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	**0.084 J**	<0.061	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	**0.044 J**	<0.047	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	<0.060	<0.065	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	**0.048 J**	**0.054 J**	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	**0.065 J**	<0.063	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	<0.066	<0.072	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	**1.1 J**	<0.53	**0.246**	**0.681**	**4.42**	--	**0.46**	**0.50**	**0.98**	**0.53**	**0.59**	**1.30**	**0.28**	**0.38**	**0.41**
Toluene	--	--	--	--	--	--	**2.1 E**	**2.2 E**	**2.8 E**	**2.1 E**	**2.7 J**	**6.3 J-**	**1.3**	**2.0**	**2.1**
Styrene	--	--	--	--	--	--	**0.36**	**0.35**	**1.7**	**0.51**	**0.83**	**2.70**	**0.80**	<0.16	<0.16
1,1,2,2-Tetrachloroethane	<0.090	<0.098	<0.137	<0.137	<0.137	--	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	**1.1**	**1.5**	<0.136	**1.17**	**0.675**	**7.7**	**0.26**	**4.3 E**	**1.8**	**0.13**	**5.6**	**2.5**	**1.7**	**3.0**	**1.8**
1,1,1-Trichloroethane	<0.058	<0.063	<0.109	<0.109	<0.109	<0.0087	<0.058	<0.049	<0.048	<0.050	<0.050	<0.051	<0.029	<0.16	<0.16
1,1,2-Trichloroethane	<0.060	<0.065	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--	--	--
Trichloroethylene	<0.079	<0.086	<0.107	<0.107	<0.107	**0.028**	<0.021	<0.018	<0.018	<0.018	**0.029**	**0.058**	**0.012**	<0.14	<0.14
m,p-Xylene	--	--	--	--	--	--	**1.1**	**1.5**	**2.8 E**	**1.3 E**	**1.7**	**2.6**	**0.88**	**0.78**	**1.3**
o-Xylene	--	--	--	--	--	--	**0.54**	**0.61**	**1.3**	**0.53**	**0.72**	**0.77**	**0.29**	**0.30**	**0.47**
Vinyl Chloride	<0.037	<0.47	<0.0511	<0.0511	<0.0511	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	<0.43	<0.040	<0.0704	<0.0704	**0.0901**	--	--	--	--	--	--	--	--	--	--

See notes at end of table.

Table B-2
Ambient Air Analytical Results – Commercial
Former Ellis Dry Cleaners

Notes:

1. Results in µg/m^3 = Micrograms per cubic meter.
2. Bold values indicate concentration detected above the minimum reporting limit.
3. VOCs = Volatile organic compounds.
4. M = The relative percent difference between the primary and duplicate sample are above the quality control limit of 30%.
5. J = Estimated concentration above the method detection limit and below the laboratory reporting limit.
6. E = Result exceeds instrument calibration limit.
7. J+ = Estimated concentration that may be biased high.
8. J- = Data results are estimated values and may be biased low.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-F	VP-G	VP-K	VP-K	VP-L	VP-L	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10
Depth (ft bgs)	5	5	5	9	5	8.5	10-20	10-20	10-20	10-20	10-20	10-20
Date	8/13/2013	8/13/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	4/3/2014	5/12/2014	7/16/2014	9/15/2014	11/11/2014	3/21/2015
Acetone	**260**	**71**	**10**	**9.7**	< 3.0	**29**	--	**57**	< 12	**5.7**	**10**	**6.9**
Allyl Chloride	< 0.63	< 0.63	< 0.63	< 1.3	< 0.63	< 2.5	--	< 2.5	< 2.5	< 0.63	< 0.63	< 0.63
Benzene	< 0.64	< 0.64	**0.93**	< 1.3	< 0.64	< 2.6	< 10	< 2.6	< 2.6	**1.2**	< 0.64	**0.80**
Benzyl Chloride	< 1.0	< 1.0	< 1.0	< 2.1	< 1.0	< 4.2	--	< 4.2	< 4.2	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 1.3	< 1.3	< 1.3	< 2.7	< 1.3	< 5.4	--	< 5.4	< 5.4	< 1.3	< 1.3	< 1.3
Bromoform	< 6.2	< 6.2	< 6.2	< 12	< 6.2	< 25	--	< 25	< 25	< 6.2	< 6.2	< 6.2
Bromomethane	< 0.78	< 0.78	< 0.78	< 1.6	< 0.78	< 3.1	--	< 3.1	< 3.1	< 0.78	< 0.78	< 0.78
1,3-Butadiene	< 4.4	< 4.4	< 4.4	< 8.9	< 4.4	< 18	--	< 18	< 18	< 4.4	< 4.4	< 4.4
Carbon Disulfide	< 0.62	< 0.62	< 0.62	< 1.2	< 0.62	< 2.5	--	< 2.5	< 2.5	< 0.62	< 0.62	< 0.62
Carbon Tetrachloride	< 1.3	< 1.3	< 1.3	< 2.5	< 1.3	< 5.0	< 20	< 5.0	< 5.0	< 1.3	< 1.3	< 1.3
Chlorobenzene	< 0.92	< 0.92	< 0.92	< 1.8	< 0.92	< 3.7	--	< 3.7	< 3.7	< 0.92	< 0.92	< 0.92
Chloroethane	< 0.53	< 0.53	< 0.53	< 1.1	< 0.53	< 2.1	< 17	< 2.1	< 2.1	< 0.53	< 0.53	< 0.53
Chloroform	**1.2**	< 0.97	< 0.97	< 1.9	**1.5**	< 3.9	< 16	< 3.9	< 3.9	< 0.97	**1.6**	**1.3**
Chloromethane	**1.7**	< 0.41	< 0.41	< 0.83	< 0.41	< 1.7	< 9.9	< 1.7	< 1.7	< 0.41	< 0.41	< 0.41
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 2.1	< 1.0	< 4.1	--	< 4.1	< 4.1	< 1.0	< 1.0	< 1.0
Cyclohexane	< 0.69	< 0.69	< 0.69	< 1.4	< 0.69	< 2.8	--	< 2.8	< 2.8	< 0.69	< 0.69	**1.5**
Dibromochloromethane	< 1.7	< 1.7	< 1.7	< 3.4	< 1.7	< 6.8	--	< 6.8	< 6.8	< 1.7	< 1.7	< 1.7
1,2-Dibromoethane	< 1.5	< 1.5	< 1.5	< 3.1	< 1.5	< 6.2	< 25	< 6.2	< 6.2	< 1.5	< 1.5	< 1.5
1,2-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 2.4	< 1.2	< 4.8	--	< 4.8	< 4.8	< 1.2	< 1.2	< 1.2
1,3-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 2.4	< 1.2	< 4.8	--	< 4.8	< 4.8	< 1.2	**41**	**4.4 M**
1,4-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 2.4	< 1.2	< 4.8	< 19	< 4.8	< 4.8	< 1.2	< 1.2	< 1.2
1,2-Dichloroethane	< 0.81	< 0.81	< 0.81	< 1.6	< 0.81	< 3.2	--	< 3.2	< 3.2	< 0.81	< 0.81	< 0.81
1,1-Dichloroethane	< 0.80	< 0.80	< 0.80	< 1.6	< 0.80	< 3.2	< 13	< 3.2	< 3.2	< 0.80	< 0.80	< 0.80
1,1-Dichloroethene	< 0.79	< 0.79	< 0.79	< 1.6	< 0.79	< 3.2	< 13	< 3.2	< 3.2	< 0.79	< 0.79	< 0.79
cis-1,2-Dichloroethene	< 0.79	< 0.79	< 0.79	< 1.6	< 0.79	< 3.2	< 13	< 3.2	< 3.2	< 0.79	< 0.79	**1.6**
trans-1,2-Dichloroethene	< 0.79	< 0.79	< 0.79	< 1.6	< 0.79	< 3.2	< 13	< 3.2	< 3.2	< 0.79	< 0.79	**18**
1,2-Dichloropropane	< 0.92	< 0.92	< 0.92	< 1.8	< 0.92	< 3.7	< 22	< 3.7	< 3.7	< 0.92	< 0.92	< 0.92
cis-1,3-Dichloropropene	< 0.91	< 0.91	< 0.91	< 1.8	< 0.91	< 3.6	< 15	< 3.6	< 3.6	< 0.91	< 0.91	< 0.91
trans-1,3-Dichloropropene	< 0.91	< 0.91	< 0.91	< 1.8	< 0.91	< 3.6	< 22	< 3.6	< 3.6	< 0.91	< 0.91	< 0.91
1,4-Dioxane	< 0.72	< 0.72	< 0.72	< 1.4	< 0.72	< 2.9	--	< 2.9	< 2.9	< 0.72	< 0.72	< 0.72
Ethanol	< 1.2	**6.4**	< 1.2	**2.6**	**1.5**	**10**	--	**9.8**	< 4.8	**9.4**	**12**	**79 M**
Ethylbenzene	< 0.87	< 0.87	< 0.87	< 1.7	< 0.87	< 3.5	**21**	< 3.5	< 3.5	< 0.87	**0.91**	**1.3**
4-Ethyltoluene	< 0.98	< 0.98	< 0.98	< 2.0	< 0.98	< 3.9	--	< 3.9	< 3.9	< 0.98	< 0.98	**1.1**
Trichlorofluoromethane	**1.3**	**1.2**	**2.0**	**9.6**	**1.3**	**6.2**	--	< 4.5	< 4.5	**1.5**	**2.0**	**2.2**
Dichlorodifluoromethane	< 0.99	**2.2**	**1.7**	**2.4**	**1.7**	**4.6**	--	< 4.0	< 4.0	**1.5**	**3.6**	**2.3**
1,1,2-Trichlorotrifluoroethane	< 1.5	< 1.5	< 1.5	< 3.1	< 1.5	< 6.1	--	< 6.1	< 6.1	< 1.5	< 1.5	< 1.5
1,2-Dichlorotetrafluoroethane	< 1.4	< 1.4	< 1.4	< 2.8	< 1.4	< 5.6	--	< 5.6	< 5.6	< 1.4	< 1.4	< 1.4
Heptane	< 0.82	< 0.82	< 0.82	< 1.6	< 0.82	< 3.3	--	< 3.3	< 3.3	< 0.82	< 0.82	**1.4**
Hexachloro-1,3-butadiene	< 6.7	< 6.7	< 6.7	< 13	< 6.7	< 27	--	< 27	< 27	< 6.7	< 6.7	< 6.7
n-Hexane	< 0.71	0.88	< 0.71	< 1.4	**1.1**	< 2.8	--	< 2.8	< 2.8	< 0.71	< 0.71	**2.2**
Isopropylbenzene	< 0.98	< 0.98	< 0.98	< 2.0	< 0.98	< 3.9	--	< 2.9	< 3.9	< 0.98	< 0.98	< 0.98
Methylene Chloride	< 0.69	**2.9**	< 0.69	< 1.4	< 0.69	< 2.8	--	**6.9**	< 2.8	< 0.69	< 0.69	< 0.69
Methyl Butyl Ketone	**20**	< 5.1	**13**	< 10	< 5.1	< 20	--	< 20	< 20	< 5.1	< 5.1	< 5.1
2-Butanone (MEK)	**10**	< 3.7	**8.3**	**7.7**	< 3.7	< 15	--	**50**	< 15	< 3.7	< 3.7	**4.7**
4-Methyl-2-pentanone (MIBK)	**7.4**	< 5.1	**7.4**	< 10	< 5.1	< 20	--	< 20	< 20	< 5.1	< 5.1	< 5.1
Methyl methacrylate	< 0.82	**0.98**	< 0.82	< 1.6	< 0.82	< 3.3	--	< 3.3	< 3.3	< 0.82	< 0.82	< 0.82
MTBE	< 0.72	< 0.72	< 0.72	< 1.4	< 0.72	< 2.9	--	< 2.9	< 2.9	< 0.72	< 0.72	< 0.72
Naphthalene	< 3.3	< 3.3	< 3.3	< 6.6	< 3.3	< 13	--	< 13	< 13	< 3.3	< 3.3	< 3.3
2-Propanol	< 3.1	**3.2**	< 3.1	< 6.1	< 3.1	< 12	--	< 12	**19**	< 3.1	**9,300**	**69 M**
Propene	< 0.69	< 0.69	**1.6**	**2.2**	< 0.69	**7.1**	--	< 2.8	< 2.8	< 0.69	**1.4**	< 0.69
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	**1.2**	**0.85**	< 0.85	< 1.7	< 0.85	< 3.4	--	< 3.4	< 3.4	< 0.85	< 0.85	< 0.85
1,1,2,2-Tetrachloroethane	< 1.4	< 1.4	< 1.4	< 2.7	< 1.4	< 3.0	< 3.2	< 5.5	< 5.5	< 1.4	< 1.4	< 1.4
Tetrachloroethylene	**150**	**75**	**3,000**	**22,000**	**5,400**	**40,000**	**2,600**	**8,800**	**6,800**	**4,200**	**2,300**	**2,300**
Tetrahydrofuran	**1.1**	< 0.59	< 0.59	< 1.2	< 0.59	< 2.4	--	**940**	**7.1**	**77**	< 0.59	**1.7**
Toluene	**3.1**	**3.0**	**3.1**	**1.7**	< 0.75	< 3.0	--	< 3.0	< 3.0	**1.5**	**2.9**	**6.4**
1,2,4-Trichlorobenzene	< 4.7	< 4.7	< 4.7	< 9.3	< 4.7	< 19	--	< 19	< 19	< 4.7	< 4.7	< 4.7
1,1,1-Trichloroethane	< 1.1	< 1.1	< 1.1	**2.3**	< 1.1	< 4.4	< 17	< 4.4	< 4.4	< 1.1	< 1.1	< 1.1
1,1,2-Trichloroethane	< 1.1	< 1.1	< 1.1	< 2.2	< 1.1	< 4.4	< 26	< 4.4	< 4.4	< 1.1	< 1.1	< 1.1
Trichloroethylene	< 1.1	< 1.1	< 1.1	< 2.1	< 1.1	**8.6**	< 17	< 4.3	< 4.3	**2.1**	**1.7**	**2.7**
1,2,4-Trimethylbenzene	**2.1**	**1.3**	< 0.98	< 2.0	**1.1**	< 3.9	--	< 3.9	< 3.9	**1.0**	**1.4**	**4.1**
1,3,5-Trimethylbenzene	< 0.98	< 0.98	< 0.98	< 2.0	< 0.98	< 3.9	--	< 3.9	< 3.9	< 0.98	< 0.98	**1.2**
2,2,4-Trimethylpentane	< 0.93	< 0.93	< 0.93	< 1.9	< 0.93	< 3.7	--	< 3.7	< 3.7	< 0.93	< 0.93	< 0.93
Vinyl Chloride	< 0.51	< 0.51	< 0.51	< 1.0	< 0.51	< 2.0	< 8.2	< 2.0	< 2.0	< 0.51	< 0.51	< 0.51
Vinyl Bromide	< 0.87	< 0.87	< 0.87	< 1.7	< 0.87	< 3.5	--	< 3.5	< 3.5	< 0.87	< 0.87	< 0.87
Vinyl Acetate	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 2.8	< 11	< 2.8	< 2.8	< 0.70	< 0.70	< 0.70
m&p-Xylene	**2.1**	**2.2**	< 1.7	< 3.5	< 1.7	< 6.9	--	< 6.9	< 6.9	< 1.7	**3.9**	**8.7**
o-Xylene	**0.95**	< 0.87	< 0.87	< 1.7	< 0.87	< 3.5	--	< 3.5	< 3.5	< 0.87	**1.4**	**3.4**
TPHg	**2,000**	**870**	**1,400**	**4,000**	**1,400**	**7,800**	--	**4,500**	**5,400**	**2,200**	**2,000**	**1,100**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10
Depth (ft bgs)	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
Date	6/16/2015	9/17/2015	12/14/2015	3/7/2016	6/9/2016	9/16/2016	12/12/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018
Acetone	**6.7**	**5.81**	< 2.97	**7.29**	**5.92**	**18.5**	< 2.97	**7.22**	**1,040**	<2.97	**3.43**	**37.8**
Allyl Chloride	< 0.63	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	< 0.64	< 0.639	< 0.639	< 0.639	< 0.639	**0.667**	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	< 1.0	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	< 1.3	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	< 6.2	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	< 0.78	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	< 4.4	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	< 0.62	< 0.622	< 0.622	< 0.622	< 0.622	< 0.622	< 0.622	<0.622	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	< 1.3	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	< 0.92	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	< 0.53	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	**4.20**	<0.528	<0.528	<0.528	<0.528
Chloroform	< 0.97	< 0.973	**1.16**	**< 0.973**	< 0.973	< 0.973	< 0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	**0.70**	< 0.413	< 0.413	< 0.413	**1.09**	< 0.413	**0.905**	<0.413	**2.85**	**0.483**	<0.413	**0.482**
2-Chlorotoluene	< 1.0	< 1.03	< 1.03	< 1.03	**1.09**	< 1.03	< 1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	< 0.69	< 0.689	< 0.689	< 0.689	< 0.689	**1.29**	< 0.689	<0.689	**1.04**	<0.689	**2.68**	<0.689
Dibromochloromethane	< 1.7	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	<1.7	<1.70	<1.70	<1.7	<1.7
1,2-Dibromoethane	< 1.5	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.2	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2
1,3-Dichlorobenzene	< 1.2	< 1.20	**2.92**	**6.87**	< 1.20	**5.49**	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2
1,4-Dichlorobenzene	< 1.2	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2
1,2-Dichloroethane	< 0.81	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	<0.81	<0.810	<0.810	<0.81	<0.802
1,1-Dichloroethane	< 0.80	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	**73.4**	<0.802	<0.802	<0.802	<0.81
1,1-Dichloroethene	< 0.79	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	**18.9**	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	**1.0**	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	**82.8**	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	< 0.79	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	< 0.92	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	< 0.91	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	< 0.91	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	< 0.72	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**4.9**	**29.4**	**4.98 J3**	**34.7**	**8.26**	**13.2**	**4.04**	**9.91**	**18.2**	**2.73**	**3.46**	**3.19**
Ethylbenzene	**2.9**	< 0.867	< 0.867	**2.07**	< 0.867	**2.70**	< 0.867	<0.867	**1.62**	<0.867	**1.00**	**1.07**
4-Ethyltoluene	**2.4**	< 0.982	< 0.982	**4.48**	< 0.982	**1.19**	< 0.982	**1.09**	**2.57**	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.7**	**1.3**	**1.8**	**1.98**	**1.31**	**1.4**	**1.36**	**1.84**	**1.73**	**1.71**	**2.32**	<1.12
Dichlorodifluoromethane	**2.6**	**2.5**	**3.15**	**2.42**	**2.07**	**2.07**	**2.42**	**3.05**	**2.13**	**1.42**	**1.43**	**1.49**
1,1,2-Trichlorotrifluoroethane	< 1.5	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	< 1.4	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	<1.4	<1.40	<1.40	<1.4	<1.4
Heptane	< 0.82	< 0.818	< 0.818	< 0.818	< 0.818	**1.47**	< 0.818	**3.29**	**1.66**	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	< 6.7	< 6.73	< 6.73 J3	< 6.73	< 6.73	< 6.73	< 6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	< 0.71	< 0.705	< 0.705	**0.863**	**1.11**	**2.20**	< 0.705	**2.53**	**1.68**	<0.705	<0.705	**1.09**
Isopropylbenzene	< 0.98	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	< 0.69	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	<0.694	**0.749 B**	<0.694	<0.694	<0.694
Methyl Butyl Ketone	< 5.1	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	< 3.7	< 3.69	< 3.69	**3.79**	< 3.69	**7.00**	< 3.69	<3.69	**1,020**	<3.69	<3.69	**4.52**
4-Methyl-2-pentanone (MIBK)	< 5.1	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	< 0.82	< 0.819	< 0.819	**1.06**	< 0.819	< 0.819	< 0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	< 0.72	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	**5.2**	< 3.30	< 3.30 J3	< 3.30	< 3.30	< 3.30	**9.92**	<3.3	<3.30	<3.30	<3.3	<3.3
2-Propanol	< 3.1	< 3.07	**14.5**	**50.0**	**9.0**	**1530**	< 3.07	**18.3**	**10.3**	<3.07	<3.07	**26.6**
Propene	< 0.69	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	**0.804**	<0.689	<0.689	<0.689	<0.689	<0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.85	< 0.851	< 0.851	**3.2**	< 0.851	**0.898**	< 0.851	<0.851	<0.851	<0.851	<0.851	<0.851
1,1,2,2-Tetrachloroethane	< 1.4	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**2,800**	**322**	**929**	**3,450**	**98.7 M**	**326**	**32.6**	**633**	**315**	**105**	**62.3**	**2.58**
Tetrahydrofuran	**0.97**	< 0.590	0.769	3.44	< 0.590	**88.8**	**1.12**	**8.99**	**2,810**	**40.0**	**8.84**	**2.96**
Toluene	**4.5**	**2.02**	**1.51**	**6.76**	**1.17**	**11.5**	< 0.753	**4.71**	**8.46**	**1.37**	**3.36**	**1.42**
1,2,4-Trichlorobenzene	< 4.7	< 4.66	< 4.66 J3	< 4.66	< 4.66	< 4.66	< 4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	< 1.1	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	**179**	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	< 1.1	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	**1.4**	< 1.07	**6.82**	**2.01**	< 1.07	< 1.07	< 1.07	**47.4**	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	**8.8**	**3.6**	**1.26**	**5.40**	< 0.982	**3.76**	**1.13**	**1.30**	**3.35**	<0.982	**2.23**	<0.982
1,3,5-Trimethylbenzene	**2.5**	**1.06**	< 0.982	**1.46**	< 0.982	**1.01**	< 0.982	<0.982	**2.26**	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	< 0.93	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	<0.934	**1.77**	<0.934	<0.934	<0.934
Vinyl Chloride	< 0.51	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	**15.4**	**0.540**	<0.511	<0.511	<0.511
Vinyl Bromide	< 0.87	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	< 0.70	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	**19**	**4.33**	**2.59**	**10.5**	< 1.73	**12.1**	< 1.73	**2.45**	**6.56**	<1.73	**4.42**	**4.23**
o-Xylene	**6.1**	**1.94**	**0.951**	**3.96**	< 0.867	**3.99**	< 0.867	**0.934**	**2.40**	<0.867	**1.50**	**1.60**
TPHg	**2,200**	**359**	**687**	**1,280**	**207**	**1,100**	< 207	**1,500**	**3,610**	**222**	<207	**883**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10	SV-10
Depth (ft bgs)	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
Date	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/4/2020	1/25/2021	8/31/2021	1/26/2022
Acetone	**7.67**	**100**	<2.97	**5.12**	**6.90**	<29.7	**4.75**	**7.25**	<2.97	**4.18**	<2.97	**3.68**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<2.3	<6.26	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.47	<6.39	<0.639	**1.33**	<0.639	<0.639	<0.639	**0.799**
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<3.8	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<2	<13.4	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<7.6	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<1.1	<7.76	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<0.65	<44.3	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.91	<6.22	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.8	<12.6	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<1.3	<9.24	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.77	<5.28	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.71	<9.73	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	**0.984**	**1.5**	**0.739**	<0.413	**0.73**	<4.13	<0.413	**1.02**	**0.673**	<0.413	**1.05**	**1.12**
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	--	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<2.5	<6.89	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<2.5	<17.0	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.1	<15.4	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	**105**	<1.20	<1.20	**2.30**	<1.20	**3.34**	<1.20	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<4.4	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.59	<8.10	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<1.2	<8.02	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<1.2	<7.93	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<1.2	<7.93	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<1.2	<7.93	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<1.4	<9.24	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<1.3	<9.08	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<1.3	<9.08	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<5.3	<7.21	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**2.38**	**7.04**	**1.67**	**30.8**	**3.3**	<11.9	**3.83**	**11.4**	**8.07**	**9.43**	<2.36	**4.47**
Ethylbenzene	**1.91**	<0.867	<0.867	**1.88**	**1.9**	<0.867	<0.867	**3.76**	<0.867	**0.993**	<0.867	**0.98**
4-Ethyltoluene	3.08	<0.982	<0.982	**5.10**	<3.6	<0.982	<0.982	**6.67**	**1.72**	<0.982	<0.982	**1.04**
Trichlorofluoromethane	<1.12	**1.33**	**1.71**	**4.06**	**1.7**	<11.2	**1.21**	**1.51**	**2.06**	**1.99**	**1.55**	**1.39**
Dichlorodifluoromethane	**1.38**	**1.76**	**3.30**	**1.82**	**2.1**	<9.89	**2.01**	**2.82**	**2.92**	**2.82**	**2.73**	**2.70**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<2.2	<15.3	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<2	<14.0	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<1.2	<8.18	<0.818	**3.03**	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<7.8	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	<0.705	<0.705	<0.705	<0.705	<1	<7.05	**0.94**	**1.85**	<2.22	<2.22	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<3.6	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	<0.694	<0.694	<0.694	**3.55**	<5.1	<6.94	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<6	<51.1	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	**4.90**	**111**	<3.69	**5.55**	**6.4**	<36.9	<3.69	**14.6**	**3.95**	**5.60**	<3.69	**6.02**
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<6	<51.2	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<1.2	<8.19	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<5.3	<7.21	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<3.8	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	<3.07	**3.16**	<3.07	<3.07	**162**	<30.7	<3.07	<3.07	<3.07	**9.29**	<3.07	<3.07
Propene	<0.689	<0.689	<0.689	<0.689	**0.58**	<6.89	<0.689	<0.689	<0.689	<0.689	<2.15	<2.15
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	<0.982
Styrene	<0.851	<0.851	<0.851	**0.927**	**1.7**	**1.02**	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	<1.36	**31.8**	**26.8**	**607**	**104**	**671**	**446**	**4.43**	**102**	**50.7**	**18.7**	<1.36
Tetrahydrofuran	**18.5**	**155**	**27.6**	**13.6**	**41.5**	**21.1**	<0.590	**32.1**	<0.590	<0.590	**10.7**	**8.08**
Toluene	**4.41**	<0.753	<0.753	**5.86**	**4.2**	<7.53	**1.28**	**24.2**	**3.80**	**3.77**	<1.88	**6.29**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<10.9	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.6	<10.9	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.8	<10.9	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<0.79	<10.7	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	4.06	<0.982	<0.982	**5.94**	**9.0**	<0.982	<0.982	**7.61**	**2.25**	**1.30**	**1.62**	**1.23**
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	**1.74**	**2.6**	<0.982	<0.982	**2.34**	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	1.01	<0.934	<0.934	<0.934	<3.4	<9.34	<0.934	**2.37**	<0.934	**1.03**	<0.934	**1.45**
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.37	<5.11	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<1.3	<8.75	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<1	<7.04	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	**8.19**	<1.73	<1.73	**9.47**	**8.3**	<1.73	<1.73	**15.8**	**3.39**	**3.86**	**2.30**	**3.89**
o-Xylene	**3.33**	<0.867	<0.867	**3.67**	**3.6**	<0.867	<0.867	**6.16**	**1.51**	**1.51**	**1.17**	**1.45**
TPHg	<207	**498**	<207	**840**	**894**	**690 J+**	**379**	<826	<826	<826	<826	<826

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-10	SV-10	SV-10	SV-10	SV-10	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12
Depth (ft bgs)	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
Date	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023	4/3/2014	5/12/2014	7/16/2014	9/15/2014	11/11/2014	3/21/2015	6/16/2015
Acetone	**7.34**	**27.3**	<2.97	**5.3**	**9.24**	--	**11,000**	**38**	**5.7**	**8.8**	**10**	**40**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.357	--	< 50	< 2.5	< 0.63	< 0.63	< 0.63	< 0.63
Benzene	<0.639	<0.639	<0.639	<0.639	<0.228	< 51	< 51	< 2.6	**19**	< 0.64	**0.77**	**0.89**
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<0.311	--	< 83	< 4.2	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<0.471	--	< 110	< 5.4	< 1.3	< 1.3	< 1.3	< 1.3
Bromoform	<6.21	<6.21	<6.21	<6.21	<0.757	--	< 500	< 25	< 6.2	< 6.2	< 6.2	< 6.2
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.381	--	< 62	< 3.1	< 0.78	< 0.78	< 0.78	< 0.78
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<0.230	--	< 350	< 18	< 4.4	< 4.4	< 4.4	< 4.4
Carbon Disulfide	<0.622	**0.644**	<0.622	<0.622	<0.317	--	**180**	**6.2**	< 0.62	< 0.62	< 0.62	**3.1**
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<0.461	< 100	< 100	< 5.0	< 1.3	< 1.3	< 1.3	< 1.3
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.385	--	< 74	< 3.7	< 0.92	< 0.92	< 0.92	< 0.92
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.263	< 84	< 42	< 2.1	< 0.53	< 0.53	< 0.53	**0.55**
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.349	< 78	< 78	< 3.9	< 0.97	< 0.97	< 0.97	< 0.97
Chloromethane	**0.808**	**0.729**	**0.541**	**1.250**	**1.12**	< 50	< 33	< 1.7	< 0.41	< 0.41	< 0.41	**4.8**
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<0.427	--	< 82	< 4.1	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.259	--	**76**	**3.0**	**6.2**	< 0.69	**1.2**	< 0.69
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<0.618	--	< 140	< 6.8	< 1.7	< 1.7	< 1.7	< 1.7
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<0.554	< 120	< 120	< 6.2	< 1.5	< 1.5	< 1.5	< 1.5
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.770	--	< 96	< 4.8	< 1.2	< 1.2	< 1.2	< 1.2
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.09	--	< 96	< 4.8	< 1.2	**21**	< 1.2	< 1.2
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.335	< 96	< 96	< 4.8	< 1.2	< 1.2	< 1.2	< 1.2
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.283	--	< 65	< 3.2	< 0.81	< 0.81	< 0.81	< 0.81
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.290	< 64	< 64	< 3.2	< 0.80	< 0.80	< 0.80	< 0.80
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.302	< 63	< 63	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.311	< 63	< 63	< 3.2	< 0.79	< 0.79	**2.9**	< 0.79
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.267	< 63	< 63	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.351	< 110	< 74	< 3.7	< 0.92	< 0.92	< 0.92	< 0.92
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.313	< 73	< 73	< 3.6	< 0.91	< 0.91	< 0.91	< 0.91
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.331	< 110	< 73	< 3.6	< 0.91	< 0.91	< 0.91	< 0.91
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.300	--	< 58	< 2.9	< 0.72	< 0.72	< 0.72	**10**
Ethanol	**20.6**	<2.36	**2.45**	**8.43**	**14.0**	--	**2,300**	**40**	**230**	**3.8**	**26 M**	**7.5**
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.362	< 100	< 69	< 3.5	**6.1**	< 0.87	**1.3**	< 0.87
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.384	--	< 79	< 3.9	**1.5**	< 0.98	**1.3**	< 0.98
Trichlorofluoromethane	**1.80**	**1.50**	**1.66**	**1.37**	**1.31**	--	< 90	< 4.5	**1.5**	**1.9**	**2.1**	**1.5**
Dichlorodifluoromethane	**2.62**	**2.50**	**2.93**	**2.40**	**2.43**	--	< 79	< 4.0	**1.6**	**2.7**	**3.5**	**1.8**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<0.608	--	< 120	< 6.1	< 1.5	< 1.5	< 1.5	< 1.5
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<0.622	--	< 110	< 5.6	< 1.4	< 1.4	< 1.4	< 1.4
Heptane	<0.818	<0.818	<0.818	<0.818	**0.847**	--	< 65	< 3.3	**14**	< 0.82	**1.1**	< 0.82
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<1.12	--	< 540	< 27	< 6.7	< 6.7	< 6.7	< 6.7
n-Hexane	<2.22	<2.22	<2.22	<2.22	<0.726	--	**560**	**8.1**	**42**	< 0.71	**1.6**	< 0.71
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.382	--	< 79	< 3.9	< 0.98	< 0.98	< 0.98	< 0.98
Methylene Chloride	**1.32**	<0.694	<0.694	**0.757**	**0.823**	--	**76**	**7.3**	< 0.69	< 0.69	< 0.69	< 0.69
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<0.544	--	< 410	< 20	< 5.1	< 5.1	< 5.1	< 5.1
2-Butanone (MEK)	<3.69	**28.2**	<3.69	<3.69	<0.240	--	**590**	< 15	< 3.7	< 3.7	**6.8**	**8.3**
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<0.313	--	< 410	< 20	< 5.1	< 5.1	< 5.1	< 5.1
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.359	--	**260**	< 3.3	< 0.82	< 0.82	< 0.82	< 0.82
MTBE	<0.721	<0.721	<0.721	<0.721	<0.233	--	< 58	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72
Naphthalene	<3.30	<3.30	<3.30	<3.30	<1.83	--	< 260	< 13	< 3.3	< 3.3	< 3.3	< 3.3
2-Propanol	<3.07	<3.07	<3.07	<3.07	<0.649	--	250	**27**	< 3.1	**3,400**	**6.1 M**	< 3.1
Propene	<2.15	<2.15	<2.15	<2.15	<0.160	--	< 55	**6.0 J**	< 0.69	< 0.69	< 0.69	**1.1**
n-Propylbenzene	<0.982	<0.982	<0.982	<0.982	<0.379	--	--	--	--	--	--	--
Styrene	<0.851	**1.05**	<0.851	<0.851	<0.335	--	< 68	**5.1**	< 0.85	< 0.85	< 0.85	< 0.85
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<0.511	--	< 110	< 5.5	< 1.4	< 1.4	< 1.4	< 1.4
Tetrachloroethylene	**4.05**	**38.4**	**176**	<1.36	<0.553	< 110	**88,000**	**8,100**	**4,800**	**2,900**	**5,200**	**3,100**
Tetrahydrofuran	<0.590	**71.7**	<0.590	<0.590	**3.10**	**54,000**	**4,100**	**170**	< 0.59	**2.9**	**2.5**	**2.1**
Toluene	**2.44**	<1.88	<1.88	<1.88	<0.328	--	**1,200**	**120**	**57**	**1.5**	**6.0**	**1.9**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<1.10	--	< 370	< 19	< 4.7	< 4.7	< 4.7	< 4.7
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.400	--	< 87	< 4.4	< 1.1	< 1.1	< 1.1	< 1.1
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.422	< 87	< 87	< 4.4	< 1.1	< 1.1	< 1.1	< 1.1
Trichloroethylene	**2.20**	<1.07	<1.07	<1.07	<0.364	< 130	< 86	< 4.3	**1.8**	**1.8**	**7.0**	**1.9**
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.375	< 86	< 79	**270**	**4.1**	**1.0**	**4.6**	**3.3**
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.382	--	< 79	**5.9**	**1.4**	< 0.98	**1.5**	< 0.98
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.621	--	< 75	< 3.7	**12**	< 0.93	< 0.93	< 0.93
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.243	--	< 41	< 2.0	< 0.51	< 0.51	< 0.51	< 0.51
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.373	< 41	< 70	< 3.5	< 0.87	< 0.87	< 0.87	< 0.87
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704 UJ	<0.408 J	--	< 56	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70
m&p-Xylene	<1.73	<1.73	<1.73	<1.73	<0.585	< 56	< 140	< 6.9	**22**	**2.3**	**10**	**4.3**
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.359	--	< 69	< 3.5	**6.9**	**0.87**	**4.1**	**1.5**
TPHg	<826	<826	<826	<826	<164	--	**66,000**	**7,400**	**2,600**	**1,700**	**1,200**	**2,300**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-12	SV-12	SV-12 DUP	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12
Depth (ft bgs)	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
Date	9/17/2015	12/14/2015	12/14/2015	3/7/2016	6/9/2016	9/16/2016	12/12/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018
Acetone	**9.90**	< 2.97	**3.29**	**11.00**	< 2.97	**17.8**	< 2.97	--	**6.52**	**51.8**	<2.97	**58.8**
Allyl Chloride	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	--	<0.626	<0.626	<0.626	<0.626
Benzene	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	**1.41**	**0.675**	**0.399**	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	--	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	--	<1.34	<1.34	<1.34	<1.34
Bromoform	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	--	<6.21	<6.21	<6.21	<6.21
Bromomethane	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	--	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	--	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	< 0.622	< 0.622	< 0.622	< 0.622	< 0.622	< 0.622	< 0.622	--	<0.622	**2.86**	<0.622	<0.622
Carbon Tetrachloride	< 1.26	< 1.26	< 1.26	**1.52**	< 1.26	< 1.26	< 1.26	**0.587**	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	--	<0.924	<0.924	<0.924	<0.924
Chloroethane	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	<0.106	<0.528	<0.528	<0.528	<0.528
Chloroform	< 0.973	< 0.973	< 0.973	< 0.973	< 0.973	< 0.973	< 0.973	**0.269**	<0.973	<0.973	<0.973	<0.973
Chloromethane	< 0.413	< 0.413	< 0.413	**0.55**	< 0.413	**0.757**	**1.080**	**0.213**	**1.04**	**1.56**	<0.413	<0.413
2-Chlorotoluene	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	--	<1.03	<1.03	<1.03	<1.03
Cyclohexane	< 0.689	< 0.689	< 0.689	**24.5**	< 0.689	< 0.689	< 0.689	--	<0.689	**18.9**	**2.58**	<0.689
Dibromochloromethane	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	--	<1.70	<1.70	<1.7	<1.7
1,2-Dibromoethane	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	<0.154	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	--	<1.20	<1.20	<1.2	<1.2
1,3-Dichlorobenzene	< 1.20	< 1.20	**2.9**	< 1.20	< 1.20	**2.78**	< 1.20	--	<1.20	<1.20	<1.2	<1.2
1,4-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	**0.222**	<1.20	<1.20	<1.2	<1.2
1,2-Dichloroethane	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	--	<0.810	<0.810	<0.81	<0.802
1,1-Dichloroethane	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	<0.0802	<0.802	<0.802	<0.802	<0.81
1,1-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.0793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.0793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.0793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	<0.139	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.0908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.136	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	**0.778**	< 0.721	--	<0.721	<0.721	<0.721	<0.721
Ethanol	**38.7**	**2.50**	**9.48**	**15.10**	**3.11**	**91.0**	< 1.19	--	**2.74**	**13.2**	<1.19	**2.49**
Ethylbenzene	< 0.867	< 0.867	< 0.867	**1.3**	< 0.867	**3.92**	< 0.867	**0.388**	<0.867	**3.14**	<0.867	**2.61**
4-Ethyltoluene	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	**1.63**	< 0.982	--	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.29**	**1.53**	**1.56**	**2.81**	**1.27**	**1.75**	**1.36**	--	**1.57**	**1.40**	**1.26**	**1.29**
Dichlorodifluoromethane	**2.51**	**1.67**	**1.78**	**3.00**	**1.89**	**1.88**	**2.44**	--	**1.77**	**1.69**	**1.47**	**1.49**
1,1,2-Trichlorotrifluoroethane	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	--	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	--	<1.40	<1.40	<1.4	<1.4
Heptane	< 0.818	< 0.818	< 0.818	**2.21**	< 0.818	**4.05**	< 0.818	--	<0.818	**2.88**	<0.818	<0.818
Hexachloro-1,3-butadiene	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	--	<6.73	<6.73	<6.73	<6.73
n-Hexane	< 0.705	< 0.705	< 0.705	**11.4**	**1.37**	**9.54**	< 0.705	--	<0.705	**5.39**	<0.705	**1.89**
Isopropylbenzene	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	--	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	< 0.694	< 0.694	< 0.694	**10.7**	< 0.694	**1.97 B**	< 0.694	--	<0.694	**1.66**	<0.694	<0.694
Methyl Butyl Ketone	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	--	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	**9.9**	< 3.69	--	**8.98**	**170**	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	--	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	< 0.819	< 0.819	< 0.819	< 0.819	< 0.819	**1.82**	< 0.819	--	<0.819	<0.819	<0.819	<0.819
MTBE	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	--	<0.721	<0.721	<0.721	<0.721
Naphthalene	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	--	<3.30	<3.30	<3.3	<3.3
2-Propanol	< 3.07	**3.97**	**18.0**	**< 3.07**	**7.6**	**1470**	< 3.07	--	**3.24**	**10.6**	<3.07	**58.0**
Propene	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	**1.29**	--	**0.852**	**1.16 J**	<0.689	<0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.851	< 0.851	< 0.851	**1.59**	< 0.851	**3.00**	< 0.851	--	<0.851	**1.34**	<0.851	<0.851
1,1,2,2-Tetrachloroethane	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	<0.137	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**819**	**2,230**	**1,220 M**	**9,650**	**1,280 M**	**159**	**44.7**	**681**	**153**	**44.8**	**169**	**72.1**
Tetrahydrofuran	< 0.590	< 0.590	**1.06**	< 0.590	< 0.590	**33.9**	**2.12**	--	**705**	**817**	**1.82**	**4.99**
Toluene	**1.3**	< 0.753	**2.02**	**3.3**	< 0.753	**21.0**	**1.09**	--	<0.753	**11.1**	<0.753	**1.94**
1,2,4-Trichlorobenzene	< 4.66	< 4.66	< 4.66	< 4.66	< 4.66	< 4.66	< 4.66	--	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	<0.109	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	<0.163	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	< 1.07	**1.2**	< 1.07	**2.8**	< 1.07	< 1.07	< 1.07	**0.22**	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	**2.75**	< 0.982	**1.18**	**3.08**	< 0.982	**5.7**	< 0.982	--	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	**1.94**	< 0.982	--	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	< 0.934	< 0.934	< 0.934	**9.51**	< 0.934	**1.24**	< 0.934	--	<0.934	**4.17**	<0.934	<0.934
Vinyl Chloride	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	<0.0511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	--	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	<0.0704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	**2.97**	< 1.73	**2.77**	**5.82**	< 1.73	**14.7**	< 1.73	--	<1.73	**9.34**	<1.73	**10.1**
o-Xylene	**1.36**	< 0.867	**1.03**	**2.18**	< 0.867	**5.41**	< 0.867	--	<0.867	**2.66**	<0.867	**3.06**
TPHg	**721**	**963**	**688 M**	**3,010**	**1,560**	**1,100**	< 207	--	**818**	**565**	**239**	**1,050**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12
Depth (ft bgs)	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
Date	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/4/2020	1/25/2021	8/31/2021	1/26/2022
Acetone	<2.97	<2.97	3.81 J+	<2.97	**89.2**	**3.96**	<2.97	**4.42**	**27.6**	<2.97	<2.97	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<2.3	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.47	<0.639	<0.639	**0.840**	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<3.8	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<2	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<7.6	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<1.1	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<0.65	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	**1.00**	**0.952**	<0.91	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.8	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<1.3	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.77	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.71	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	<0.413	**0.439**	**<0.413**	**0.807**	<0.6	**1.03**	<0.413	<0.413	**0.442**	**0.459**	**0.434**	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	--	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<2.5	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<2.5	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.1	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	5.35	<1.20	<1.8	<1.20	<1.20	**2.22**	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<4.4	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.59	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<1.2	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<1.4	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<5.3	<0.721	<0.721	<0.721	**1.58**	**<0.721**	<0.721	<0.721
Ethanol	**1.75**	<1.19	6.35	**4.90**	**3.6**	**7.33**	**4.64**	**6.92**	**187**	**2**	<2.36	<2.36
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<1.3	<0.867	<0.867	**2.78**	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	1.38	<0.982	<3.6	<0.982	<0.982	**5.25**	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.14**	**1.33**	**1.85**	**2.51**	<1.6	<1.12	**1.30**	**1.46**	**1.59**	**1.28**	**1.45**	**1.66**
Dichlorodifluoromethane	**1.44**	**1.78**	**2.06**	**1.66**	**2.3**	**2.10**	**2.23**	<0.989	**2.71**	**2.37**	**2.91**	**2.54**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<2.2	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<2	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<1.2	<0.818	<0.818	**1.90**	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<7.8	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	<0.705	<0.705	2.58	<0.705	<1	<0.705	**1.65**	**1.08**	<2.22	<2.22	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<3.6	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	**0.858**	<0.694	5.67	<0.694	<5.1	<0.694	**1.47**	<0.694	<0.694	<0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<6	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<4.3	**9.58**	<3.69	**8.61**	**5.84**	**<3.69**	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<6	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<1.2	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721	**1.14**	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<3.8	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	<3.07	<3.07	<3.07	<3.07	**33.7**	**5.20**	<3.07	<3.07	**15.5**	**<3.07**	<3.07	<3.07
Propene	<0.689	<0.689	<0.689	<0.689	<0.5	<0.689	<0.689	<0.689	<0.689	<0.689	<2.15	<2.15
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	<0.982
Styrene	<0.851	<0.851	<0.851	<0.851	<1.2	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**8.32**	**171**	**507**	**749**	**32.7**	**183**	**72.6**	<1.36	**37.7**	**167.0**	**34.8**	**21.9**
Tetrahydrofuran	**9.04**	**1.22**	**2.57**	<0.590	**1.3**	**677**	**16.3**	**19.3**	<0.590	<0.590	**0.852**	<0.590
Toluene	**1.02**	<0.753	1.57	<0.753	<1.1	**0.863**	<0.753	**15.4**	<1.88	<1.88	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<10.9	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.6	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.8	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<0.79	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	1.89	<0.982	<1.4	<0.982	<0.982	**6.09**	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<1.4	<0.982	<0.982	**1.91**	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	0.965	<0.934	<0.934	<0.934	<3.4	<0.934	<0.934	**1.37**	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.37	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<1.3	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<1	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	<1.73	<1.73	2.71	<1.73	<2.5	<1.73	<1.73	**11.6**	<1.73	<1.73	<1.73	<1.73
o-Xylene	<0.867	<0.867	1.13	<0.867	<1.3	<0.867	<0.867	**4.77**	<0.867	<0.867	<0.867	<0.867
TPHg	<207	**873**	**763**	**898**	**411**	**435 J+**	<207	<826	<826	<826	<826	<826

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	VP-A	VP-A	VP-A	VP-A
Depth (ft bgs)	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	5	5	5	5
Date	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023	12/20/2023	7/23/2024	1/24/2025	5/12/2014	7/16/2014	9/15/2014	3/16/2015
Acetone	**8.39**	<2.97	<2.97	**3.59**	<1.39	<2.97	<2.97	<2.97	**31**	< 12	**11**	**4.3**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626	<0.626	<0.626	< 2.5	< 2.5	< 0.63	< 0.63
Benzene	<0.639	<0.639	**0.754**	<0.639	<0.228	<0.639	<0.639	<0.639	< 2.6	< 2.6	< 0.64	**0.89**
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04	<1.04	<1.04	< 4.2	< 4.2	< 1.0	< 1.0
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34	<1.34	<1.34	< 5.4	< 5.4	< 1.3	< 1.3
Bromoform	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21	<6.21	<6.52	< 25	< 25	< 6.2	< 6.2
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.381	<0.776	<0.776	<0.776	< 3.1	< 3.1	< 0.78	< 0.78
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<0.230	<4.43	<4.43	<4.43	< 18	< 18	< 4.4	< 4.4
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.317	<0.622	<1.24	<1.24	< 2.5	< 2.5	**0.65**	< 0.62
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26	<1.26	<1.26	< 5.0	< 5.0	< 1.3	< 1.3
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924	<0.924	<0.924	< 3.7	< 3.7	< 0.92	< 0.92
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528	<0.528	<0.528	< 2.1	< 2.1	< 0.53	< 0.53
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973	<0.973	<0.973	< 3.9	< 3.9	< 0.97	< 0.97
Chloromethane	<0.413	**0.516**	<0.413	<0.413	<0.213	<0.413	<0.413	<0.413	< 1.7	< 1.7	< 0.41	< 0.41
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03	<1.03	<1.03	< 4.1	< 4.1	< 1.0	< 1.0
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689	<0.689	<0.689	< 2.8	< 2.8	< 0.69	**1.3**
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<0.618	<1.7	**2.14**	**2.42**	< 6.8	< 6.8	< 1.7	< 1.7
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54	<1.54	<1.54	< 6.2	< 6.2	< 1.5	< 1.5
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.770	<1.2	<1.20	<1.20	< 4.8	< 4.8	< 1.2	< 1.2
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.09	<1.2	<1.20	<1.20	< 4.8	< 4.8	< 1.2	< 1.2
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.335	<1.2	<1.20	<1.20	< 4.8	< 4.8	< 1.2	< 1.2
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.283	<0.81	<0.810	<0.810	< 3.2	< 3.2	< 0.81	< 0.81
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.290	<0.802	<0.802	<0.802	< 3.2	< 3.2	< 0.80	< 0.80
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.302	<0.793	<0.793	<0.793	< 3.2	< 3.2	< 0.79	< 0.79
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.311	<0.793	<0.793	<0.793	< 3.2	< 3.2	< 0.79	< 0.79
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.267	<0.793	<0.793	<0.793	**4.0**	< 3.2	< 0.79	< 0.79
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.351	<0.924	<0.924	<0.924	< 3.7	< 3.7	< 0.92	< 0.92
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.313	<0.908	<0.908	<0.908	< 3.6	< 3.6	< 0.91	< 0.91
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.331	<0.908	<0.908	<0.908	< 3.6	< 3.6	< 0.91	< 0.91
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.300	<2.27	<2.27	<2.27	< 2.9	< 2.9	< 0.72	< 0.72
Ethanol	**13.6**	<2.36	**2.75**	**5.19 J+**	**6.13 J+**	<4.71	<4.71	<4.71	**14**	< 4.8	**11**	**16 M**
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867	<0.867	<0.867	< 3.5	< 3.5	**1.3**	**1.5**
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982	<0.982	<0.982	< 3.9	< 3.9	**1.1**	**1.4**
Trichlorofluoromethane	**1.80**	**1.42**	**1.49**	**1.43**	**1.25**	**1.15**	**1.23**	**1.56**	**4.8**	< 4.5	**4.7**	**3.8**
Dichlorodifluoromethane	**2.75**	**2.39**	**2.69**	**2.32**	**2.08**	**1.72**	**2.14**	**2.42**	**5.4**	**5.9**	**5.4**	**3.6**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<0.608	<1.53	<1.53	<1.53	< 6.1	< 6.1	< 1.5	< 1.5
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<0.622	<1.4	<1.40	<1.40	< 5.6	< 5.6	< 1.4	< 1.4
Heptane	<0.818	<0.818	<0.818	<0.818	<0.425	<0.818	<0.818	<0.818	< 3.3	< 3.3	< 0.82	**1.4**
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<1.12	<6.73	<6.73	<6.73	< 27	< 27	< 6.7	< 6.7
n-Hexane	<2.22	<2.22	<2.22	<2.22	<0.726	<2.22	<2.22	<2.22	< 2.8	< 2.8	< 0.71	**1.9**
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983	<0.983	<0.983	< 3.9	< 3.9	< 0.98	< 0.98
Methylene Chloride	**0.715**	<0.694	<0.694	<0.694	<0.340	**0.733**	<0.694	<0.694	**5.6**	< 2.8	< 0.69	< 0.69
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<0.544	<5.11	<5.11	<5.11	< 20	< 20	< 5.1	< 5.1
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<0.240	<3.69	<3.69	<3.69	< 15	< 15	< 3.7	**4.7**
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<0.313	<5.12	<5.12	<5.12	< 20	< 20	< 5.1	< 5.1
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819	<0.819	<0.819	< 3.3	< 3.3	< 0.82	< 0.82
MTBE	<0.721	<0.721	<0.721	<0.721	**1.56**	<0.721	**0.760**	<0.721	< 2.9	< 2.9	< 0.72	< 0.72
Naphthalene	<3.30	<3.30	<3.30	<3.30	<1.83	<3.3	<3.30	<3.30	< 13	< 13	**6.3**	< 3.3
2-Propanol	**38.3**	<3.07	<3.07	<3.07	<0.649	<3.07	<3.07	<3.07	< 12	< 12	**4.4**	< 3.1
Propene	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15	<2.15	<2.15	< 2.8	< 2.8	< 0.69	< 0.69
n-Propylbenzene	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982	<0.982	<0.982	--	--	--	--
Styrene	<0.851	**1.18**	<0.851	<0.851	<0.335	<0.851	<1.70	<1.70	< 3.4	< 3.4	< 0.85	< 0.85
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<0.511	<1.37	<1.37	<1.37	< 5.5	< 5.5	< 1.4	< 1.4
Tetrachloroethylene	**3.02**	**29.8**	**208**	**13.9**	**33.5**	**25.3**	**82.8**	**138**	**7,500**	**8,100**	**8,100**	**2,400**
Tetrahydrofuran	<0.590	<0.590	<0.590	<0.590	**3.33**	<0.59	<0.590	<0.590	< 2.4	< 2.4	< 0.59	**1.7**
Toluene	**2.74**	<1.88	<1.88	<1.88	<0.328	<1.88	<1.88	<1.88	**3.5**	**6.8**	**3.6**	**7.2**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<1.10	<4.66	<4.66	<4.66	< 19	< 19	< 4.7	< 4.7
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.400	<1.09	<1.09	<1.09	< 4.4	< 4.4	**1.3**	< 1.1
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.422	<1.09	<1.09	<1.09	< 4.4	< 4.4	< 1.1	< 1.1
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<0.364	<1.07	<1.07	<1.07	< 4.3	< 4.3	**1.9**	< 1.1
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982	<0.982	<0.982	< 3.9	**12**	**3.9**	**4.9**
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.382	<0.982	<0.982	<0.982	< 3.9	**4.1**	**1.2**	**1.5**
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.621	<0.934	<0.934	<0.934	< 3.7	< 3.7	< 0.93	< 0.93
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511	<0.511	<0.511	< 2.0	< 2.0	< 0.51	< 0.51
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875	<0.875	<0.875	< 3.5	< 3.5	< 0.87	< 0.87
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704 UJ	<0.408 J	<2.22 J	<2.22	<2.22	< 2.8	< 2.8	< 0.70	< 0.70
m&p-Xylene	**2.04**	<1.73	<1.73	<1.73	<0.585	<1.73	<1.73	<1.73	< 6.9	< 6.9	**6**	**13**
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867	<0.867	<0.867	< 3.5	< 3.5	**2.2**	**4.8**
TPHg	<826	<826	<826	<826	<164	<826	<826	<826	**4,100**	**6,600**	**3,000**	**1,000**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-A	VP-A	VP-A DUP	VP-A	VP-A DUP	VP-A	VP-A DUP	VP-A	VP-A	VP-A	VP-A	VP-A
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	12/14/2015	3/7/2016	3/7/2016	6/9/2016	6/9/2016	9/12/2016	9/12/2016	12/12/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017
Acetone	**45.9**	**4.72**	**3.18**	**45.6 M**	< 2.97	< 2.97	**3.83**	**4.85**	<2.97	**28.6**	<2.97	**4.76**
Allyl Chloride	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626
Benzene	**1.38**	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	<0.639	**0.694**	<0.639	<0.639
Benzyl Chloride	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	< 1.34	< 1.34	< 1.36	< 1.34	< 1.36	< 1.34	< 1.34	< 1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	< 0.622	< 0.622	< 0.622	**1.39 M**	< 0.622	< 0.622	< 0.622	**0.731**	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	**3.64**	< 0.973	< 0.973	< 0.973	< 0.973	< 0.973	< 0.973	< 0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413
2-Chlorotoluene	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	<0.689	**2.00**	**1.85**	**3.30**
Dibromochloromethane	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	<1.7	<1.70	<1.70	<1.7
1,2-Dibromoethane	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2
1,3-Dichlorobenzene	< 1.20	**4.49**	**14.1**	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2
1,4-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2
1,2-Dichloroethane	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	<0.81	<0.810	<0.810	<0.81
1,1-Dichloroethane	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**7.78**	**14.5**	**5.20**	**9.98 M**	**2.48 M**	**4.62**	**16.5**	< 1.19	**4.61**	**52.2**	**2.48**	**4.40**
Ethylbenzene	**1.34**	**1.98**	**1.21**	< 0.867	< 0.867	< 0.867	**1.09**	< 0.867	<0.867	**2.45**	<0.867	<0.867
4-Ethyltoluene	< 0.982	4.54	< 0.982	< 0.982	< 0.982	**1.38**	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.97**	**2.39**	**1.81**	**2.02 M**	**1.63 M**	**1.43**	**1.27**	**1.25**	**1.61**	**1.90**	**1.37**	**1.30**
Dichlorodifluoromethane	**2.98**	**2.79**	**2.40**	**1.72 M**	**2.23 M**	**2.12**	**1.59**	**2.32**	**1.91**	**2.08**	**1.41**	**2.06**
1,1,2-Trichlorotrifluoroethane	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	<1.4	<1.40	<1.40	<1.4
Heptane	**1.47**	**0.934**	< 0.818	< 0.818	< 0.818	< 0.818	**1.08**	< 0.818	<0.818	**1.49**	<0.818	<0.818
Hexachloro-1,3-butadiene	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	**1.59**	**0.927**	< 0.705	< 0.705	**4.11 M**	< 0.705	**1.87**	< 0.705	<0.705	**3.65**	<0.705	<0.705
Isopropylbenzene	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	**1.00 B**	< 0.694	<0.694	**2.55**	<0.694	<0.694
Methyl Butyl Ketone	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	**22.2**	**4.12**	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	<3.69	**8.19**	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	< 0.819	< 0.819	< 0.819	< 0.819	< 0.819	< 0.819	< 0.819	< 0.819	<0.819	**11.9**	<0.819	<0.819
MTBE	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	<3.3	<3.30	<3.30	<3.3
2-Propanol	**8.95**	**16.3**	**33.7**	< 3.07	**24.2 M**	**34.3**	**27.3**	< 3.07	<3.07	**12.1**	<3.07	<3.07
Propene	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.851	**2.62**	**1.61**	< 0.851	< 0.851	< 0.851	**1.38**	< 0.851	<0.851	**3.00**	<0.851	<0.851
1,1,2,2-Tetrachloroethane	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**47.2**	**1140**	**949**	**5,730 M**	**367 M**	**6,070**	**5,390**	**1,630**	**1,270**	**2,640**	**2,570**	**1,500**
Tetrahydrofuran	< 0.590	**2.75**	< 0.590	< 0.590	< 0.590	**1.91**	**1.68**	< 0.590	<0.59	**18.7**	<0.590	<0.59
Toluene	**6.99**	**5.44**	**2.13**	< 0.753	**0.875 M**	**1.98**	**5.48**	< 0.753	**1.25**	**18.6**	**1.78**	**1.94**
1,2,4-Trichlorobenzene	< 4.66	< 4.66	< 0.466	< 4.66	< 0.466	< 4.66	< 4.66	< 4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	**5.59**	< 1.07	< 1.07	**1.40 M**	< 1.07	**1.28**	**1.07**	< 1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	**2.35**	**5.67**	**4.63**	< 0.982	< 0.982	**1.65**	**2.25**	< 0.982	<0.982	**2.07**	<0.982	<0.982
1,3,5-Trimethylbenzene	< 0.982	**1.54**	**1.15**	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	**1.05**	< 0.934	**41.4**	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	<0.934	**1.11**	<0.934	<0.934
Vinyl Chloride	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	**5.81**	**9.57**	**5.86**	< 1.73	< 1.73	**2.80**	**3.65**	< 1.73	<1.73	**5.94**	**2.53**	<1.73
o-Xylene	**1.99**	**3.8**	**2.41**	< 0.867	< 0.867	**1.07**	**1.52**	< 0.867	<0.867	**2.46**	<0.867	<0.867
TPHg	< 207	**834**	**845**	**2,390 M**	**449 M**	**2,050**	**1,770**	**941**	**1,100**	**1,630**	**1,510**	**897**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5	5
Date	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/4/2020	8/31/2021	1/26/2022	7/18/2022
Acetone	**58.3**	<2.97	<2.97	**8.27**	**3.44**	**9.6**	**73.1**	<2.97	**5.87**	**9.39**	<2.97	<2.97	**3.85**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<2.3	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	**6.5**	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<3.8	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<2	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<7.6	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<1.1	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<0.65	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	**1.4**	<0.622	<0.622	<0.622	**1.13**	<0.622	<0.622	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.8	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<1.3	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.77	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.71	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	<0.413	<0.413	<0.413	**1.23**	<0.413	<0.6	**0.871**	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	--	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.689	<2.5	<0.689	<0.689	**1.22**	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	<1.7	<1.70	<1.70	<1.70	<1.70	<2.5	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.1	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	**1.98**	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	<1.2	<1.20	<1.20	<1.20	<1.20	<4.4	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.81	<0.810	<0.810	<0.810	<0.810	<0.59	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<1.2	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**5.16**	<1.19	**1.79**	**6.53**	**1.76**	**6.4**	**25.7**	**1.76**	**6.22**	**20.2**	**2.92 J+**	<2.36	**2.49**
Ethylbenzene	**2.43**	<0.867	<0.867	<0.867	<0.867	**8.3**	<0.867	<0.867	**2.48**	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.982	<3.6	<0.982	<0.982	**5.69**	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.65**	**1.48**	**1.81**	**1.31**	**1.40**	**2.0**	**1.25**	<1.12	**1.35**	**1.35**	**1.57**	**1.26**	**2.13**
Dichlorodifluoromethane	**1.55**	**1.54**	**2.03**	**2.17**	**1.48**	**2.3**	**2.47**	**1.97**	**2.63**	**2.32**	**2.92**	**2.65**	**2.43**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<2.2	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.4	<1.40	<1.40	<1.40	<1.40	<2	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	**3.5**	<0.818	<0.818	**1.30**	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<6.73	<7.8	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	**1.83**	<0.705	<0.705	**3.00**	<0.705	**4.8**	**0.833**	<0.705	**0.716**	<2.22	<2.22	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<3.6	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	<0.694	<0.694	<0.694	**5.89**	<0.694	**5.9**	**1.08 J+**	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<6	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<3.69	**5.9 J+**	<3.69	<3.69	**9.02**	<3.69	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<5.12	<6	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<1.2	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	<3.3	<3.30	<3.30	<3.30	<3.30	**4.1**	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	**47.3**	<3.07	<3.07	**14.7**	<3.07	<3.6	**3.39**	<3.07	<3.07	**3.91**	<3.07	**7.55**	<3.07
Propene	<0.689	<0.689	<0.689	<0.689	<0.689	<0.5	<0.689	<0.689	<0.689	<0.689	<2.15	<2.15	<2.15
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	<0.982	<0.982
Styrene	<0.851	<0.851	<0.851	<0.851	<0.851	<1.2	**5.47**	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1.37	<1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**849**	**1,680**	**2,150**	**773**	**300**	**702**	**1,640**	**475**	**147**	**788**	**1,850**	**461**	**1,700**
Tetrahydrofuran	**3.96**	<0.590	<0.590	<0.590	<0.590	**3.0**	<0.590	<0.590	**18.7**	<0.590	<0.590	<0.590	<0.590
Toluene	**1.92**	<0.753	<0.753	<0.753	<0.753	**6.0**	**6.88**	<0.753	**11.1**	<1.88	<1.88	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<10.9	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.6	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<0.8	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<0.79	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	**8.9**	<0.982	<0.982	**6.87**	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	**1.6**	<0.982	<0.982	**2.13**	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<3.4	<0.934	<0.934	**1.14**	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.37	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<1.3	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<1	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	**9.44**	<1.73	<1.73	<1.73	<1.73	**17.4**	<1.73	<1.73	**10.6**	<1.73	<1.73	<1.73	<1.73
o-Xylene	**2.96**	<0.867	<0.867	<0.867	<0.867	<1.3	<0.867	<0.867	**4.47**	<0.867	<0.867	<0.867	<0.867
TPHg	**1,480**	**1,040**	**1,500**	**698**	**337 J+**	**1,570**	**755 J+**	**399**	<826	<1650	**2,850 J+**	<826	**1,750**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-A	VP-A	VP-A	VP-A	VP-A	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	8/18/2022	1/18/2023	4/3/2023	8/22/2023	12/20/2023	5/12/2014	7/13/2014	9/15/2014	11/11/2014	3/16/2015	12/14/2015	3/7/2016
Acetone	<2.97	**3.66**	<2.97	<1.39	**4.25**	**11**	< 59	< 59	< 48	**4.3**	**26.5**	**6.16**
Allyl Chloride	<0.626	<0.626	<0.626	<0.357	<0.626	< 0.63	< 13	< 13	< 10	< 0.63	< 0.626	< 0.626
Benzene	<0.639	<0.639	<0.639	<0.228	<0.639	**0.77**	< 13	< 13	< 10	**0.89**	**0.744**	< 0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<0.311	<1.04	< 1.0	< 21	< 21	< 17	< 1.0	< 1.04	< 1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<0.471	<1.34	< 1.3	< 27	< 27	< 21	< 1.3	< 1.34	< 1.34
Bromoform	<6.21	<6.21	<6.21	<0.757	<6.21	< 6.2	< 120	< 120	< 99	< 6.2	< 6.21	< 6.21
Bromomethane	<0.776	<0.776	<0.776	<0.381	<0.776	< 0.78	< 16	< 16	< 12	< 0.78	< 0.776	< 0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<0.230	<4.43	< 4.4	< 89	< 89	< 71	< 4.4	< 4.43	< 4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.317	<0.622	< 0.62	< 12	< 12	< 10	< 0.62	< 0.622	< 0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<0.461	<1.26	< 1.3	< 25	< 25	< 20	< 1.3	< 1.26	< 1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.385	<0.924	< 0.92	< 18	< 18	< 15	< 0.92	< 0.924	< 0.924
Chloroethane	<0.528	<0.528	<0.528	<0.263	<0.528	< 0.53	< 11	< 11	< 8.4	< 0.53	< 0.528	< 0.528
Chloroform	<0.973	<0.973	<0.973	<0.349	<0.973	< 0.97	< 19	< 19	< 16	< 0.97	**1.24**	**1.20**
Chloromethane	<0.413	<0.413	<0.413	<0.213	<0.413	**1.4**	< 8.3	< 8.3	< 6.6	< 0.41	< 0.413	< 0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<0.427	<1.03	< 1.0	< 21	< 21	< 16	< 1.0	< 1.03	< 1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.259	<0.689	< 0.69	< 14	< 14	< 11	**1.2**	< 0.689	< 0.689
Dibromochloromethane	<1.70	<1.7	<1.70	<0.618	<1.7	< 1.7	< 34	< 34	< 27	< 1.7	< 1.70	< 1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<0.554	<1.54	< 1.5	< 31	< 31	< 25	< 1.5	< 1.54	< 1.54
1,2-Dichlorobenzene	<1.20	<1.2	<1.20	<0.770	<1.2	< 1.2	< 24	< 24	< 19	< 1.2	< 1.20	< 1.20
1,3-Dichlorobenzene	<1.20	<1.2	<1.20	<1.09	<1.2	< 1.2	< 24	< 24	< 19	**2.0 M**	**2.38**	**6.24**
1,4-Dichlorobenzene	<1.20	<1.2	<1.20	<0.335	<1.2	< 1.2	< 24	< 24	< 19	< 1.2	< 1.20	< 1.20
1,2-Dichloroethane	<0.810	<0.81	<0.810	<0.283	<0.81	< 0.81	< 16	< 16	< 13	< 0.81	< 0.810	< 0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.290	<0.802	< 0.80	< 16	< 16	< 13	< 0.80	< 0.802	**2.69**
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.302	<0.793	< 0.79	< 16	< 16	< 13	< 0.79	< 0.793	< 0.793
cis-1,2-Dichloroethene	<0.793	**1.08**	<0.793	<0.311	<0.793	< 0.79	< 16	< 16	< 13	< 0.79	< 0.793	< 0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.267	<0.793	**1.3**	< 16	< 16	< 13	< 0.79	< 0.793	< 0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.351	<0.924	< 0.92	< 18	< 18	< 15	< 0.92	< 0.924	< 0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.313	<0.908	< 0.91	< 18	< 18	< 15	< 0.91	< 0.908	< 0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.331	<0.908	< .091	< 18	< 18	< 15	< 0.91	< 0.908	< 0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.300	<2.27	< 0.72	< 14	< 14	< 12	< 0.72	< 0.721	< 0.721
Ethanol	<2.36	<2.36	<4.71	<0.500	**9.48 J+**	**12**	< 24	< 24	< 19	**47 M**	**26.4**	**8.43**
Ethylbenzene	<0.867	<0.867	<0.867	<0.362	<0.867	< 0.87	< 17	< 17	< 14	**1.3**	**0.885**	**1.17**
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.384	<0.982	< 0.98	< 20	< 20	< 16	**1.4**	< 0.982	**2.68**
Trichlorofluoromethane	**1.61**	**1.32**	**1.62**	**1.20**	**1.47**	**1.5**	< 22	< 22	< 18	**2.6**	**1.37**	**4.91**
Dichlorodifluoromethane	**2.37**	**3.01**	**3.36**	**1.96**	**2.65**	**2.4**	< 20	< 20	< 16	**2.6**	**1.64**	**2.17**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<0.608	<1.53	< 1.5	< 31	< 31	< 25	< 1.5	< 1.53	< 1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.4	**4.58**	<0.622	<1.4	< 1.4	< 28	< 28	< 22	< 1.4	< 1.40	< 1.40
Heptane	<0.818	<0.818	<0.818	<0.425	<0.818	< 0.82	< 16	< 16	< 13	**1.3**	< 0.818	< 0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<1.12	<6.73	< 6.7	< 130	< 130	< 110	< 6.7	< 6.73	< 6.73
n-Hexane	<2.22	<2.22	<2.22	<0.726	<2.22	**1.1**	< 14	< 14	< 11	**1.9**	**1.56**	< 0.705
Isopropylbenzene	<0.983	<0.983	<0.983	<0.382	<0.983	< 0.98	< 20	< 20	< 16	< 0.98	< 0.983	< 0.983
Methylene Chloride	<0.694	<0.694	<0.694	<0.340	**0.882**	**8.7**	< 14	< 14	< 11	< 0.69	< 0.694	< 0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<0.544	<5.11	< 5.1	< 100	< 100	< 82	< 5.1	< 5.11	< 5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<0.240	<3.69	< 3.7	< 74	< 74	< 59	< 3.7	**22.3**	< 3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<0.313	<5.12	< 5.1	< 100	< 100	< 82	< 5.1	< 5.12	< 5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.359	<0.819	< 0.82	< 16	< 16	< 13	< 0.82	< 0.819	< 0.819
MTBE	<0.721	<0.721	<0.721	<0.233	<0.721	< 0.72	< 14	< 14	< 12	< 0.72	< 0.721	< 0.721
Naphthalene	<3.30	<3.3	<3.30	<1.83	<3.3	**8.9**	< 66	< 66	< 53	< 3.3	< 3.30	< 3.30
2-Propanol	<3.07	<3.07	**6.64**	<0.649	<3.07	< 3.1	< 61	< 61	< 49	**34 M**	**39.3**	**14.2**
Propene	<2.15	<2.15	<2.15	<0.160	<2.15	**1.1**	< 14	< 14	< 11	**1.9**	< 0.689	< 0.689
n-Propylbenzene	<0.982	<0.982	<0.982	<0.379	<0.982	--	--	--	--	--	--	--
Styrene	**3.84**	<0.851	<0.851	<0.335	<0.851	< 0.85	< 17	< 17	< 14	< 0.85	< 0.851	**1.70**
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<0.511	<1.37	< 1.4	< 27	< 27	< 22	< 1.4	< 1.37	< 1.37
Tetrachloroethylene	**1,120**	**354**	**310**	**1,390**	**146**	**100**	**20,000**	**110,000**	**46,000**	**10,000**	**186**	**4,150**
Tetrahydrofuran	<0.590	<0.59	<0.590	<0.216	<0.59	< 0.59	< 12	< 12	< 9.4	**1.4**	**2.77**	**1.27**
Toluene	<1.88	<1.88	<1.88	<0.328	**5.91**	**2.9**	< 15	< 15	< 12	**6.4**	**3.69**	**3.85**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<1.10	<4.66	< 4.7	< 93	< 93	< 75	< 4.7	< 4.66	< 4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<0.400	<1.09	< 1.1	< 22	< 22	< 17	**1.4**	< 1.09	< 1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<0.422	<1.09	< 1.1	< 22	< 22	< 17	< 1.1	< 1.09	< 1.09
Trichloroethylene	<1.07	**27.4**	<1.07	<0.364	<1.07	< 1.1	< 21	< 21	< 17	**1.2**	**5.94**	**2.09**
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.375	<0.982	**3.4**	< 20	< 20	< 16	**4.4**	**1.55**	**3.44**
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.382	<0.982	< 0.98	< 20	< 20	< 16	**1.4**	< 0.982	< 0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.621	<0.934	< 0.93	< 19	< 19	< 15	< 0.93	**1.35**	< 0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.243	<0.511	< 0.51	< 10	< 10	< 8.2	< 0.51	< 0.511	< 0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.373	<0.875	< 0.87	< 17	< 17	< 14	< 0.87	< 0.875	< 0.875
Vinyl Acetate	<0.704	<0.704	<0.704 UJ	<0.408	<2.22	< 0.70	< 14	< 14	< 11	< 0.70	< 0.704	< 0.704
m&p-Xylene	<1.73	<1.73	<1.73	<0.585	<1.73	**3.4**	< 35	< 35	< 28	**10**	**3.67**	**5.89**
o-Xylene	<0.867	<0.867	<0.867	<0.359	<0.867	**1.0**	< 17	< 17	< 14	**3.9**	**1.38**	**2.22**
TPHg	**1,810**	<826	<826	**876 J+**	<826	< 210	**26,000**	**37,000**	**17,000**	**1,400**	**524**	**1,260**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	6/9/2016	9/12/2016	12/12/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019
Acetone	**5.77**	< 2.97	< 2.97	<2.97	**3.56**	<2.97	<2.97	**53.1**	**3.84**	<2.97	**5.56**	**4.92**
Allyl Chloride	< 0.626	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	**0.783**	< 0.639	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	< 1.04	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	< 1.34	< 1.34	< 1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	< 6.21	< 6.21	< 6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	< 0.776	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	< 4.43	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	**0.741**	< 0.622	**2.25**	<0.622	**0.969**	<0.622	<0.622	<0.622	<0.622	**1.24**	<0.622	<0.622
Carbon Tetrachloride	< 1.26	< 1.26	< 1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	< 0.528	< 0.528	< 0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	< 0.973	< 0.973	< 0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	< 0.413	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	**0.778**
2-Chlorotoluene	**39.9**	< 1.03	< 1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	< 0.689	< 0.689	< 0.689	<0.689	<0.689	<0.689	**2.61**	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	< 1.70	< 1.70	< 1.70	<1.7	<1.70	<1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	< 1.54	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	< 0.810	< 0.810	< 0.810	<0.81	<0.810	<0.810	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	< 0.802	< 0.802	< 0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	< 0.793	**1.07**	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**23.6**	**4.25**	< 1.19	**3.84**	**2.10**	**1.45**	**2.68**	**2.63**	<1.19	<1.19	**6.21**	**8.90**
Ethylbenzene	< 0.867	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.05**	**3.54**	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**2.1**	**1.26**	**1.18**	**1.42**	**1.60**	**1.33**	**1.13**	**1.48**	**1.35**	**1.44**	**1.38**	**1.31**
Dichlorodifluoromethane	**1.6**	**1.57**	**2.10**	**1.41**	**1.57**	**1.47**	**1.27**	**1.32**	**1.35**	**1.80**	**1.92**	**1.41**
1,1,2-Trichlorotrifluoroethane	< 1.53	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	< 1.40	< 1.40	< 1.40	<1.4	<1.40	<1.40	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40
Heptane	< 0.818	< 0.818	< 0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	< 6.73	< 6.73	< 6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	**2.03**	< 0.705	< 0.705	<0.705	<0.705	<0.705	<0.705	**1.96**	<0.705	<0.705	**7.38**	<0.705
Isopropylbenzene	< 0.983	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	**1.16**	< 0.694	< 0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**14.4**	**0.810**
Methyl Butyl Ketone	< 5.11	< 5.11	< 5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	< 3.69	< 3.69	< 3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	< 5.12	< 5.12	< 5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	< 0.819	< 0.819	< 0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	< 3.30	< 3.30	< 3.30	<3.3	<3.30	<3.30	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30
2-Propanol	< 3.07	**29.1**	< 3.07	<3.07	<3.07	<3.07	<3.07	**42.7**	<3.07	<3.07	<3.07	<3.07
Propene	< 0.689	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.851	< 0.851	< 0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851
1,1,2,2-Tetrachloroethane	< 1.37	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**7,730 M**	**5,660**	**1,580**	**1,450**	**2,810**	**3,520**	**884**	**620**	**1,490**	**4,470**	**711**	**307**
Tetrahydrofuran	**2.49**	**1.41**	< 0.590	<0.59	<0.59	<0.590	**10.1**	**3.18**	<0.590	<0.590	**1.12**	<0.590
Toluene	**3.34**	**1.57**	< 0.753	**3.13**	<0.753	<0.753	**2.67**	**1.60**	<0.753	<0.753	**0.97**	<0.753
1,2,4-Trichlorobenzene	< 4.66	< 4.66	< 4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	< 1.07	< 1.07	< 1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**5.23**	**<1.07**	<1.07
1,2,4-Trimethylbenzene	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	**2.80**	<0.982	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	**1.69**	< 0.934	< 0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	< 0.511	< 0.511	< 0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	< 0.875	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	< 0.704	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	**1.83**	< 1.73	< 1.73	<1.73	<1.73	<1.73	**4.54**	**14.2**	<1.73	<1.73	<1.73	<1.73
o-Xylene	< 0.867	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.66**	**4.20**	<0.867	<0.867	<0.867	<0.867
TPHg	**1,740**	**1,650**	**866**	**1,020**	**1,380**	**800**	**863**	**1,320**	**1,130**	**1,410**	**670**	**350 J+**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B	VP-B
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/4/2020	8/31/2021	1/26/2022	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023
Acetone	**42.5**	**7.88**	<2.97	<2.97	**12.4**	<2.97	**6.82**	**3.80**	**2.99**	**3.73**	<2.97	<1.39
Allyl Chloride	<2.4	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.357
Benzene	<0.48	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	**0.799**	<0.639	<0.639	<0.639	<0.228
Benzyl Chloride	<3.9	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<0.311
Bromodichloromethane	<2	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.471
Bromoform	<7.8	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<0.757
Bromomethane	<1.2	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.381
1,3-Butadiene	<0.67	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.230
Carbon Disulfide	<0.94	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.317
Carbon Tetrachloride	<1.9	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.461
Chlorobenzene	<1.4	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.385
Chloroethane	<0.8	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.263
Chloroform	**4.60**	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.349
Chloromethane	<0.63	<0.413	<0.413	<0.413	**0.535**	<0.413	<0.413	**1.01**	**0.467**	<0.413	<0.413	<0.213
2-Chlorotoluene	--	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<0.427
Cyclohexane	<2.6	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.259
Dibromochloromethane	<2.6	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.7	<1.70	<0.618
1,2-Dibromoethane	<1.2	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<0.554
1,2-Dichlorobenzene	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	<1.20	<0.770
1,3-Dichlorobenzene	<1.8	<1.20	<1.20	**1.64**	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	<1.20	<1.09
1,4-Dichlorobenzene	<4.6	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	<1.20	<0.335
1,2-Dichloroethane	<0.61	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.81	<0.810	<0.283
1,1-Dichloroethane	<1.2	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.290
1,1-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.302
cis-1,2-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	**3.73**	**3.66**	<0.793	<0.793	<0.311
trans-1,2-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.267
1,2-Dichloropropane	<1.4	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.351
cis-1,3-Dichloropropene	<1.4	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.313
trans-1,3-Dichloropropene	<1.4	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.331
1,4-Dioxane	<5.5	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.300
Ethanol	**10.6**	**1.43**	**4.88**	**3.98**	**56.60**	<2.36	<2.36	**15.4**	**5.20**	**3.22**	<4.71	**5.34 J+**
Ethylbenzene	<1.3	<0.867	<0.867	**1.56**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362
4-Ethyltoluene	<3.7	<0.982	<0.982	**3.58**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.384
Trichlorofluoromethane	<1.7	**1.27**	<1.12	**1.43**	**1.51**	**1.47**	**1.17**	**1.87**	**1.42**	**1.43**	**1.49**	<0.460
Dichlorodifluoromethane	**2.3**	**2.57**	**2.02**	**2.64**	**2.53**	**2.72**	**2.45**	**2.39**	**3.12**	**2.68**	**2.49**	**1.76**
1,1,2-Trichlorotrifluoroethane	<2.3	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<0.608
1,2-Dichlorotetrafluoroethane	<2.1	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.4	<1.40	<0.622
Heptane	<1.2	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	**0.855**	<0.818	<0.818	<0.425
Hexachloro-1,3-butadiene	<8.1	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<1.12
n-Hexane	<1.1	<0.705	**1.63**	<0.705	<2.22	<2.22	<2.22	<2.22	**2.63**	<2.22	<2.22	<0.726
Isopropylbenzene	<3.7	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.382
Methylene Chloride	**7.6**	<0.694	**1.32**	<0.694	**1.92**	<0.694	<0.694	**2.42**	<0.694	**0.736**	<0.694	<0.340
Methyl Butyl Ketone	<6.2	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<0.544
2-Butanone (MEK)	**8.8**	<3.69	<3.69	**4.69**	**5.13**	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<0.240
4-Methyl-2-pentanone (MIBK)	<6.2	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<0.313
Methyl methacrylate	**2.3**	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.359
MTBE	<5.5	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.233
Naphthalene	<4	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.3	<3.30	**24.1**
2-Propanol	**4.5**	<3.07	<3.07	<3.07	**6.29**	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<0.649
Propene	<0.52	<0.689	<0.689	<0.689	**0.768**	<2.15	<2.15	<2.15	<2.15	<2.15	<2.15	<0.160
n-Propylbenzene	--	--	--	--	--	--	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379
Styrene	<1.3	**1.26**	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	**2.02**	<0.851	<0.851	<0.335
1,1,2,2-Tetrachloroethane	<1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<0.511
Tetrachloroethylene	**693**	**1,590**	**331**	**433**	**754**	**1,830**	**333**	**1,570**	**1,550**	**236**	**279**	**2,760**
Tetrahydrofuran	<0.89	<0.590	**1.48**	**10.7**	<0.590	<0.590	<0.590	<0.590	**1.52**	<0.59	<0.590	<0.216
Toluene	<1.1	<0.753	**0.945**	**6.44**	**4.37**	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<0.328
1,2,4-Trichlorobenzene	<11.2	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<1.10
1,1,1-Trichloroethane	<1.7	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.400
1,1,2-Trichloroethane	<0.83	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.422
Trichloroethylene	**1.6**	**2.67**	<1.07	<1.07	<1.07	<1.07	<1.07	**4.33**	**6.86**	**1.17**	<1.07	**2.59**
1,2,4-Trimethylbenzene	<1.5	<0.982	**1.25**	**4.43**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.375
1,3,5-Trimethylbenzene	<1.5	<0.982	<0.982	**1.35**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.382
2,2,4-Trimethylpentane	<3.5	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.621
Vinyl Chloride	<0.39	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.243
Vinyl Bromide	<1.3	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.373
Vinyl Acetate	<1.1	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<0.408
m&p-Xylene	<2.6	<1.73	<1.73	**6.37**	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585
o-Xylene	<1.3	<0.867	<0.867	**2.76**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359
TPHg	**2,220**	**2,870**	**349**	<826	<1650	**2,270 J+**	<826	**1,660**	**1330 J+**	<826	<826	**1,410 J+**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-B	VP-B	VP-D	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D	VP-D	VP-D DUP	VP-D
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	12/20/2023	7/23/2024	5/12/2014	7/16/2014	7/16/2014	9/15/2014	9/15/2014	11/11/2014	3/16/2015	6/16/2015	6/16/2015	9/14/2015
Acetone	<2.97	**8.41**	< 12	< 24	< 24	**14 M**	**20 M**	**26**	**6.2**	**10**	**7.1**	**3.67**
Allyl Chloride	<0.626	<0.626	< 2.5	< 5.0	< 5.0	< 0.63	< 0.63	< 2.5	< 0.63	< 0.63	< 0.63	< 0.626
Benzene	<0.639	<0.639	< 2.6	< 5.1	< 5.1	**1.4 M**	**1.9 M**	< 2.6	< 0.64	< 0.64	< 0.64	< 0.639
Benzyl Chloride	<1.04	<1.04	< 4.2	< 8.3	< 8.3	< 1.0	< 1.0	< 4.2	< 1.0	< 1.0	< 1.0	< 1.04
Bromodichloromethane	<1.34	<1.34	< 5.4	< 11	< 11	< 1.3	< 1.3	< 5.4	< 1.3	< 1.3	< 1.3	< 1.34
Bromoform	<6.21	<6.21	< 25	< 50	< 50	< 6.2	< 6.2	< 25	< 6.2	< 6.2	< 6.2	< 6.21
Bromomethane	<0.776	<0.776	< 3.1	< 6.2	< 6.2	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 0.776
1,3-Butadiene	<4.43	<4.43	< 18	< 35	< 35	< 4.4	< 4.4	< 18	< 4.4	< 4.4	< 4.4	< 4.43
Carbon Disulfide	<0.622	<1.24	< 2.5	< 5.0	< 5.0	**5.0 M**	**3.4 M**	< 2.5	< 0.62	**0.93**	**0.81**	**1.24**
Carbon Tetrachloride	<1.26	<1.26	< 5.0	< 10	< 10	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	< 1.3	< 1.26
Chlorobenzene	<0.924	<0.924	< 3.7	< 7.4	< 7.4	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92	< 0.92	< 0.924
Chloroethane	<0.528	<0.528	< 2.1	< 4.2	< 4.2	< 0.53	< 0.53	< 2.1	< 0.53	< 0.53	< 0.53	< 0.528
Chloroform	<0.973	<0.973	< 3.9	< 7.8	< 7.8	< 0.97	< 0.97	< 3.9	< 0.97	< 0.97	< 0.97	**20.7**
Chloromethane	<0.413	<0.413	< 1.7	< 3.3	< 3.3	**1.1 M**	< 0.41 M	< 1.7	< 0.41	**0.87**	< 0.41	< 0.413
2-Chlorotoluene	<1.03	<1.03	< 4.1	< 8.2	< 8.2	< 1.0	< 1.0	< 4.1	< 1.0	< 1.0	< 1.0	< 1.03
Cyclohexane	<0.689	<0.689	< 2.8	< 5.5	< 5.5	< 0.69	< 0.69	< 2.8	**0.76**	< 0.69	< 0.69	< 0.689
Dibromochloromethane	<1.7	**2.09**	< 6.8	< 14	< 14	< 1.7	< 1.7	< 6.8	< 1.7	< 1.7	< 1.7	< 1.70
1,2-Dibromoethane	<1.54	<1.54	< 6.2	< 12	< 12	< 1.5	< 1.5	< 6.2	< 1.5	< 1.5	< 1.5	< 1.54
1,2-Dichlorobenzene	<1.2	<1.20	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20
1,3-Dichlorobenzene	<1.2	<1.20	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20
1,4-Dichlorobenzene	<1.2	<1.20	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20
1,2-Dichloroethane	<0.81	<0.810	< 3.2	< 6.5	< 6.5	< 0.81	< 0.81	< 3.2	< 0.81	< 0.81	< 0.81	< 0.810
1,1-Dichloroethane	<0.802	<0.802	< 3.2	< 6.4	< 6.4	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80	< 0.802
1,1-Dichloroethene	<0.793	<0.793	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793
cis-1,2-Dichloroethene	<0.793	<0.793	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793
trans-1,2-Dichloroethene	<0.793	<0.793	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793
1,2-Dichloropropane	<0.924	<0.924	< 3.7	< 7.4	< 7.4	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92	< 0.92	< 0.924
cis-1,3-Dichloropropene	<0.908	<0.908	< 3.6	< 7.3	< 7.3	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.908
trans-1,3-Dichloropropene	<0.908	<0.908	< 3.6	< 7.3	< 7.3	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.908
1,4-Dioxane	<2.27	<2.27	< 2.9	< 5.8	< 5.8	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.721
Ethanol	<4.71	<4.71	**8.5**	< 9.5	< 9.5	< 1.2 M	**7.2 M**	**8.1**	**11 M**	**8.9**	**4.7**	< 1.19
Ethylbenzene	<0.867	<0.867	< 3.5	< 6.9	< 6.9	**0.95**	**0.95**	< 3.5	**1.0**	< 0.87	< 0.87	< 0.867
4-Ethyltoluene	<0.982	<0.982	< 3.9	**9.8**	< 7.9	**1.3**	< 0.98	< 3.9	< 0.98	< 0.98	< 0.98	< 0.982
Trichlorofluoromethane	**1.15**	**1.31**	< 4.5	< 9.0	< 9.0	**1.2**	< 1.1	< 4.5	**1.7**	**1.6**	**1.6**	**1.49**
Dichlorodifluoromethane	**1.87**	**2.09**	**4.3**	< 7.9	< 7.9	**1.2**	< 0.99	**4.7**	**2.7**	**2.3**	**2.3**	**1.83**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	< 6.1	< 12	< 12	< 1.5	< 1.5	< 6.1	< 1.5	< 1.5	< 1.5	< 1.53
1,2-Dichlorotetrafluoroethane	<1.4	<1.40	< 5.6	< 11	< 11	< 1.4	< 1.4	< 5.6	< 1.4	< 1.4	< 1.4	< 1.40
Heptane	<0.818	<0.818	< 3.3	< 6.5	< 6.5	**0.98**	< 0.82	< 3.3	**0.90**	< 0.82	< 0.82	< 0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	< 27	< 54	< 54	< 6.7	< 6.7	< 27	< 6.7	< 6.7	< 6.7	< 6.73
n-Hexane	<2.22	<2.22	< 2.8	< 5.6	< 5.6	**1.9**	**1.7**	< 2.8	**1.2**	< 0.71	< 0.71	< 0.705
Isopropylbenzene	<0.983	<0.983	< 3.9	< 7.9	< 7.9	< 0.98	< 0.98	< 3.9	< 0.98	< 0.98	< 0.98	< 0.983
Methylene Chloride	<0.694	<0.694	**4.5**	< 5.6	< 5.6	**1.1 M**	< 0.69 M	< 2.8	< 0.69	**9.0**	< 0.69	< 0.694
Methyl Butyl Ketone	<5.11	<5.11	< 20	< 41	< 41	< 5.1	< 5.1	< 20	< 5.1	< 5.1	< 5.1	< 5.11
2-Butanone (MEK)	<3.69	<3.69	< 15	< 29	< 29	**3.8**	< 3.7	< 15	< 3.7	< 3.7	< 3.7	< 3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	< 20	< 41	< 41	< 5.1	< 5.1	< 20	< 5.1	< 5.1	< 5.1	< 5.12
Methyl methacrylate	<0.819	<0.819	< 3.3	< 6.6	< 6.6	< 0.82	< 0.82	< 3.3	< 0.82	< 0.82	< 0.82	< 0.819
MTBE	<0.721	<0.721	< 2.9	< 5.8	< 5.8	**7.6 M**	< 0.72 M	< 2.9	< 0.72	< 0.72	< 0.72	< 0.721
Naphthalene	<3.3	<3.30	< 13	< 26	< 26	< 3.3	< 3.3	< 13	< 3.3	< 3.3	< 3.3	< 3.30
2-Propanol	<3.07	<3.07	< 12	< 25	< 25	< 3.1	< 3.1	**14**	**3.9 M**	**4.7**	< 3.1	< 3.07
Propene	<2.15	<2.15	< 2.8	< 5.5	< 5.5	**2.6**	**2.6**	< 2.8	< 0.69	< 0.69	< 0.69	< 0.689
n-Propylbenzene	<0.982	<0.982	--	--	--	--	--	--	--	--	--	--
Styrene	<0.851	<1.70	< 3.4	< 6.8	< 6.8	< 0.85	< 0.85	< 3.4	< 0.85	< 0.85	< 0.85	< 0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	< 5.5	< 11	< 11	< 1.4	< 1.4	< 5.5	< 1.4	< 1.4	< 1.4	< 1.37
Tetrachloroethylene	**180**	**1,940**	**17,000**	**12,000**	**11,000**	**7.5 M**	**3.8 M**	**25,000**	**3,700**	**5,900**	**5,400**	**22,800**
Tetrahydrofuran	<0.59	<0.590	< 2.4	< 4.7	< 4.7	**2.1 M**	< 0.59 M	< 2.4	**1.3**	< 0.59	**0.59**	< 0.590
Toluene	<1.88	<1.88	< 3.0	**20 M**	< 6.0 M	**5.3**	**5.7**	< 3.0	**4.5**	**1.3**	**1.0**	< 0.753
1,2,4-Trichlorobenzene	<4.66	<4.66	< 19	< 37	< 37	< 4.7	< 4.7	< 19	< 4.7	< 4.7	< 4.7	< 4.66
1,1,1-Trichloroethane	<1.09	<1.09	< 4.4	< 8.7	< 8.7	< 1.1	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.09
1,1,2-Trichloroethane	<1.09	<1.09	< 4.4	< 8.7	< 8.7	< 1.1	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.09
Trichloroethylene	<1.07	**1.52**	< 4.3	< 8.6	< 8.6	< 1.1	< 1.1	< 4.3	< 1.1	< 1.1	< 1.1	< 1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	< 3.9	**28 M**	< 7.9 M	**4.8 M**	**2.9 M**	< 3.9	**3.8**	**1.1**	**1.3**	< 0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	< 3.9	**11 M**	< 7.9 M	**2.1 M**	< 0.98 M	< 3.9	**1.1**	< 0.98	< 0.98	< 0.982
2,2,4-Trimethylpentane	<0.934	<0.934	< 3.7	< 7.5	< 7.5	< 0.93	**1.1**	< 3.7	< 0.93	< 0.93	< 0.93	< 0.934
Vinyl Chloride	<0.511	<0.511	< 2.0	< 4.1	< 4.1	< 0.51	< 0.51	< 2.0	< 0.51	< 0.51	< 0.51	< 0.511
Vinyl Bromide	<0.875	<0.875	< 3.5	< 7.0	< 7.0	< 0.87	< 0.87	< 3.5	< 0.87	< 0.87	< 0.87	< 0.875
Vinyl Acetate	<2.22	<2.22	< 2.8	< 5.6	< 5.6	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.704
m&p-Xylene	<1.73	<1.73	< 6.9	< 14	< 14	**3.6**	**3.4**	< 6.9	**8.2**	**2.4**	**2.2**	< 1.73
o-Xylene	<0.867	<0.867	< 3.5	< 6.9	< 6.9	**1.5**	**1.2**	< 3.5	**3.1**	< 0.87	< 0.87	< 0.867
TPHg	<826	**1,360 J+**	**5,000**	**9,100**	**10,000**	**210**	**210**	**5,400**	**1,100**	**4,500**	**5,400**	**6,060**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-D DUP	VP-D	VP-D	VP-D	VP-D	VP-D	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	9/14/2015	12/14/2015	3/7/2016	6/9/2016	9/12/2016	12/12/2016	3/30/2017	3/30/2017	6/26/2017	6/26/2017	9/29/2017	9/29/2017
Acetone	**4.92**	< 2.97	**8.5**	< 2.97	< 2.97	< 2.97	<2.97	**17.1**	**9.21**	**9.65**	<2.97	**8.04**
Allyl Chloride	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	< 6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	< 0.622	< 0.622	< 0.622	< 0.622	< 0.622	< 0.622	<0.622	<0.622	<0.622	<0.622	<0.622	**3.65**
Carbon Tetrachloride	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	< 1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	**21.2**	**1.12**	< 0.973	**98.4**	**15.3**	**1.49**	<0.973	<0.973	**27.3**	**29.2**	**14.0**	**13.0**
Chloromethane	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413
2-Chlorotoluene	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	< 1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	<0.689	**0.931**	<0.689	<0.689	**1.66 J**	**23.8 J**
Dibromochloromethane	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	< 1.20	< 1.20	**12.7**	**12.7**	< 1.20	< 1.20	<1.2	**1.47**	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**2.54**	< 1.19 J3	**220**	< 1.19	**5.09**	< 1.19	**1.98 J**	**30.9 J**	**7.96 J**	**26.2 J**	**6.58 J**	**12.4 J**
Ethylbenzene	< 0.867	< 0.867	**1.8**	< 0.867	< 0.867	< 0.867	<0.867	**1.60**	<0.867	<0.867	<0.867	**4.85**
4-Ethyltoluene	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	<0.982	**0.982**	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.51**	**1.68**	**1.69**	**1.22**	**1.51**	**1.30**	**1.44**	**1.50**	**1.48**	**1.49**	**1.38**	**1.38**
Dichlorodifluoromethane	**2.37**	**2.11**	**2.42**	**1.46**	**2.05**	**2.20**	**1.36**	**1.50**	**1.45**	**1.45**	**1.32**	**1.38**
1,1,2-Trichlorotrifluoroethane	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40
Heptane	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	<0.818	**0.952**	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	< 6.73	< 6.73 J3	< 6.73	< 6.73	< 6.73	< 6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	< 0.705	< 0.705	**0.979**	< 0.705	< 0.705	< 0.705	<0.705	0.856	<0.705	**0.865**	<0.705	**0.742**
Isopropylbenzene	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	<0.694	**1.12 B**	**1.65 B, J**	**0.713 B, J**	**1.06 J**	**2.10 J**
Methyl Butyl Ketone	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	<3.69	<3.69	<3.69	<3.69	<3.69	**7.39**
4-Methyl-2-pentanone (MIBK)	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	< 0.819	< 0.819	< 0.819	< 0.819	< 0.819	< 0.819	<0.819	<0.819	<0.819	1.47	<0.819	<0.819
MTBE	< 0.721	< 0.721	< 0.721	< 0.721	**0.91**	< 0.721	<0.721	<0.721	**1.11**	<0.721	<0.721	<0.721
Naphthalene	< 3.30	< 3.30 J3	< 3.30	< 3.30	< 3.30	< 3.30	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30
2-Propanol	< 3.07	< 3.07	**96.8**	< 3.07	< 3.07	< 3.07	**4.62 J**	**34.2 J**	**10.6 J**	**5.10 J**	<3.07	**12.0**
Propene	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.851	< 0.851	**2.57**	< 0.851	< 0.851	< 0.851	<0.851	**1.39**	<0.851	<0.851	<0.851	**2.30**
1,1,2,2-Tetrachloroethane	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**17,900**	**1,810**	**691**	**1,230 M**	**1,010**	**222**	**71.4**	**69.3**	**158**	**163**	**554**	**483**
Tetrahydrofuran	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	**3.75**	**3.70**	**1.64 J**	**2.83 J**	<0.590	<0.590
Toluene	< 0.753	< 0.753	**5.35**	< 0.753	**1.02**	< 0.753	<0.753	**11.4**	<0.753	**3.29**	**1.72 J**	**21.0 J**
1,2,4-Trichlorobenzene	< 4.66	< 4.66 J3	< 4.66	< 4.66	< 4.66	< 4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	< 1.07	**7.15**	**1.9**	< 1.07	< 1.07	< 1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	< 0.982	< 0.982	**5.12**	< 0.982	< 0.982	< 0.982	**1.06**	**1.29**	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	< 0.982	< 0.982	**1.38**	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	< 0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	< 1.73	< 1.73	**9.13**	< 1.73	< 1.73	< 1.73	<1.73	**4.98**	<1.73	<1.73	<1.73	**14.1**
o-Xylene	< 0.867	< 0.867	**3.58**	< 0.867	< 0.867	< 0.867	<0.867	**1.89**	<0.867	<0.867	<0.867	**3.75**
TPHg	**6,230**	**1,030**	**693**	**1,590**	**1,190**	< 207	<207	**317**	**401 J**	**248 J**	**562**	**703**

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D	VP-D DUP	VP-D
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	11/20/2017	11/20/2017	2/8/2018	2/8/2018	5/21/2018	5/21/2018	8/3/2018	8/3/2018	11/19/2018	3/18/2019	3/18/2019	5/13/2019
Acetone	<2.97	<2.97	**53.8 J**	**33.3 J**	**294 J**	<2.97	<2.97	**3.94**	**6.86**	<2.97	**3.61**	**7.6 M**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.3
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	0.91
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<3.8
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<2
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<7.7
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<1.2
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.66
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	0.637	<0.622	<0.622	<0.92
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.9
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.78
Chloroform	**4.03**	**4.09**	<0.973	**1.09**	<0.973	<0.973	**24.4**	**23.6**	3.11	**4.34**	**4.03**	**2.0**
Chloromethane	<0.413	<0.413	<0.413	<0.413	0.636	<0.413	<0.413	<0.413	0.787	<0.413	<0.413	<0.61
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	--
Cyclohexane	**2.43**	**2.40**	**0.833**	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<2.6
Dibromochloromethane	<1.7	<1.7	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<2.5
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.1
1,2-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.8
1,3-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.8
1,4-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<4.5
1,2-Dichloroethane	<0.81	<0.81	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.6
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<1.2
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3
Ethanol	<1.19	**1.58**	**7.20 J**	**2.33 J**	**6.35 J**	**1.83 J**	<1.19	**3.45**	**9.57**	**3.08**	**3.42**	**4.3 M**
Ethylbenzene	<0.867	<0.867	**2.68 J**	**1.57 J**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<1.3
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	3.04	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<3.6
Trichlorofluoromethane	**1.21**	**1.20**	**1.22**	**1.51**	**1.24**	**1.20**	**1.62**	**1.59**	**1.34**	**1.39**	**1.28**	<1.7
Dichlorodifluoromethane	**1.25**	**1.22**	**1.45**	**1.28**	**1.28**	**1.33**	**1.74**	**1.76**	**1.88**	**1.39 M**	**2.30 M**	**2.0**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<2.3
1,2-Dichlorotetrafluoroethane	<1.4	<1.4	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<2.1
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<1.2
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<7.9
n-Hexane	<0.705	<0.705	**2.31 J**	**1.17 J**	<0.705	<0.705	<0.705	<0.705	<0.705	**1.10**	**1.39**	<1
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<3.6
Methylene Chloride	**0.725**	<0.694	<0.694	<0.694	<0.694	**0.856**	<0.694	<0.694	<0.694	**3.92**	**4.87**	<5.2
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<6.1
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	50.3	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<4.4
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<6.1
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<1.2
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3
Naphthalene	<3.3	<3.3	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.9
2-Propanol	<3.07	<3.07	**41.6**	**34.9**	**5.24**	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.6
Propene	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.51
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<1.3
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1
Tetrachloroethylene	**325**	**323**	**195 J**	**298 J**	**247**	**235**	**449**	**438**	**89.2**	**252 M**	**170 M**	**107**
Tetrahydrofuran	<0.59	<0.59	**4.48 J**	**2.53 J**	**0.601 J**	**1.08 J**	<0.590	<0.590	<0.590	<0.590	<0.590	<0.88
Toluene	<0.753	<0.753	**15.4 J**	**1.27 J**	**2.74 J**	**1.09 J**	<0.753	<0.753	<0.753	<0.753	**0.904**	**7.7**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<11
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.6
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.81
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**1.30**	<1.07	**9.8**
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	7.17	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**4.4 M**
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	2.17	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<1.5
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<3.5
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.38
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<1.3
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1
m&p-Xylene	<1.73	<1.73	**10.9 J**	**6.18 J**	**2.36**	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	**9.6 M**
o-Xylene	<0.867	<0.867	**3.29 J**	**1.96 J**	**1.51**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	**3.2 M**
TPHg	**423**	**364**	**369 J+**	**481**	**418 J+**	**244 J+**	**410**	**411**	<207	**270 J+**	<207	<152

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D	VP-D DUP	VP-D
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5	5
Date	5/13/2019	8/19/2019	8/19/2019	11/4/2019	11/4/2019	2/24/2020	2/24/2020	11/4/2020	11/4/2020	8/31/2021	1/26/2022	1/26/2022	7/18/2022
Acetone	**279 M**	**7.51 M**	**23.8 M**	<2.97	<2.97	<2.97	<2.97	**4.90**	**6.58**	<2.97	**3.83**	**4.75**	<2.97
Allyl Chloride	<2.4	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	<0.48	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	0.763	<0.639
Benzyl Chloride	<3.9	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	<2	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	<7.8	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	<1.2	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	<0.67	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	<0.94	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	<1.9	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	<1.4	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	<0.8	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	**1.8**	<0.973	<0.973	**18.0**	**17.5**	**1.34**	**1.23**	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	<0.63	**1.11 M**	**3.52 M**	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	1.22	<0.413
2-Chlorotoluene	--	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	<2.6	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	<2.6	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.2	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.8	<1.20	<1.20	<1.20	<1.20	**1.77**	**1.36**	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	<4.6	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.61	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	<1.2	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	<1.4	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	<1.4	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<1.4	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	<5.5	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	0.973	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**82.0 M**	**4.00 M**	**19.8 M**	<1.19	<1.19	**3.43**	**4.37**	**11.40**	**8.45**	<2.36	**13.4 M**	**6.49 M**	**3.09 M**
Ethylbenzene	**17.2**	<0.867	<0.867	<0.867	<0.867	**1.33**	**0.954**	**1.27**	<0.867	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	**4.4**	<0.982	<0.982	<0.982	<0.982	**2.75**	**2.28**	**2.56**	**1.68**	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	<1.7	**1.23**	**1.39**	**1.14**	**1.20**	**1.55**	**1.61**	**1.55**	**1.57**	**1.62**	**1.34**	**1.33**	**1.70**
Dichlorodifluoromethane	**2.0**	**2.40**	**2.67**	**2.00**	**2.12**	<0.989	**2.82**	**2.93**	**2.45**	**2.70**	**2.43**	**2.59**	**2.33**
1,1,2-Trichlorotrifluoroethane	<2.3	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<2.1	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<1.2	<0.818	<0.818	<0.818	<0.818	**0.830**	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<8.1	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	**1.8**	**0.834**	<0.705	<0.705	<0.705	<0.705	<0.705	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22
Isopropylbenzene	**4.8**	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	**8.3**	**0.696 J+**	**0.744 J+**	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**2.33**	<0.694	<0.694
Methyl Butyl Ketone	<6.2	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	**60.5**	<3.69	<3.69	<3.69	<3.69	**3.92**	<3.69	**6.90**	**3.77**	<3.69	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<6.2	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	<1.2	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	<5.5	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	<4	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	**38.1**	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	**37.1**	<3.07	<3.07
Propene	<0.52	<0.689	**3.25**	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<2.15	<2.15	<2.15	<2.15
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	<0.982	<0.982	<0.982
Styrene	<1.3	<0.851	**2.12**	<0.851	<0.851	<0.851	<0.851	**1.02**	<0.851	<0.851	<0.851	<0.851	**2.22**
1,1,2,2-Tetrachloroethane	<1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**93.2**	<1.36	**2.41**	**19.9**	**18.7**	**9.91**	**5.95**	**102**	**116**	**66.3**	**19.0**	<1.36	**40.2**
Tetrahydrofuran	**7.3**	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590
Toluene	**6.6**	**1.23 M**	**2.54 M**	<0.753	<0.753	**6.52**	**4.14**	**4.90**	**2.02**	<1.88	**2.78 M**	**1.94 M**	<1.88
1,2,4-Trichlorobenzene	<11.2	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	<1.7	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	<0.83	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	<0.81	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**3.16**	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	**8.9 M**	<0.982	<0.982	<0.982	<0.982	**3.25**	**2.78**	**3.47**	**2.38**	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	**3.9**	<0.982	<0.982	<0.982	<0.982	**1.03**	<0.982	**1.14**	<0.982	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	<3.5	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	<0.39	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	<1.3	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	<1.1	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	**57.5 M**	<1.73	<1.73	<1.73	<1.73	**5.42**	**3.82**	**5.07**	**2.48**	<1.73	<1.73	<1.73	<1.73
o-Xylene	**17.0 M**	<0.867	<0.867	<0.867	<0.867	**2.10**	**1.57**	**2.27**	**1.17**	<0.867	<0.867	<0.867	<0.867
TPHg	**1,930**	<207	<207	<207	<207	<826	<826	<826	<826	<826	<826	<826	<826

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D	VP-D	VP-D
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5
Date	7/18/2022	8/18/2022	8/18/2022	1/18/2023	1/18/2023	4/3/2023	4/3/2023	8/22/2023	12/20/2023	7/23/2024	1/24/2025
Acetone	**3.21**	<2.97	<2.97	<2.97	<2.97	<2.97	**5.06**	<1.39	<2.97	**4.85**	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.228	<0.639	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21	<6.21	<6.52
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.381	<0.776	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.230	<4.43	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.317	<0.622	<1.24	<1.24
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973	<0.973	<0.973
Chloromethane	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.213	<0.413	<0.413	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03	<1.03	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689	<0.689	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<0.618	<1.7	**3.12**	**2.6**
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.770	<1.2	<1.20	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.09	<1.2	<1.20	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.335	<1.2	<1.20	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.283	<0.81	<0.810	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.290	<0.802	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.302	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.311	<0.793	**0.959**	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	**1.03**	<0.793	<0.793	<0.793	<0.793	<0.267	<0.793	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.351	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.313	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.331	<0.908	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.300	<2.27	<2.27	<2.27
Ethanol	**6.64 M**	<2.36	**3.94**	**8.58**	**7.73**	<4.71	**40.2**	<0.500	**5.30 J+**	**6.30**	<4.71
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.88**	**1.44**	**1.50**	**1.45**	**1.43**	**1.47**	**1.47**	**1.40**	**1.26**	**1.31**	**1.29**
Dichlorodifluoromethane	**2.38**	**2.78**	**2.72**	**2.57**	**2.51**	**2.60**	**2.51**	**2.26**	**1.88**	**3.12**	**2.6**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<0.608	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<0.622	<1.4	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.425	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<1.12	<6.73	<6.73	<6.73
n-Hexane	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	<0.726	<2.22	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983	<0.983	<0.983
Methylene Chloride	**1.22**	<0.694	<0.694	<0.694	**0.712**	<0.694	**2.06**	<0.340	<0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<0.544	<5.11	<5.11	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<0.240	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<0.313	<5.12	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.233	<0.721	<0.721	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<1.83	<3.3	<3.30	<3.30
2-Propanol	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	5.58	<0.649	<3.07	<3.07	<3.07
Propene	<2.15	<2.15	<2.15	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15	<2.15	<2.15
n-Propylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982	<0.982	<0.982
Styrene	<0.851	**1.39 M**	**3.65 M**	<0.851	<0.851	<0.851	<0.851	<0.335	<0.851	<1.70	<1.70
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<0.511	<1.37	<1.37	<1.37
Tetrachloroethylene	**43.7**	**58.5**	**52.5**	**60.2**	**58.7**	**55.4**	**49.0**	**105**	**51.7**	**55.3**	**50.7**
Tetrahydrofuran	<0.590	<0.590	<0.590	<0.59	<0.59	<0.590	<0.590	<0.216	<0.59	<0.590	<0.590
Toluene	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<0.328	<1.88	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<1.10	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.400	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.422	<1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<0.364	<1.07	**118**	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.382	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.621	<0.934	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<0.704 UJ	<0.408	<2.22	<2.22	<2.22
m&p-Xylene	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585	<1.73	<1.73	<1.73
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867	<0.867	<0.867
TPHg	<826	<826	<826	<826	<826	<826	<826	<164	<826	<826	<826

See notes at end of table.

Table B-3
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Notes:

1. Results in µg/m^3 = Micrograms per cubic meter.
2. Bold values indicate concentration detected above the minimum reporting limit.
3. VOCs = Volatile organic compounds.
4. M = The relative percent difference between the primary and duplicate sample are above the quality control limit of 30%.
5. J+ = Data results are estimated values and may be biased high.
6. UJ = The not detected result is estimated at the reporting limit.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-E	VP-H	VP-I	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	8/13/2013	8/13/2013	8/13/2013	5/12/2014	7/16/2014	9/15/2014	11/11/2014	3/16/2015	6/16/2015	9/14/2015	12/14/2015	3/7/2016
Acetone	**140**	**190**	**810**	< 3.0	**24**	**95**	**14**	**5.7**	**5.0**	**6.70**	**3.16**	**24.60**
Allyl Chloride	< 0.63	< 0.63	< 0.63	< 0.63	< 2.5	< 0.63	< 0.63	< 0.63	< 0.63	< 0.626	< 0.626	< 0.626
Benzene	< 0.64	**1.4**	**0.70**	< 0.64	< 2.6	**3.1**	< 0.64	**0.67**	< 0.64	< 0.639	< 0.639	**3.1**
Benzyl Chloride	< 1.0	< 1.0	< 1.0	< 1.0	< 4.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.04	< 1.04	< 1.04
Bromodichloromethane	< 1.3	< 1.3	< 1.3	< 1.3	< 5.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.34	< 1.34	< 1.34
Bromoform	< 6.2	< 6.2	< 6.2	< 6.2	< 25	< 6.2	< 6.2	< 6.2	< 6.2	< 6.21	< 6.21	< 6.21
Bromomethane	< 0.78	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 0.78	< 0.776	< 0.776	< 0.776
1,3-Butadiene	< 4.4	< 4.4	< 4.4	< 4.4	< 18	< 4.4	< 4.4	< 4.4	< 4.4	< 4.43	< 4.43	< 4.43
Carbon Disulfide	< 0.62	< 0.62	< 0.62	< 0.62	< 2.5	**1.9**	**2.1**	< 0.62	< 0.62	< 0.622	< 0.622	< 0.622
Carbon Tetrachloride	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	**1.6**	< 1.3	< 1.3	< 1.26	< 1.26	< 1.26
Chlorobenzene	< 0.92	< 0.92	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92	< 0.92	< 0.92	< 0.924	< 0.924	< 0.924
Chloroethane	< 0.53	< 0.53	< 0.53	< 0.53	< 2.1	< 0.53	< 0.53	< 0.53	< 0.53	< 0.528	< 0.528	< 0.528
Chloroform	< 0.97	< 0.97	< 0.97	< 0.97	< 3.9	**1.5**	< 0.97	< 0.97	< 0.97	< 0.973	< 0.973	< 0.973
Chloromethane	< 0.41	< 0.41	< 0.41	< 0.41	< 1.7	**0.60**	< 0.41	< 0.41	< 0.41	< 0.413	**1.10**	**1.37**
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0	< 4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.03	< 1.03	< 1.03
Cyclohexane	< 0.69	< 0.69	< 0.69	< 0.69	< 2.8	**4.1**	< 0.69	**0.93**	< 0.69	< 0.689	< 0.689	**3.04**
Dibromochloromethane	< 1.7	< 1.7	< 1.7	< 1.7	< 6.8	< 1.7	< 1.7	< 1.7	< 1.7	< 1.70	< 1.70	< 1.70
1,2-Dibromoethane	< 1.5	< 1.5	< 1.5	< 1.5	< 6.2	< 1.5	< 1.5	< 1.5	< 1.5	< 1.54	< 1.54	< 1.54
1,2-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20	< 1.20
1,3-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20	**5.04**
1,4-Dichlorobenzene	< 1.2	< 1.2	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20	< 1.20
1,2-Dichloroethane	< 0.81	< 0.81	< 0.81	< 0.81	< 3.2	**2.4**	< 0.81	< 0.81	< 0.81	< 0.810	< 0.810	< 0.810
1,1-Dichloroethane	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80	< 0.80	< 0.802	< 0.802	< 0.802
1,1-Dichloroethene	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793	< 0.793
cis-1,2-Dichloroethene	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793	< 0.793
trans-1,2-Dichloroethene	< 0.79	< 0.79	< 0.79	**3.1**	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793	< 0.793
1,2-Dichloropropane	< 0.92	< 0.92	< 0.92	< 0.92	< 3.7	**28**	< 0.92	< 0.92	< 0.92	< 0.924	< 0.924	< 0.924
cis-1,3-Dichloropropene	< 0.91	< 0.91	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.91	< 0.908	< 0.908	< 0.908
trans-1,3-Dichloropropene	< 0.91	< 0.91	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.91	< 0.908	< 0.908	< 0.908
1,4-Dioxane	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.721	< 0.721	< 0.721
Ethanol	**17**	**8.3**	**11**	**2.5**	< 4.8	**66**	**1.8**	**14 M**	**1.4**	**204**	**5.09**	**45.8**
Ethylbenzene	< 0.87	**1.3**	**4.1**	< 0.87	< 3.5	**6.5**	< 0.87	**1.1**	< 0.87	**0.986**	< 0.867	**5.52**
4-Ethyltoluene	< 0.98	< 0.98	< 0.98	< 0.98	**4.9**	**1.7**	< 0.98	**1.1**	< 0.98	< 0.982	< 0.982	**5.84**
Trichlorofluoromethane	**1.6**	< 1.1	**2.9**	**2.9**	< 4.5	**2.7**	**4.2**	**2.7**	**2.1**	**2.15**	**1.45**	**1.25**
Dichlorodifluoromethane	**2.7**	**1.8**	**5.4**	**2.6**	**4.9**	**2.0**	**3.8**	**3.2**	< 0.99	**2.16**	**1.69**	**1.74**
1,1,2-Trichlorotrifluoroethane	< 1.5	< 1.5	< 1.5	< 1.5	< 6.1	< 1.5	< 1.5	< 1.5	< 1.5	< 1.53	< 1.53	< 1.53
1,2-Dichlorotetrafluoroethane	< 1.4	< 1.4	< 1.4	< 1.4	< 5.6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.40	< 1.40	< 1.40
Heptane	< 0.82	**2.1**	**1.6**	< 0.82	< 3.3	**4.5**	< 0.82	**1.1**	< 0.82	< 0.818	< 0.818	**7.81**
Hexachloro-1,3-butadiene	< 6.7	< 6.7	< 6.7	< 6.7	< 27	< 6.7	< 6.7	< 6.7	< 6.7	< 6.73	< 6.73	< 6.73
n-Hexane	< 0.71	**7.4**	**2.4**	< 0.71	< 2.8	**5.6**	< 0.71	**1.5**	< 0.71	0.837	< 0.705	**9.70**
Isopropylbenzene	< 0.98	< 0.98	< 0.98	< 0.98	< 3.9	**13**	< 0.98	< 0.98	**1.8**	< 0.983	< 0.983	< 0.983
Methylene Chloride	**2.4**	**1.8**	**5.2**	< 0.69	**3.0**	**2.2**	< 0.69	< 0.69	**1.9**	< 0.694	< 0.694	< 0.694
Methyl Butyl Ketone	**5.3**	< 5.1	< 5.1	< 5.1	< 20	< 5.1	< 5.1	< 5.1	< 5.1	< 5.11	< 5.11	< 5.11
2-Butanone (MEK)	**16**	< 3.7	**8.6**	< 3.7	< 15	**23**	< 3.7	**4.1**	< 3.7	< 3.69	< 3.69	**3.88**
4-Methyl-2-pentanone (MIBK)	**9.4**	< 5.1	**7.0**	< 5.1	< 20	**6.6**	< 5.1	< 5.1	< 5.1	< 5.12	< 5.12	< 5.12
Methyl methacrylate	< 0.82	< 0.82	< 0.82	< 0.82	< 3.3	**1.9**	< 0.82	< 0.82	< 0.82	< 0.819	< 0.819	< 0.819
MTBE	< 0.72	< 0.72	**0.72**	< 0.72	< 2.9	**7.2**	< 0.72	< 0.72	**1.7**	**1.21**	< 0.721	< 0.721
Naphthalene	< 3.3	< 3.3	< 3.3	< 3.3	< 13	< 3.3	< 3.3	< 3.3	< 3.3	< 3.30	< 3.30	< 3.30
2-Propanol	**3.2**	**3.2**	**5.4**	< 3.1	< 12	**61**	< 3.1	< 3.1	< 3.1	**6.06**	< 3.07	**16.2**
Propene	< 0.69	< 0.69	**2.6**	< 0.69	< 2.8	< 0.69	< 0.69	< 0.69	< 0.69	< 0.689	< 0.689	**0.902**
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.85	< 0.85	**1.2**	< 0.85	< 3.4	**4.7**	< 0.85	< 0.85	< 0.85	< 0.851	< 0.851	**2.55**
1,1,2,2-Tetrachloroethane	< 1.4	< 1.4	< 1.4	< 1.4	< 5.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.37	< 1.37	< 1.37
Tetrachloroethylene	**6,000**	**1,400**	**5,800**	**3,400**	**4,100**	**7,500**	**5,400**	**1,900**	**3,000**	**5,050**	**1.70**	**23.0**
Tetrahydrofuran	**1.1**	< 0.59	< 0.59	< 0.59	< 2.4	**2.0**	< 0.59	**1.6**	< 0.59	< 0.590	< 0.590	**2.12**
Toluene	**1.2**	**9.8**	**9.0**	**2.3**	**8.7**	**250**	< 0.75	**5.3**	< 0.75	**2.97**	**1.49**	**5.2**
1,2,4-Trichlorobenzene	< 4.7	< 4.7	< 4.7	< 4.7	< 19	< 4.7	< 4.7	< 4.7	< 4.7	< 4.66	< 4.66	< 4.66
1,1,1-Trichloroethane	< 1.1	< 1.1	**2.6**	< 1.1	< 4.4	< 1.1	**1.3**	< 1.1	< 1.1	< 1.09	< 1.09	< 1.09
1,1,2-Trichloroethane	< 1.1	< 1.1	< 1.1	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.1	< 1.09	< 1.09	< 1.09
Trichloroethylene	**1.1**	< 1.1	< 1.1	< 1.1	< 4.3	**1.3**	**2.5**	< 1.1	< 1.1	< 1.07	< 1.07	< 1.07
1,2,4-Trimethylbenzene	**1.0**	**1.0**	**2.2**	**1.5**	**15**	**4.8**	< 0.98	**3.9**	< 0.98	**3.09**	< 0.982	**5.94**
1,3,5-Trimethylbenzene	< 0.98	< 0.98	< 0.98	< 0.98	**5.4**	**1.8**	< 0.98	**1.1**	< 0.98	< 0.982	< 0.982	**1.83**
2,2,4-Trimethylpentane	< 0.93	< 0.93	**0.98**	< 0.93	< 3.7	**1.4**	< 0.93	< 0.93	< 0.93	< 0.934	< 0.934	**18.7**
Vinyl Chloride	< 0.51	< 0.51	< 0.51	< 0.51	< 2.0	< 0.51	< 0.51	< 0.51	< 0.51	< 0.511	< 0.511	< 0.511
Vinyl Bromide	< 0.87	< 0.87	< 0.87	< 0.87	< 3.5	< 0.87	< 0.87	< 0.87	< 0.87	< 0.875	< 0.875	< 0.875
Vinyl Acetate	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 0.704	< 0.704	< 0.704
m&p-Xylene	< 1.7	**5.2**	**15**	**1.8**	< 6.9	**14**	< 1.7	**8.7**	< 1.7	**5.09**	< 1.73	**18.8**
o-Xylene	< 0.87	**2.3**	**6.1**	**1.1**	< 3.5	**5.6**	< 0.87	**3.3**	< 0.87	**2.33**	< 0.867	**6.65**
TPHg	**2,500**	**1,400**	**2,400**	**1,400**	**4,100**	**2,700**	**1,500**	**910**	**3,500**	**3,800**	< 207	**570**

See notes at end of table.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	6/9/2016	9/12/2016	12/12/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019
Acetone	**7.58**	< 2.97	**16.5**	**4.19**	**4.21**	<2.97	**54.0**	**39.9**	<2.97	**3.02**	<2.97	<2.97
Allyl Chloride	< 0.626	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	**1.12**	< 0.639	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	< 1.04	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	< 1.34	< 1.34	< 1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	< 6.21	< 6.21	< 6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	< 0.776	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	< 4.43	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	< 0.622	< 0.622	< 0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	< 1.26	< 1.26	< 1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	< 0.528	< 0.528	< 0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	< 0.973	< 0.973	< 0.973	**1.05**	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	**1.20**	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413
2-Chlorotoluene	< 1.03	< 1.03	< 1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	< 0.689	< 0.689	< 0.689	<0.689	**0.968**	<0.689	**2.33**	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	< 1.70	< 1.70	< 1.70	<1.7	<1.70	<1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	< 1.54	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	< 0.810	< 0.810	< 0.810	<0.81	<0.810	<0.810	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	< 0.802	< 0.802	< 0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	< 0.793	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	< 0.721	< 0.721	**1.62**	<0.721	<0.721	<0.721	**10.2**	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**20.9**	**6.6**	**3.10**	**1.55**	**8.12**	<1.19	**10.8**	**5.09**	<1.19	**4.37**	**1.53**	**4.66**
Ethylbenzene	< 0.867	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.27**	**1.96**	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.58**	**1.52**	**1.57**	**1.45**	**1.83**	**1.65**	**1.38**	**1.68**	**1.46**	**1.63**	**1.72**	**1.38**
Dichlorodifluoromethane	**1.83**	**1.53**	**2.17**	**1.67**	**1.40**	**1.21**	**1.15**	**1.32**	**1.24**	**1.72**	**1.76**	**1.28**
1,1,2-Trichlorotrifluoroethane	< 1.53	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	< 1.40	< 1.40	< 1.40	<1.4	<1.40	<1.40	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40
Heptane	< 0.818	< 0.818	< 0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	< 6.73	< 6.73	< 6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	**0.94**	< 0.705	< 0.705	<0.705	<0.705	<0.705	<0.705	**1.61**	<0.705	<0.705	<0.705	<0.705
Isopropylbenzene	< 0.983	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	**0.75**	< 0.694	< 0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**2.33**	<0.694	<0.694
Methyl Butyl Ketone	< 5.11	< 5.11	< 5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	< 3.69	< 3.69	**4.30**	<3.69	<3.69	<3.69	**10.5**	<3.69	<3.69	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	< 5.12	< 5.12	< 5.12	<5.12	<5.12	<5.12	**17.7**	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	< 0.819	< 0.819	< 0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	**0.771**	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	< 3.30	< 3.30	< 3.30	<3.3	<3.30	<3.30	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30
2-Propanol	< 3.07	< 3.07	**6.62**	<3.07	<3.07	<3.07	<3.07	**38.6**	<3.07	<3.07	<3.07	<3.07
Propene	**1.17**	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.851	< 0.851	< 0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851
1,1,2,2-Tetrachloroethane	< 1.37	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**229 M**	**2520**	**1760**	**809**	**1,180**	**1,230**	**1,210**	**558**	**832**	**849**	**1170**	**638**
Tetrahydrofuran	< 0.590	< 0.590	**0.993**	<0.59	<0.590	<0.590	**2.48**	**3.19**	<0.590	<0.590	<0.590	**0.640**
Toluene	**2.56**	< 0.753	< 0.753	<0.753	<0.753	<0.753	<0.753	**1.40**	<0.753	<0.753	<0.753	<0.753
1,2,4-Trichlorobenzene	< 4.66	< 4.66	< 4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	< 1.07	< 1.07	< 1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	< 0.982	< 0.982	**2.24**	<0.982	<0.982	<0.982	**3.49**	<0.982	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	< 0.982	< 0.982	**1.05**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	< 0.934	< 0.934	< 0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	< 0.511	< 0.511	< 0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	< 0.875	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	< 0.704	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	< 1.73	< 1.73	< 1.73	<1.73	<1.73	<1.73	**8.89**	**7.83**	<1.73	<1.73	<1.73	<1.73
o-Xylene	< 0.867	< 0.867	< 0.867	<0.867	<0.867	<0.867	**4.01**	**2.38**	<0.867	<0.867	<0.867	<0.867
TPHg	< 207	**1,090**	**921**	**732**	**877**	**724**	**794**	**643**	**712**	**799**	**767**	**884**

See notes at end of table.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C	VP-C
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/4/2020	8/31/2021	1/26/2022	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023
Acetone	**7.2**	**4.13**	<2.97	<2.97	<2.97	**3.87**	**6.15**	**3.97**	**6.89**	**6.91**	**7.72**	**9.98**
Allyl Chloride	<2.5	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.357
Benzene	<0.5	<0.639	<0.639	<0.639	<0.639	<0.639	**0.923**	**0.648**	<0.639	**0.984**	**0.731**	<0.228
Benzyl Chloride	<4.1	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<0.311
Bromodichloromethane	<2.1	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.471
Bromoform	<8.1	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<0.757
Bromomethane	<1.2	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.381
1,3-Butadiene	<0.7	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.230
Carbon Disulfide	<0.98	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.317
Carbon Tetrachloride	<2	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.461
Chlorobenzene	<1.5	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.385
Chloroethane	<0.83	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	**1.31**	<0.528	<0.263
Chloroform	<0.77	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.349
Chloromethane	<0.65	<0.413	<0.413	<0.413	<0.413	**0.944**	**1.03**	**1.24**	**1.20**	<0.413	**1.20**	**1.17**
2-Chlorotoluene	--	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<0.427
Cyclohexane	<2.7	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.259
Dibromochloromethane	<2.7	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<0.618
1,2-Dibromoethane	<1.2	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<0.554
1,2-Dichlorobenzene	<1.9	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.770
1,3-Dichlorobenzene	<1.9	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.09
1,4-Dichlorobenzene	<4.7	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.335
1,2-Dichloroethane	<0.64	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.283
1,1-Dichloroethane	<1.3	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.290
1,1-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.302
cis-1,2-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.311
trans-1,2-Dichloroethene	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.267
1,2-Dichloropropane	<1.5	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.351
cis-1,3-Dichloropropene	<1.4	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.313
trans-1,3-Dichloropropene	<1.4	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.331
1,4-Dioxane	<5.7	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.300
Ethanol	<3	**1.37**	<1.19	<1.19	**2.30**	**3.09 J+**	<2.36	**3.77**	**6.15**	**3.56**	**26.8**	**5.81 J+**
Ethylbenzene	<1.4	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362
4-Ethyltoluene	<3.9	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.384
Trichlorofluoromethane	<1.8	**1.39**	**1.20**	**1.51**	**1.60**	**1.55**	**1.37**	**1.88**	**1.42**	**1.38**	**1.44**	**1.12**
Dichlorodifluoromethane	**1.9**	**2.58**	**1.82**	**2.66**	**2.22**	**2.36**	**2.61**	**2.57**	**2.69**	**2.63**	**2.50**	**2.16**
1,1,2-Trichlorotrifluoroethane	<2.4	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<0.608
1,2-Dichlorotetrafluoroethane	<2.2	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<0.622
Heptane	<1.3	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.425
Hexachloro-1,3-butadiene	<8.4	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<0.673	<6.73	<6.73	<1.12
n-Hexane	<1.1	<0.705	<0.705	<0.705	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	**2.69**	<0.726
Isopropylbenzene	<3.9	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.382
Methylene Chloride	<5.5	<0.694	<0.694	<0.694	<0.694	<0.694	**1.66**	<0.694	<0.694	**1.26**	**2.72**	<0.340
Methyl Butyl Ketone	<6.4	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<0.544
2-Butanone (MEK)	<4.6	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	**3.83**	<3.69	<3.69	<0.240
4-Methyl-2-pentanone (MIBK)	<6.4	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<0.313
Methyl methacrylate	<1.3	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.359
MTBE	<5.7	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.233
Naphthalene	<4.1	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<1.83
2-Propanol	<3.9	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	**3.79**	<0.649
Propene	<0.54	<0.689	<0.689	<0.689	<0.689	<2.15	**2.62 J+**	<2.15	<2.15	<2.15	<2.15	<0.160
n-Propylbenzene	--	--	--	--	--	--	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379
Styrene	<1.3	**1.80**	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	**2.00**	<0.851	<0.851	<0.335
1,1,2,2-Tetrachloroethane	<1.1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<0.511
Tetrachloroethylene	**602**	**532**	**202**	**137**	**337**	**111**	<1.36	**20.9**	<1.36	**17.7**	<1.36	<0.553
Tetrahydrofuran	<0.93	<0.590	0.858	<0.590	<0.590	<0.590	<0.590	<0.590	**11.3**	<0.59	<0.590	<0.216
Toluene	<1.2	<0.753	<0.753	<0.753	<1.88	<1.88	**2.28**	<1.88	**4.07**	**2.10**	<1.88	<0.328
1,2,4-Trichlorobenzene	<11.7	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<1.10
1,1,1-Trichloroethane	<1.7	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.400
1,1,2-Trichloroethane	<0.86	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.422
Trichloroethylene	<0.85	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**5.18**	<1.07	<0.364
1,2,4-Trimethylbenzene	<1.5	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.375
1,3,5-Trimethylbenzene	<1.5	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.382
2,2,4-Trimethylpentane	<3.7	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.621
Vinyl Chloride	<0.4	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.243
Vinyl Bromide	<1.4	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.373
Vinyl Acetate	<1.1	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<0.408
m&p-Xylene	<2.7	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585
o-Xylene	<1.4	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359
TPHg	**871**	**608 J+**	**208**	<826	<826	<826	<826	<826	<826	<826	<826	<164

See notes at end of table.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-C	VP-C	VP-J	VP-J DUP	VP-J	VP-J DUP	VP-J	VP-J DUP	VP-J	VP-J	VP-J	VP-J
Depth (ft bgs)	5	5	5	5	5	5	5	5	5.00	5.00	5.00	5
Date	12/20/2023	7/23/2024	11/4/2013	11/4/2013	4/3/2014[4]	4/3/2014	5/12/2014	5/12/2014	6/9/2016	9/16/2016	3/30/2017	9/29/2017
Acetone	<2.97	**5.42**	< 24	< 24	--	**130**	**3,600**	**3,800**	**24.4**	**7.97**	<2.97	<2.97
Allyl Chloride	<0.626	<0.626	< 5.0	< 5.0	--	< 3.1	< 50	< 50	< 0.626	< 0.626	<0.626	<0.626
Benzene	<0.639	<0.639	< 5.1	< 5.1	< 6.4	< 3.2	< 51	< 51	**13.30**	**0.901**	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	< 8.3	< 8.3	--	< 5.2	< 83	< 83	< 1.04	< 1.04	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	< 11	< 11	--	< 6.7	< 110	< 110	< 1.34	< 1.34	<1.34	<1.34
Bromoform	<6.21	<6.21	< 50	< 50	--	< 31	< 500	< 500	< 6.21	< 6.21	<6.21	<6.21
Bromomethane	<0.776	<0.776	< 6.2	< 6.2	--	< 3.9	< 62	< 62	< 0.776	< 0.776	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	< 35	< 35	--	< 22	< 350	< 350	< 4.43	< 4.43	<4.43	<4.43
Carbon Disulfide	<0.622	<1.24	**20**	**18**	--	< 3.1	**140**	**130**	< 0.622	< 0.622	**3.26**	<0.622
Carbon Tetrachloride	<1.26	<1.26	< 10	< 10	< 13	< 6.3	< 100	< 100	< 1.26	< 1.26	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	< 7.4	< 7.4	--	< 4.6	< 74	< 74	< 0.924	< 0.924	<0.924	<0.924
Chloroethane	<0.528	<0.528	< 4.2	< 4.2	< 11	< 2.6	< 42	< 42	< 0.528	< 0.528	<0.528	<0.528
Chloroform	<0.973	<0.973	**9.2**	**8.3**	< 9.7	< 4.9	< 78	< 78	< 0.973	< 0.973	<0.973	<0.973
Chloromethane	<0.413	<0.413	< 3.3	< 3.3	< 6.2	< 2.1	< 33	< 33	< 0.413	< 0.413	<0.413	<0.413
2-Chlorotoluene	<1.03	<1.03	< 8.2	< 8.2	--	< 5.2	< 82	< 82	**2.51**	**1.98**	<1.03	<1.03
Cyclohexane	<0.689	<0.689	< 5.5	< 5.5	--	< 3.4	< 55	< 55	**16**	**0.881**	<0.689	<0.689
Dibromochloromethane	<1.7	<1.70	< 14	< 14	--	< 8.5	< 140	< 140	< 1.70	< 1.70	<1.7	<1.70
1,2-Dibromoethane	<1.54	<1.54	< 12	< 12	< 15	< 7.7	< 120	< 120	< 1.54	< 1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.2	<1.20	< 9.6	< 9.6	--	< 6.0	< 96	< 96	< 1.20	< 1.20	<1.2	<1.20
1,3-Dichlorobenzene	<1.2	<1.20	< 9.6	< 9.6	--	< 6.0	< 96	< 96	**70.7**	< 1.20	<1.2	<1.20
1,4-Dichlorobenzene	<1.2	<1.20	< 9.6	< 9.6	< 12	< 6.0	< 96	< 96	< 1.20	< 1.20	<1.2	<1.20
1,2-Dichloroethane	<0.81	<0.810	< 6.5	< 6.5	--	< 4.0	< 65	< 65	< 0.810	< 0.810	<0.81	<0.810
1,1-Dichloroethane	<0.802	<0.802	< 6.4	< 6.4	< 8.0	< 4.0	< 64	< 64	< 0.802	< 0.802	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	< 6.3	< 6.3	< 7.9	< 4.0	< 63	< 63	< 0.793	< 0.793	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	< 6.3	< 6.3	< 7.9	< 4.0	< 63	< 63	< 0.793	< 0.793	<0.793	<0.793
trans-1,2-Dichloroethene	**1.72**	<0.793	< 6.3	< 6.3	< 7.9	< 4.0	< 63	< 63	< 0.793	< 0.793	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	< 7.4	< 7.4	< 14	< 4.6	< 74	< 74	< 0.924	< 0.924	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	< 7.3	< 7.3	< 9.1	< 4.5	< 73	< 73	< 0.908	< 0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	< 7.3	< 7.3	< 14	< 4.5	< 73	< 73	< 0.908	< 0.908	<0.908	<0.908
1,4-Dioxane	<2.27	<2.27	< 5.8	< 5.8	--	< 3.6	< 58	< 58	< 0.721	< 0.721	<0.721	<0.721
Ethanol	<4.71	<4.71	**11**	< 9.5	--	**120**	**1,500**	**1,700**	**39.8**	**24.9**	**3.87**	<1.19
Ethylbenzene	<0.867	<0.867	< 6.9	< 6.9	**22**	< 4.3	< 69	< 69	**6.18**	**1.47**	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	< 7.9	< 7.9	--	< 4.9	< 79	< 79	**8.27**	< 0.982	<0.982	<0.982
Trichlorofluoromethane	**1.55**	**1.29**	< 9.0	< 9.0	--	< 5.6	< 90	< 90	**1.49**	**1.30**	**1.52**	**1.30**
Dichlorodifluoromethane	**1.51**	**1.93**	< 7.9	< 7.9	--	< 4.9	< 79	< 79	**1.7**	**2.29**	**1.81**	**1.88**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	< 12	< 12	--	< 7.7	< 120	< 120	< 1.53	< 1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.4	<1.40	< 11	< 11	--	< 7.0	< 110	< 110	< 1.40	< 1.40	<1.4	<1.40
Heptane	<0.818	<0.818	< 6.5	< 6.5	--	< 4.1	< 65	< 65	**12.5**	**1.02**	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	< 54	< 54	--	< 34	< 540	< 540	< 6.73	< 6.73	<6.73	<6.73
n-Hexane	<2.22	<2.22	< 5.6	< 5.6	--	< 3.5	**530 M**	**3,400M**	**64.7**	**3.12**	<0.705	<0.705
Isopropylbenzene	<0.983	<0.983	< 7.9	< 7.9	--	< 4.9	< 79	< 79	< 0.983	< 0.983	<0.983	<0.983
Methylene Chloride	<0.694	<0.694	< 5.6	< 5.6	--	< 3.5	**59**	**73**	< 0.694	< 0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	< 41	< 41	--	< 26	< 410	< 410	**6.11**	< 5.11	<5.11	<5.11
2-Butanone (MEK)	<3.69	<3.69	< 29	< 29	--	**97**	**350**	**350**	**27.7**	< 3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	< 41	< 41	--	**57**	< 410	< 410	< 5.12	< 5.12	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	< 6.6	< 6.6	--	< 4.1	**70**	**82**	< 0.819	< 0.819	<0.819	<0.819
MTBE	<0.721	<0.721	< 5.8	< 5.8	--	< 3.6	< 58	< 58	< 0.721	< 0.721	<0.721	<0.721
Naphthalene	<3.3	<3.30	< 26	< 26	--	< 16	< 260	< 260	< 3.30	< 3.30	<3.3	<3.30
2-Propanol	<3.07	<3.07	< 25	< 25	--	**88**	< 250	< 250	**40.1**	**8.82**	<3.07	<3.07
Propene	<2.15	<2.15	**13**	**14**	--	< 3.4	< 55	< 55	**0.975**	< 0.689	<0.689	<0.689
n-Propylbenzene	<0.982	<0.982	--	--	--	--	--	--	--	--	--	--
Styrene	<0.851	<1.70	< 6.8	< 6.8	--	< 4.3	< 68	< 68	< 0.851	**1.15**	<0.851	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	< 11	< 11	< 14	< 6.9	< 110	< 110	< 1.37	< 1.37	<1.37	<1.37
Tetrachloroethylene	**221**	**197**	**81,000**	**67,000**	**1,100**	**1,900**	**120,000**	**140,000**	**9.85 M**	**36.9**	**12.6**	**32.0**
Tetrahydrofuran	<0.59	<0.590	< 4.7	< 4.7	--	**32**	< 47	< 47	**17**	**1.57**	<0.59	<0.590
Toluene	**3.30**	<1.88	< 6.0	< 6.0	--	**14**	**900**	**1,100**	**23.7**	**5.08**	<0.753	<0.753
1,2,4-Trichlorobenzene	<4.66	<4.66	< 37	< 37	--	< 23	< 370	< 370	< 4.66	< 4.66	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	< 8.7	< 8.7	< 11	< 5.4	< 87	< 87	< 1.09	< 1.09	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	< 8.7	< 8.7	< 16	< 5.4	< 87	< 87	< 1.09	< 1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	**110**	**110**	**12**	**5.9**	**96**	**91**	< 1.07	< 1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	< 7.9	< 7.9	--	**9.8**	< 79	< 79	**9.05**	**1.59**	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	< 7.9	< 7.9	--	< 4.9	< 79	< 79	**2.87**	< 0.982	<0.982	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	< 7.5	< 7.5	--	< 4.7	< 75	< 75	**29.1**	< 0.934	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	< 4.1	< 4.1	< 5.1	< 2.6	< 41	< 41	< 0.511	< 0.511	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	< 7.0	< 7.0	--	< 4.4	< 70	< 70	< 0.875	< 0.875	<0.875	<0.875
Vinyl Acetate	<2.22	<2.22	< 5.6	< 5.6	< 7.0	< 3.5	< 56	< 56	< 0.704	< 0.704	<0.704	<0.704
m&p-Xylene	<1.73	<1.73	< 14	< 14	--	**12**	< 140	< 140	**23.4**	**5.09**	<1.73	<1.73
o-Xylene	<0.867	<0.867	< 6.9	< 6.9	--	**4.8**	< 69	< 69	**7.81**	**1.71**	<0.867	<0.867
TPHg	<826	<826	**15,000**	**15,000**	--	**1,700**	**74,000**	**74,000**	**1,040**	**208**	**475**	**257**

See notes at end of table.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/19/2019	5/13/2019	8/19/2019	11/4/2019	2/25/2020	11/4/2020	8/31/2021
Acetone	**22.8**	**43.2**	<2.97	<2.97	<2.97	<2.97	**95.6**	<2.97	<2.97	**5.32**	**6.46**	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.3	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.47	<0.639	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<3.8	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<2	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<7.6	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<1.1	<0.776	<0.776	<0.776	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.65	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	**1.66**	<0.622	<0.622	<0.91	<0.622	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	**4.4**	<1.26	<1.8	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.3	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.77	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.71	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.6	<0.413	<0.413	<0.413	<0.413	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	--	<1.03	<1.03	<1.03	<1.03	<1.03
Cyclohexane	**2.41**	<0.689	<0.689	<0.689	<0.689	<0.689	<2.5	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<2.5	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.1	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<4.4	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810	<0.59	<0.810	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<1.2	<0.802	<0.802	<0.802	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	**1.46**	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4	<0.924	<0.924	<0.924	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**2.12**	**2.27**	**3.93**	<1.19	**3.16**	**2.43**	**20.3**	<1.19	**3.62**	**4.30**	**3.81**	<2.36
Ethylbenzene	<0.867	**1.90**	<0.867	<0.867	<0.867	<0.867	<1.3	<0.867	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<3.6	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.17**	**1.58**	**1.29**	**1.44**	**6.66**	**1.25**	<1.6	**1.33**	**1.19**	**1.51**	**1.58**	**1.58**
Dichlorodifluoromethane	**1.45**	**1.35**	**1.48**	**1.94**	**13.2**	**1.36**	**2.1**	**2.56**	**2.04**	<0.989	**2.66**	**2.83**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<2.2	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40	<2	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<1.2	<0.818	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<7.8	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	<0.705	**1.88**	<0.705	<0.705	<0.705	<0.705	<1	<0.705	**1.04**	<0.705	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<3.6	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	<0.694	<0.694	**1.17**	<0.694	**0.77**	<0.694	**9.2**	<0.694	**0.92**	<0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<6	<5.11	<5.11	<5.11	<5.11	<5.11
2-Butanone (MEK)	**5.70**	<3.69	<3.69	<3.69	<3.69	<3.69	**18.2**	<3.69	<3.69	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<6	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<1.2	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30	<3.8	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	<3.07	**39.7**	<3.07	<3.07	<3.07	<3.07	**6.7**	<3.07	<3.07	<3.07	<3.07	<3.07
Propene	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.5	<0.689	<0.689	<0.689	<0.689	<2.15
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<1.2	**0.974**	<0.851	<0.851	<0.851	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**3.09**	**8.16**	**6.52**	**67.8**	**3,910**	**19.1**	**23.6**	**31.1**	**23.0**	**4.58**	**330**	**25.5**
Tetrahydrofuran	<0.59	**3.04**	<0.590	**1.44**	<0.590	**1.34**	**1.5**	<0.590	<0.590	<0.590	<0.590	<0.590
Toluene	<0.753	**1.92**	<0.753	<0.753	<0.753	<0.753	**1.5**	<0.753	<0.753	<0.753	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<10.9	<4.66	<4.66	<4.66	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	**1.92**	<1.09	<1.6	<1.09	<1.09	<1.09	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.8	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	**4.09**	<1.07	<0.79	<1.07	<1.07	<1.07	<1.07	**1.25**
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<1.4	<0.982	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<1.4	<0.982	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<3.4	<0.934	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.37	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<1.3	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1	<0.704	<0.704	<0.704	<0.704	<0.704
m&p-Xylene	<1.73	**6.97**	<1.73	<1.73	<1.73	<1.73	<2.5	<1.73	<1.73	<1.73	<1.73	<1.73
o-Xylene	<0.867	**2.55**	<0.867	<0.867	<0.867	<0.867	<1.3	<0.867	<0.867	<0.867	<0.867	<0.867
TPHg	**312**	**4,480**	<207	<207	**1,600**	<207	**1,130**	<207	<207	<826	<826	<826

See notes at end of table.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J
Depth (ft bgs)	5	5	5	5	5	5	5	10	10	10	15	15
Date	1/26/2022	7/18/2022	8/18/2022	1/18/2023	4/3/2023	12/20/2023	7/23/2024	11/4/2013	4/3/2014[4]	5/12/2014	6/9/2016	9/16/2016
Acetone	<2.97	**4.51**	<2.97	<2.97	**3.33**	<2.97	**18.5**	< 59	--	**10,000**	**8.77**	**15.4**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	< 13	--	< 50	< 0.626	< 0.626
Benzene	<0.639	<0.639	<0.639	**0.668**	<0.639	<0.639	<0.639	< 13	< 26	< 51	**2.42**	**1.16**
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	< 21	--	< 83	< 1.04	< 1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	< 27	--	< 110	< 1.34	< 1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	< 120	--	< 500	< 6.21	< 6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	< 16	--	< 62	< 0.776	< 0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	< 89	--	< 350	< 4.43	< 4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<1.24	< 12	--	**160**	< 0.622	< 0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	< 25	< 50	< 100	< 1.26	< 1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	< 18	--	< 74	< 0.924	< 0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	< 11	< 42	< 42	< 0.528	< 0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	< 19	< 39	< 78	< 0.973	**17.8**
Chloromethane	<0.413	<0.413	<0.413	**0.698**	<0.413	<0.413	<0.413	< 8.3	< 25	< 33	**0.948**	< 0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	< 21	--	< 82	< 1.03	**2.23**
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	< 14	--	< 55	< 0.689	**0.976**
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<1.70	<1.7	<1.70	< 34	--	< 140	< 1.70	< 1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	< 31	< 62	< 120	< 1.54	< 1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	<1.20	< 24	--	< 96	< 1.20	< 1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	<1.20	< 24	--	< 96	**84.5**	< 1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	<1.20	< 24	< 48	< 96	< 1.20	< 1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.810	<0.81	<0.810	< 16	--	< 65	< 0.810	< 0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	< 16	< 32	< 64	< 0.802	< 0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	< 16	< 32	< 63	< 0.793	< 0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	< 16	< 32	< 63	< 0.793	< 0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.924	<0.793	<0.793	<0.793	< 16	< 32	< 63	< 0.793	< 0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.908	<0.924	<0.924	<0.924	< 18	< 55	< 74	< 0.924	< 0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	< 18	< 36	< 73	< 0.908	< 0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.721	<0.908	<0.908	<0.908	< 18	< 54	< 73	< 0.908	< 0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<2.36	<0.721	<2.27	<2.27	< 14	--	< 58	< 0.721	< 0.721
Ethanol	<2.36	**37.0**	<2.36	**53.7**	<4.71	**10.1**	<4.71	< 24	--	**1,800**	**16**	**56.5**
Ethylbenzene	<0.867	<0.867	<0.867	<0.982	<0.867	<0.867	<0.867	< 17	< 52	< 69	**3.25**	**1.68**
4-Ethyltoluene	<0.982	<0.982	<0.982	<1.12	<0.982	<0.982	<0.982	< 20	--	< 79	**1.7**	< 0.982
Trichlorofluoromethane	**1.30**	**1.75**	**1.38**	**1.65**	**2.66**	**1.45**	<1.12	< 22	--	< 90	**1.35**	**1.83**
Dichlorodifluoromethane	**2.60**	**2.46**	**2.41**	**7.67**	**25.1**	**1.83**	**2.40**	< 20	--	< 79	**1.83**	**4.31**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	< 31	--	< 120	< 1.53	< 1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<1.40	<1.4	<1.40	< 28	--	< 110	< 1.40	< 1.40
Heptane	<0.818	<0.818	<0.818	**1.66**	<0.818	<0.818	<0.818	< 16	--	< 65	**2.72**	**0.969**
Hexachloro-1,3-butadiene	<6.73	<6.73	<0.673	<2.22	<6.73	<6.73	<6.73	< 130	--	< 540	< 6.73	< 6.73
n-Hexane	<2.22	<2.22	<2.22	**7.47**	<2.22	<2.22	<2.22	< 14	--	**1,800**	**3.54**	**4.13**
Isopropylbenzene	<0.983	<0.983	<0.983	<0.694	<0.983	<0.983	<0.983	< 20	--	< 79	< 0.983	< 0.983
Methylene Chloride	<0.694	**2.58**	<0.694	**15.2**	<0.694	**1.21**	<0.694	< 14	--	**76**	**0.813**	< 0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<3.69	<5.11	<5.11	<5.11	< 100	--	< 410	< 5.11	< 5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<5.12	<3.69	<3.69	<3.69	< 74	--	**380**	**7.53**	< 3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<0.819	<5.12	<5.12	<5.12	< 100	--	< 410	< 5.12	< 5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.721	<0.819	<0.819	<0.819	< 16	--	98	**0.927**	< 0.819
MTBE	<0.721	<0.721	<0.721	<3.30	<0.721	<0.721	<0.721	< 14	--	< 58	< 0.721	< 0.721
Naphthalene	<3.30	<3.30	<3.30	<3.07	<3.30	<3.3	<3.30	< 66	--	< 260	< 3.30	< 3.30
2-Propanol	<3.07	**3.44**	<3.07	**5.75**	<3.07	<3.07	<3.07	< 61	--	< 250	**16.7**	**7.44**
Propene	<2.15	<2.15	<2.15	<0.982	<2.15	<2.15	<2.15	**16**	--	< 55	< 0.689	**0.762**
n-Propylbenzene	<0.982	<0.982	<0.982	<0.851	<0.982	<0.982	<0.982	--	--	--	--	--
Styrene	<0.851	<0.851	**1.08**	<1.37	<0.851	<0.851	<1.70	< 17	--	< 68	**1.11**	**0.95**
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.36	<1.37	<1.37	<1.37	< 27	< 55	< 110	< 1.37	< 1.37
Tetrachloroethylene	**10.8**	**47.3**	**46.4**	**445**	**876**	**3.84**	**5.87**	**120,000**	**49,000**	**240,000**	**109 M**	**325**
Tetrahydrofuran	<0.590	<0.590	<0.590	<1.88	<0.590	<0.59	<0.590	< 12	--	< 47	**25.2**	< 0.590
Toluene	<1.88	<1.88	<1.88	**3.54**	<1.88	<1.88	<1.88	< 15	--	**1,100**	**17**	**5.32**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	< 93	--	< 370	< 4.66	< 4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	< 22	< 44	< 87	< 1.09	< 1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	< 22	< 65	< 87	< 1.09	< 1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**91**	< 43	**170**	< 1.07	< 1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	< 20	--	< 79	**6.02**	**1.61**
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	< 20	--	< 79	**1.7**	< 0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	< 19	--	< 75	**1.99**	< 0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	< 10	< 20	< 41	< 0.511	< 0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	< 17	--	< 70	< 0.875	< 0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<2.22	<2.22	< 14	< 28	< 56	< 0.704	< 0.704
m&p-Xylene	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	< 35	--	< 140	**14.1**	**6.13**
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	< 17	--	< 69	**4.89**	**1.99**
TPHg	<826	<826	<826	<826	**983**	<826	<826	**31,000**	--	**110,000**	**495**	**511**

See notes at end of table.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

Sample Location	VP-J	VP-J DUP	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J
Depth (ft bgs)	15	15	15	15	15	15	15	15	15	15	15	15
Date	12/12/2016	12/12/2016	3/30/2017	9/29/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/19/2019	5/13/2019	8/19/2019
Acetone	**16.7**	**9.62**	<2.97	**7.58**	**4.48**	**31.2**	<2.97	<2.97	**12.1**	**4.03**	<3.5	<59.4
Allyl Chloride	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.3	<12.5
Benzene	< 0.639	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	**1.06**	<0.639	<0.47	<0.639
Benzyl Chloride	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<3.8	<1.04
Bromodichloromethane	< 1.34	< 1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<2	<1.34
Bromoform	< 6.21	< 6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<7.6	<6.21
Bromomethane	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<1.1	<15.5
1,3-Butadiene	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.65	<88.5
Carbon Disulfide	< 0.622	< 0.622	<0.622	<0.622	<0.622	<0.622	<0.622	**2.58**	<0.622	<0.622	<0.91	<12.4
Carbon Tetrachloride	< 1.26	< 1.26	**4.65**	<1.26	<1.26	<1.26	<1.26	**1.52**	<1.26	<1.26	<1.8	<25.2
Chlorobenzene	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.3	<0.924
Chloroethane	< 0.528	< 0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.77	<10.6
Chloroform	**1.30**	< 0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.71	<19.5
Chloromethane	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.6	<8.26
2-Chlorotoluene	< 1.03	< 1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	--	<1.03
Cyclohexane	< 0.689	< 0.689	<0.689	<0.689	**2.46**	<0.689	<0.689	<0.689	**0.967**	<0.689	<2.5	<13.8
Dibromochloromethane	< 1.70	< 1.70	<1.7	<1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<2.5	<1.70
1,2-Dibromoethane	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.1	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20
1,3-Dichlorobenzene	**1.35**	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	**10.6**	<1.20	<1.8	<1.20
1,4-Dichlorobenzene	< 1.20	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<4.4	<1.20
1,2-Dichloroethane	< 0.810	< 0.810	<0.81	<0.810	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810	<0.59	<0.810
1,1-Dichloroethane	< 0.802	< 0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<1.2	<16.0
1,1-Dichloroethene	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<15.9
cis-1,2-Dichloroethene	< 0.793	< 0.793	**1.94**	<0.793	<0.793	**1.08**	<0.793	<0.793	<0.793	<0.793	<1.2	<15.9
trans-1,2-Dichloroethene	< 0.793	< 0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<15.9
1,2-Dichloropropane	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4	<0.924
cis-1,3-Dichloropropene	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908
trans-1,3-Dichloropropene	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908
1,4-Dioxane	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<0.721
Ethanol	**2.05**	**1.42 M**	**2.00**	**22.9**	<1.19	**2.21**	**1.30**	<1.19	**25.00**	**2.49**	<2.8	<23.8
Ethylbenzene	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.55**	<0.867	<0.867	**1.72**	<0.867	<1.3	<0.867
4-Ethyltoluene	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**3.5**	<0.982	<3.6	<0.982
Trichlorofluoromethane	**1.78**	**1.35**	**5.27**	**1.92**	**1.97**	**2.31**	**1.43**	**3.97**	**1.8**	**2.14**	<1.6	<22.5
Dichlorodifluoromethane	**4.9**	**2.59**	**11.6**	**3.25**	**4.45**	**3.62**	**1.71**	**11.7**	**3.05**	**4.05**	**2.1**	<19.8
1,1,2-Trichlorotrifluoroethane	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<2.2	<30.7
1,2-Dichlorotetrafluoroethane	< 1.40	< 1.40	<1.4	<1.40	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40	<2	<28.0
Heptane	< 0.818	< 0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	**1.49**	<0.818	<1.2	<0.818
Hexachloro-1,3-butadiene	< 6.73	< 6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<7.8	<6.73
n-Hexane	< 0.705	< 0.705	<0.705	<0.705	<0.705	**2.07**	<0.705	<0.705	**3.26**	<0.705	<1	<14.1
Isopropylbenzene	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<3.6	<0.983
Methylene Chloride	< 0.694	< 0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**3.47**	<0.694	<5.1	<13.9
Methyl Butyl Ketone	< 5.11	< 5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<6	<5.11
2-Butanone (MEK)	< 3.69	< 3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	**7.32**	<3.69	<4.3	<73.7
4-Methyl-2-pentanone (MIBK)	< 5.12	< 5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<6	<5.12
Methyl methacrylate	< 0.819	< 0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<1.2	<0.819
MTBE	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<14.4
Naphthalene	< 3.30	< 3.30	<3.3	<3.30	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30	<3.8	<3.30
2-Propanol	< 3.07	< 3.07	<3.07	<3.07	<3.07	**37.2**	<3.07	<3.07	**6.34**	<3.07	<3.6	<61.5
Propene	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.5	<13.8
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.851	< 0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<1.2	<0.851
1,1,2,2-Tetrachloroethane	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1	<1.37
Tetrachloroethylene	**340**	**278 M**	**3,480**	**1,240**	**695**	**1,810**	**339**	**1,010**	**262**	**950**	**460**	**3,300**
Tetrahydrofuran	< 0.590	< 0.590	<0.59	<0.590	<0.59	**2.93**	<0.590	<0.590	**13.7**	<0.590	<0.86	<11.8
Toluene	< 0.753	< 0.753	<0.753	<0.753	<0.753	**1.64**	<0.753	<0.753	**6.58**	<0.753	<1.1	<0.753
1,2,4-Trichlorobenzene	< 4.66	< 4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<10.9	<4.66
1,1,1-Trichloroethane	< 1.09	< 1.09	**2.20**	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.6	<21.8
1,1,2-Trichloroethane	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.8	<1.09
Trichloroethylene	< 1.07	< 1.07	**2.62**	**2.10**	<1.07	**1.79**	<1.07	<1.07	<1.07	**1.24**	<0.79	<1.07
1,2,4-Trimethylbenzene	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**4.59**	<0.982	<1.4	<0.982
1,3,5-Trimethylbenzene	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**1.34**	<0.982	<1.4	<0.982
2,2,4-Trimethylpentane	< 0.934	< 0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<3.4	<18.7
Vinyl Chloride	< 0.511	< 0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.37	<10.2
Vinyl Bromide	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<1.3	<17.5
Vinyl Acetate	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1	<14.1
m&p-Xylene	< 1.73	< 1.73	<1.73	<1.73	<1.73	**6.36**	<1.73	<1.73	**7.37**	<1.73	<2.5	<1.73
o-Xylene	< 0.867	< 0.867	<0.867	<0.867	<0.867	**2.02**	<0.867	<0.867	**2.96**	<0.867	<1.3	<0.867
TPHg	**1,270**	**651**	**2,060**	**812**	**575**	**2,220**	**431 J+**	**1,010**	**467**	**1,580**	**653**	**1,920**

See notes at end of table.

Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

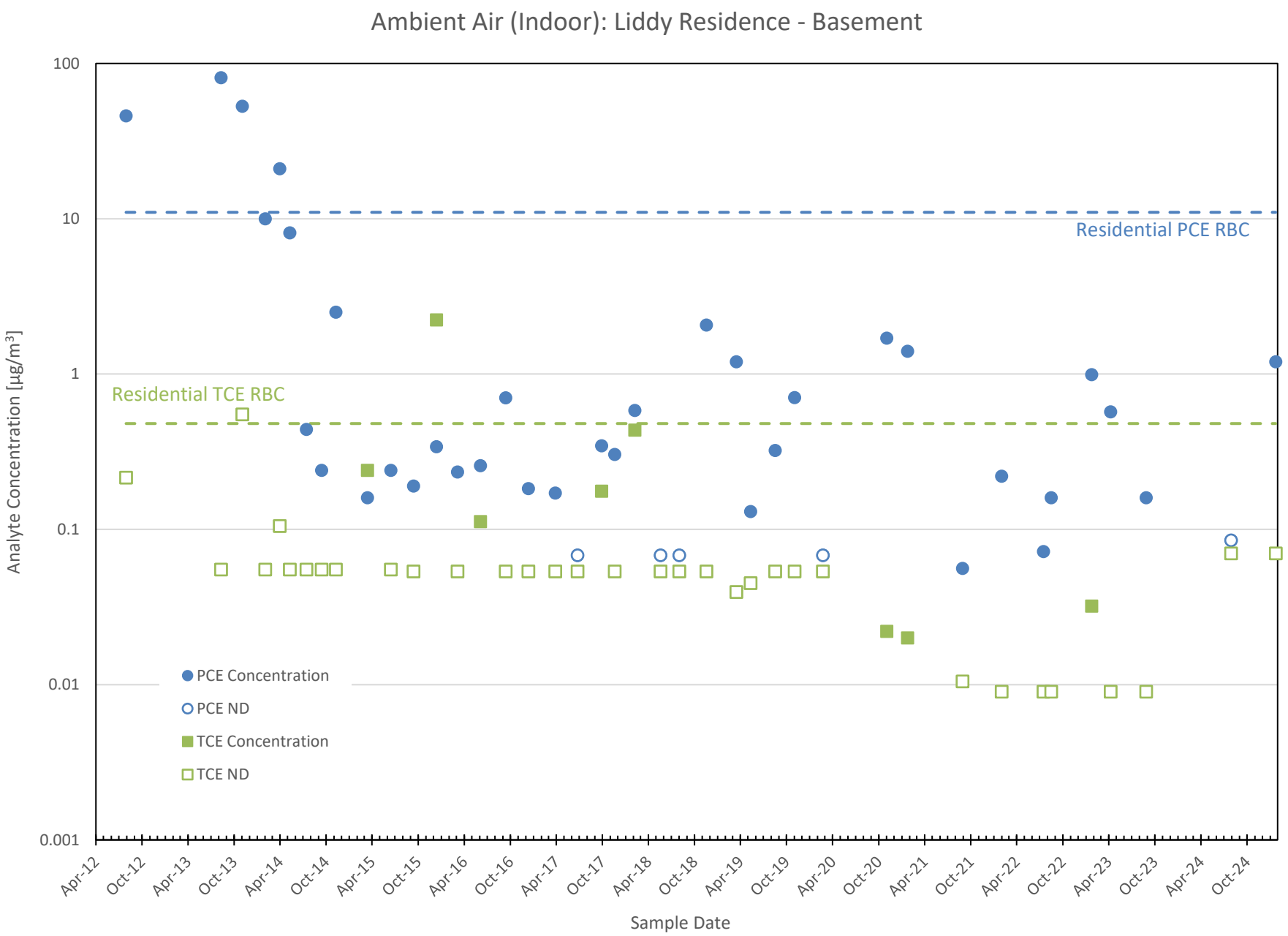
Sample Location	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J	VP-J (15)	VP-J (15)
Depth (ft bgs)	15	15	15	15	15	15	15	15	15	15	15	15
Date	11/4/2019	2/25/2020	11/4/2020	8/31/2021	1/26/2022	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023	12/20/2023	7/23/2024
Acetone	**7.82**	<2.97	<2.97	<2.97	<2.97	<2.97	**3.18**	<2.97	**3.59**	**4.49**	<2.97	**5.68**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.228	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.381	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.230	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.317	**1.29**	<1.24
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973	<0.973
Chloromethane	<0.413	<0.413	<0.413	**0.551**	<0.413	<0.413	<0.413	<0.413	<0.413	<0.213	<0.413	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<0.618	<1.7	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.770	<1.2	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.09	<1.2	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.335	<1.2	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.283	<0.81	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.290	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.302	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.311	<0.793	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.267	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.351	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.313	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.331	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.300	<2.27	<2.27
Ethanol	**17.10**	<1.19	**5.86**	<2.36	<2.36	<2.36	<2.36	**10.5**	**6.09 J+**	**19.0**	<4.71	<4.71
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982	<0.982
Trichlorofluoromethane	**1.20**	**1.54**	**1.84**	**1.48**	<1.12	**2.13**	**1.58**	**1.44**	**1.55**	**1.15**	**1.12**	**1.50**
Dichlorodifluoromethane	**2.04**	<0.989	**4.35**	**2.75**	**2.83**	**2.54**	**2.18**	**3.91**	**5.14**	**1.80**	**2.08**	**8.36**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<0.608	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<0.622	<1.4	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.425	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<1.12	<6.73	<6.73
n-Hexane	**1.57**	<0.705	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	<0.726	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983	<0.983
Methylene Chloride	**1.50**	<0.694	<0.694	<0.694	<0.694	<0.694	<0.684	**3.09**	<0.694	**2.27**	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<0.544	<5.11	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<0.240	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<0.313	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.233	<0.721	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	**5.24**	<3.3	<3.30
2-Propanol	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	**4.38**	<3.07	<3.07
Propene	<0.689	<0.689	<0.689	<2.15	<2.15	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15	<2.15
n-Propylbenzene	--	--	--	--	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982	<0.982
Styrene	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	**1.32**	<0.851	<0.851	<0.335	<0.851	<1.70
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.30	<1.37	<0.511	<1.37	<1.37
Tetrachloroethylene	**565**	**315**	**1,030**	**1,390**	**747**	**602**	**1,040**	**70.6**	**91.7**	**2.78**	**492**	**446**
Tetrahydrofuran	**1.36**	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.590	<0.216	<0.59	<0.590
Toluene	**1.07**	<0.753	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	**2.05**	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	**7.4**	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	**1.19**	<1.09	<1.09	<1.09	<1.09	<1.09	<0.400	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	**10.4**	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.422	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<0.364	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.382	<0.982	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.621	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<0.408	<2.22	<2.22
m&p-Xylene	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585	<1.73	<1.73
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867	<0.867
TPHg	**541**	<826	<4,130	**1,960 J+**	**938**	**913**	**1,450**	<826	<826	<164	<826	<826

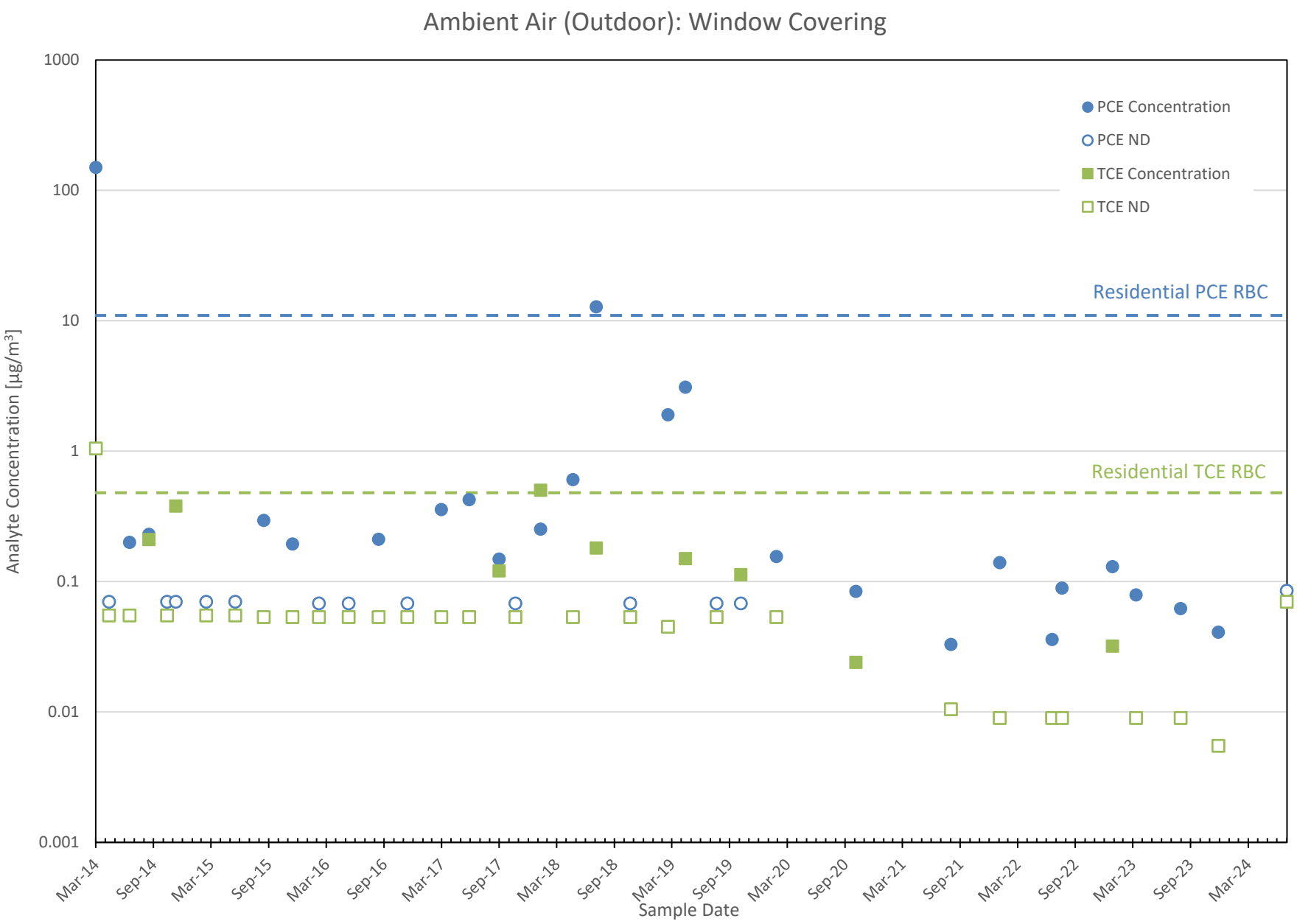
See notes at end of table.

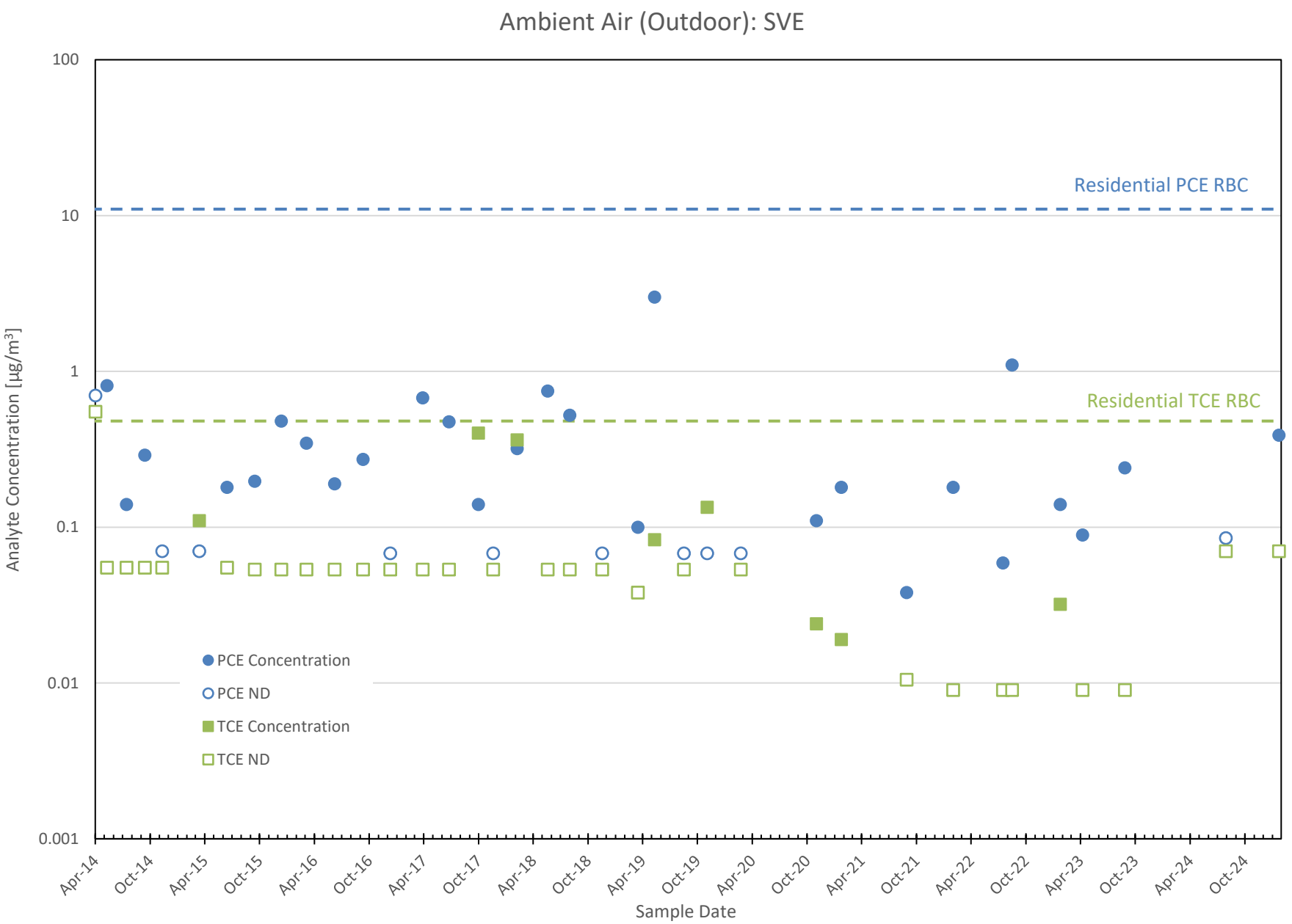
Table B-4
Soil Vapor Analytical Results – Commercial
Former Ellis Dry Cleaners

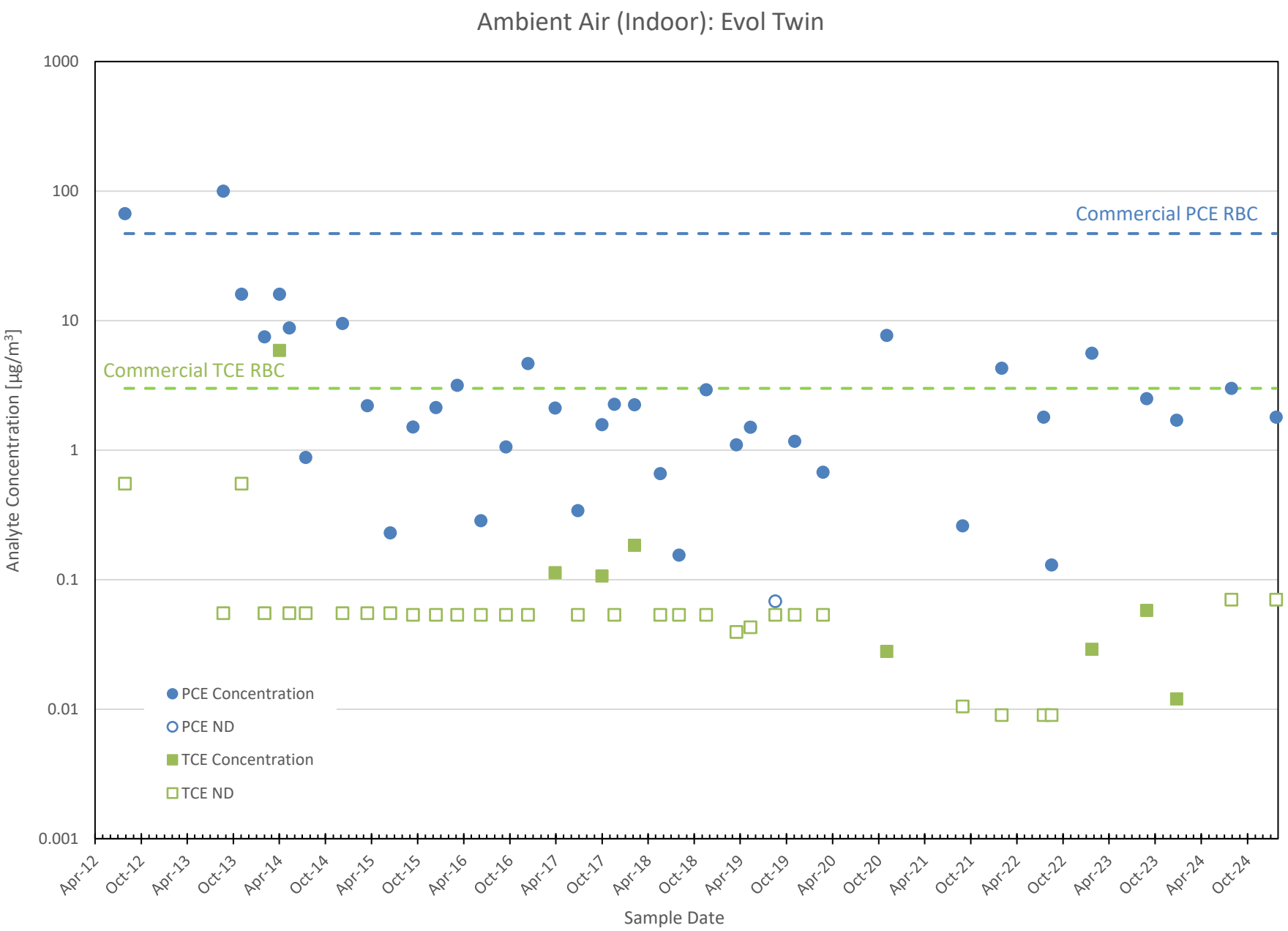
Notes:

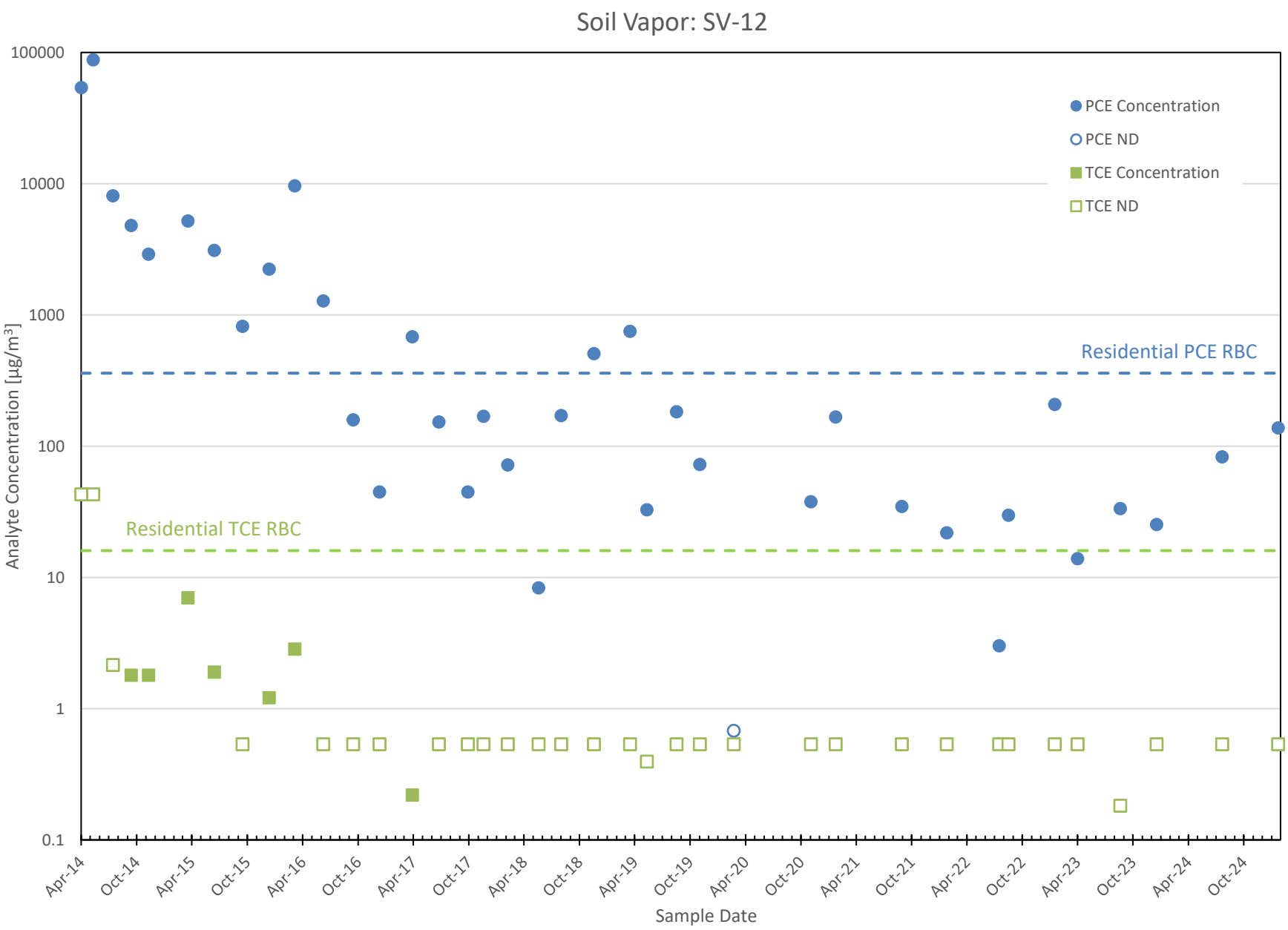
1. µg/m^3 = Micrograms per cubic meter.
2. Bold values indicate concentration detected above the minimum reporting limit.
3. VOCs = Volatile organic compounds.
4. Sample analyzed by EPA Method TO-15 SIM.
5. M = The relative percent difference between the primary and duplicate sample are above the quality control limit of 30%.
6. J = Result is estimated.
7. J+ = Data results are estimated values and may be biased high.
8. UJ = The not detected result is estimated at the reporting limit.

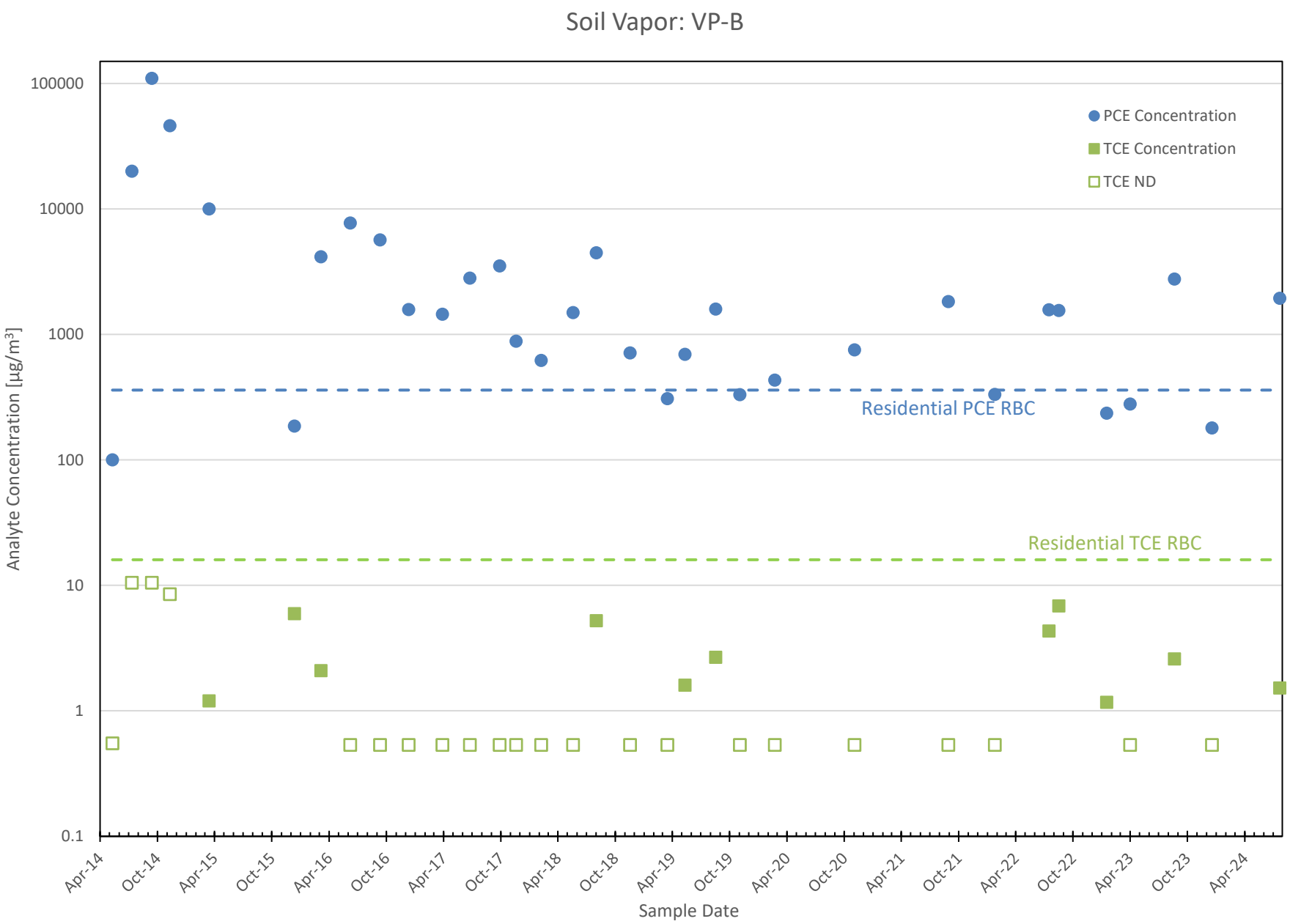

Ambient Air (Indoor): Liddy Residence - Basement
Analyte Concentration [µg/m³]
100
10
1
0.1
0.01
0.001
Residential PCE RBC
Residential TCE RBC
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date

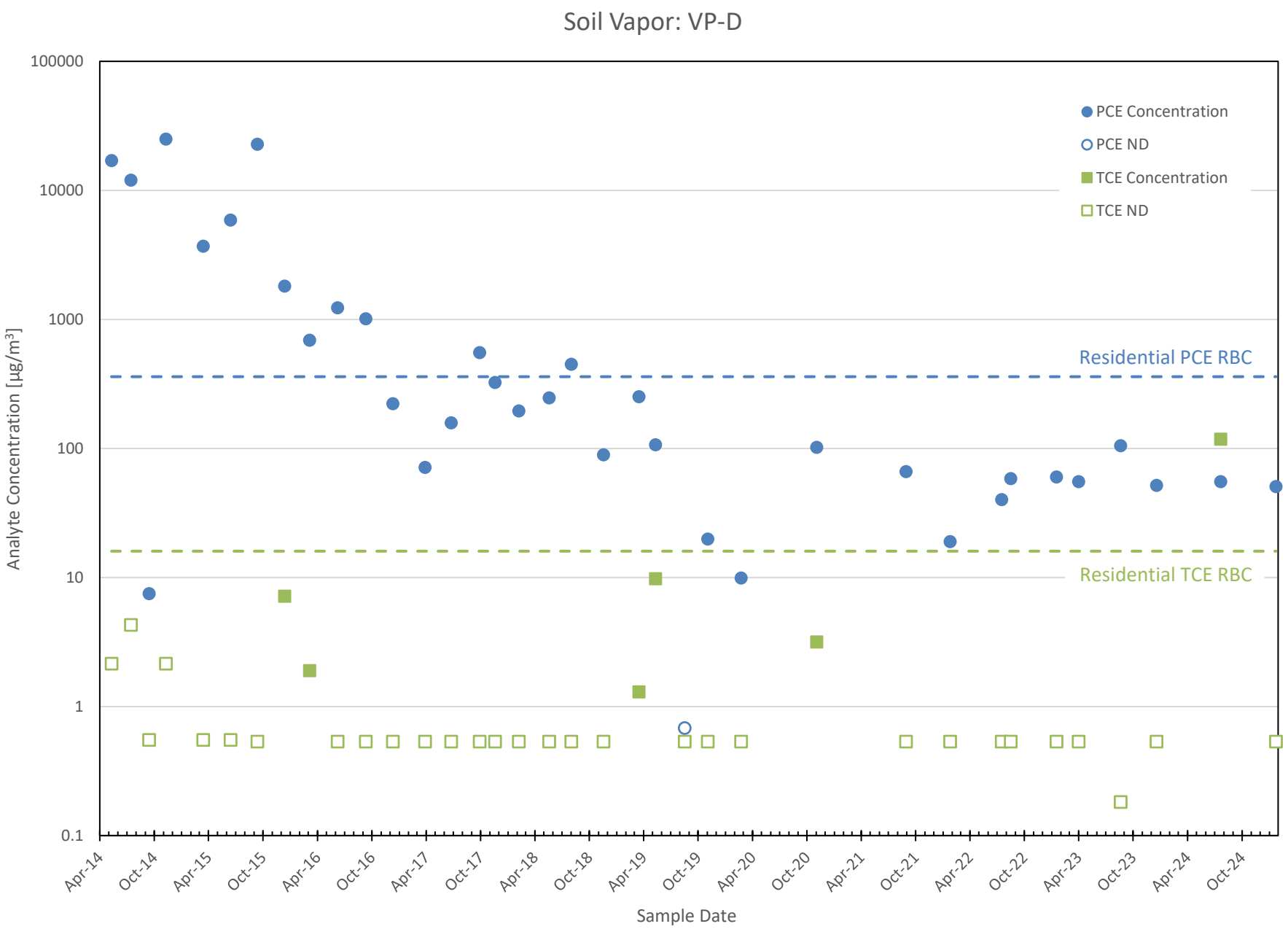

Ambient Air (Outdoor): Window Covering
1000
100
10
1
0.1
0.01
0.001
Analyte Concentration [µg/m³]
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Residential PCE RBC
Residential TCE RBC
Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Mar-23
Sep-23
Mar-24
Sample Date


Ambient Air (Outdoor): SVE
Analyte Concentration [µg/m³]
100
10
1
0.1
0.01
0.001
Residential PCE RBC
Residential TCE RBC
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date


Ambient Air (Indoor): Evol Twin
Analyte Concentration [µg/m³]
1000
100
10
1
0.1
0.01
0.001
Commercial PCE RBC
Commercial TCE RBC
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date


Soil Vapor: SV-12
100000
10000
1000
100
10
1
0.1
Analyte Concentration [µg/m³]
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Residential PCE RBC
Residential TCE RBC
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date


Soil Vapor: VP-B
Analyte Concentration [µg/m³]
100000
10000
1000
100
10
1
0.1
PCE Concentration
TCE Concentration
TCE ND
Residential PCE RBC
Residential TCE RBC
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Sample Date


Soil Vapor: VP-D
100000
10000
1000
100
10
1
0.1
Analyte Concentration [µg/m³]
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Residential PCE RBC
Residential TCE RBC
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
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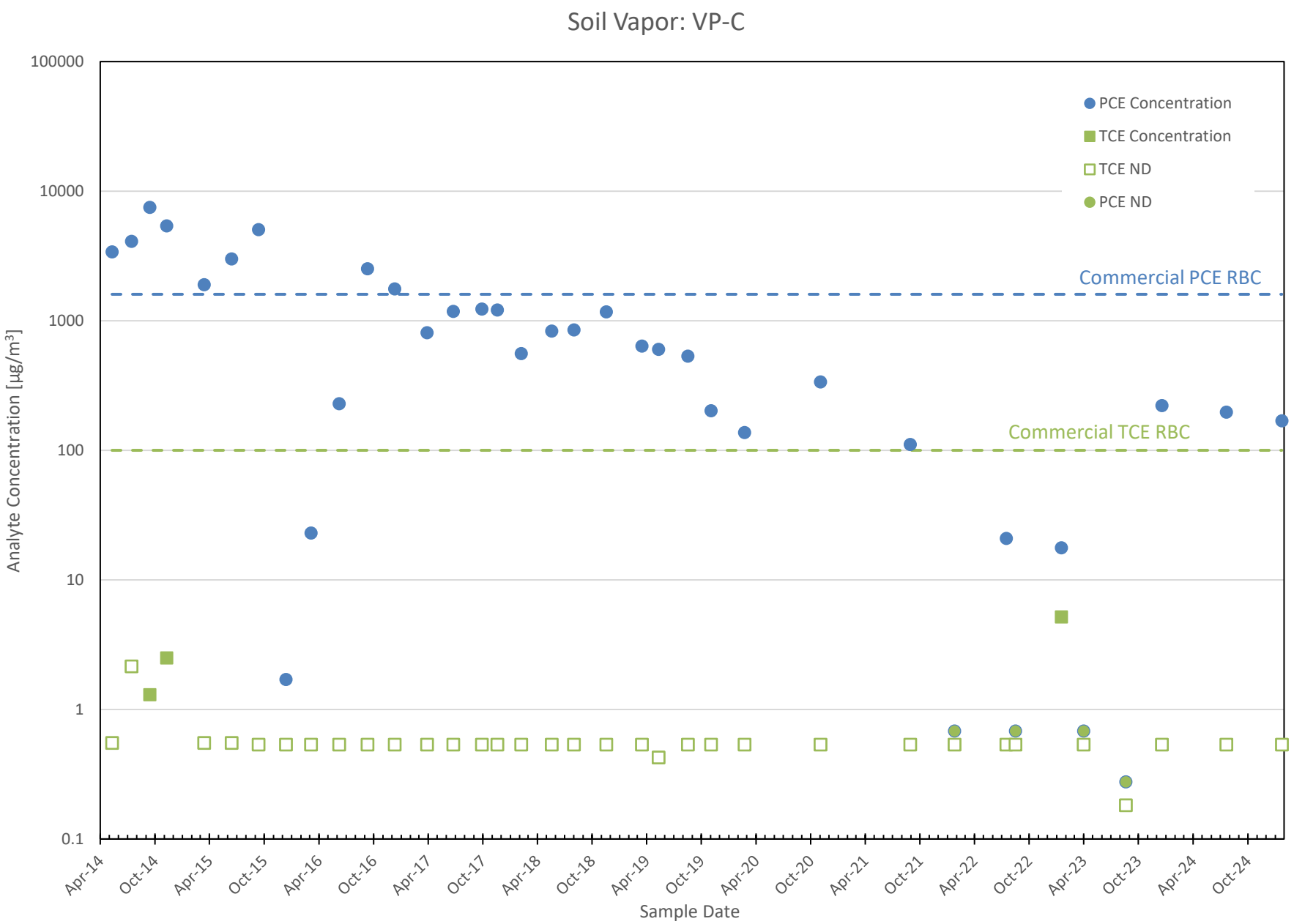
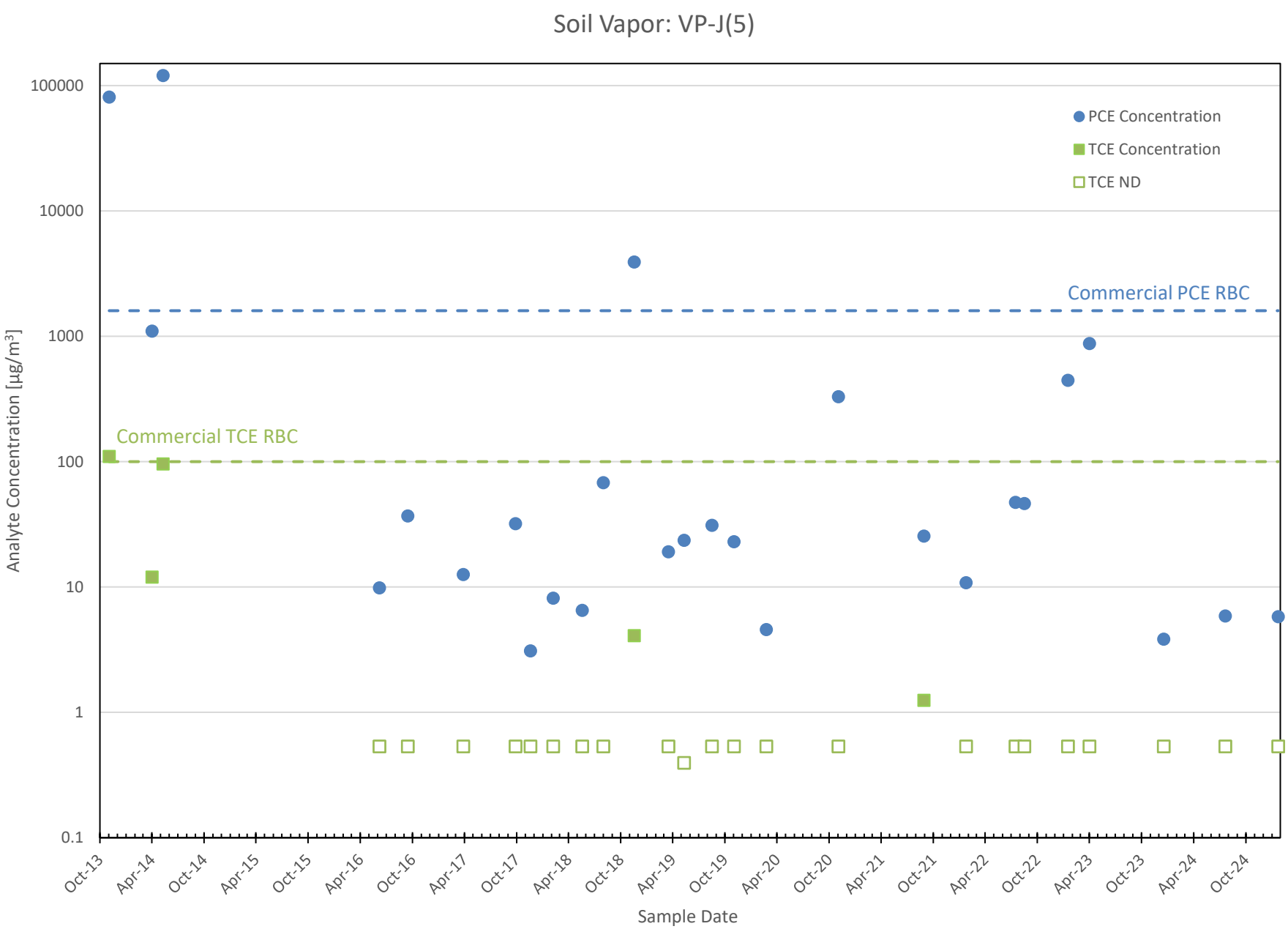
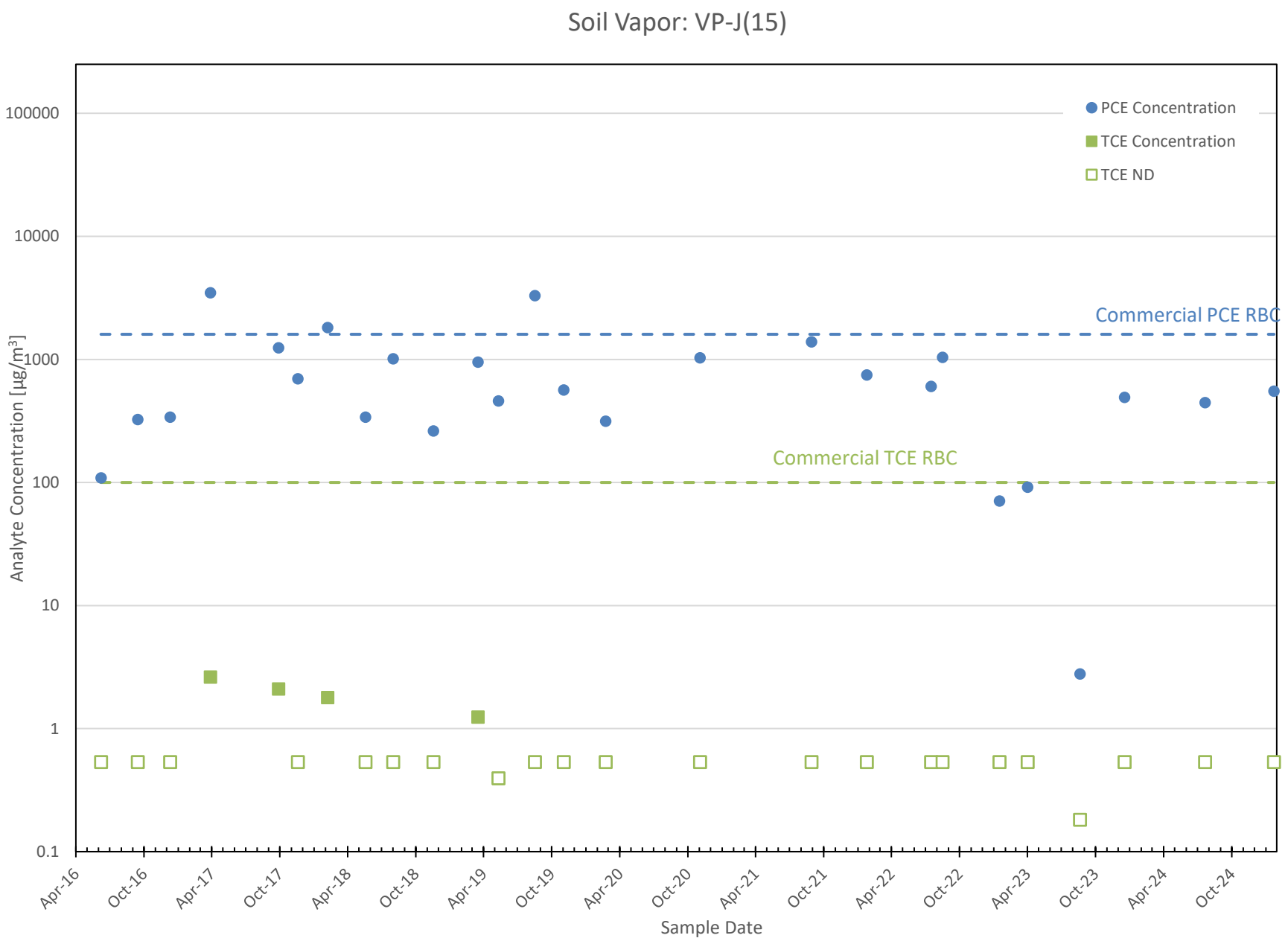
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date


Soil Vapor: VP-C
100000
10000
1000
100
10
1
0.1
Analyte Concentration [µg/m³]
PCE Concentration
TCE Concentration
TCE ND
PCE ND
Commercial PCE RBC
Commercial TCE RBC
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date


Soil Vapor: VP-J(5)
Analyte Concentration [µg/m³]
100000
10000
1000
100
10
1
0.1
PCE Concentration
TCE Concentration
TCE ND
Commercial PCE RBC
Commercial TCE RBC
Oct-13
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date


Soil Vapor: VP-J(15)
PCE Concentration
TCE Concentration
TCE ND
Commercial PCE RBC
Commercial TCE RBC
Analyte Concentration [µg/m³]
100000
10000
1000
100
10
1
0.1
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Apr-24
Oct-24
Sample Date

Appendix C

SVE Ambient Air Comparison

Table C-1
Ambient Air Analytical Results – Liddy Residence
SVE Ambient Air Comparison

Sampling Date	SVE System	Liddy PCE Average Concentration	Liddy TCE Average Concentration
	As Recorded During Field Events	µg/m^3	
RBCair - Chronic Residential		11	0.48
3/30/2017	On	0.289	<0.107
6/26/2017	Off	0.122	0.081
9/29/2017	Off	0.311	0.121
11/20/2017	On	0.299	<0.107
2/8/2018	On	0.510	**2.24**
5/21/2018	On	<0.136	<0.107
July 2018 - System Shut Down			
8/3/2018	Off	0.150	<0.107
11/19/2018	Off	1.70	<0.107
3/18/2019	Off	0.817	<0.09
April 2019 - System Restarted			
5/13/2019	On	0.105	<0.09
8/19/2019	On	0.153	<0.107
11/4/2019	On	0.561	<0.107
2/24/2020	On	<0.136	0.073
June 2020 - Installation of Automatic Timer - System Runs from 8AM to 5PM			
September 2020 - System Shut Down			
November 2020 - Heat Exchanger Turned Off			
11/3/2020	Off	1.19	0.024
1/25/2021	Off	1.16	0.024
January 2021 - System Restarted			
8/25/2021	On	0.046	<0.021
2/2/2022	On	0.203	<0.018
7/18/2022	On	0.050	<0.018
8/18/2022	On	0.114	<0.018
December 2022 - System Shut Down			
1/25/2023	Off	1.20	0.036
4/3/2023	Off	0.793	0.013
June 2023 - System Restarted with Modifications - Liddy Property Wells Turned Off			
8/29/2023	On	0.123	<0.018
7/31/2024[4]	On	<0.17	<0.14
1/24/2025	On	1.20	<0.15
Average Concentration - Based on Field Observations of SVE System			
	On	0.258	0.188
	Off	0.827	0.050

Notes:

1. µg/m^3 = Micrograms per cubic meter.
2. -- = Not Recorded.
3. Bold signifies a concentration above the RBCair - Chronic Residential
4. Samples were only taken in the basement from this date afterwards. The concentration is not an average but just one concentration.
5. Half the non-detect value is used in avaerage calculations