Air Assessment Report
December 2023 Sampling
Former Ellis Dry Cleaners
Portland, Oregon
ECSI No. 5612

Prepared for:
Oregon Department of Environmental Quality
Task Order No. 71-18-6

March 15, 2024
2061-02/Task 3

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1.0 Introduction

This report presents the results of ambient air and soil vapor sampling conducted on December 20, 2023 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. 71-18-6.

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, the 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) for the property (DEQ, 2003; updated 2023). The RBCs for air inhalation (RBC_{air}), soil vapor (RBC_{sv}), and vapor intrusion from groundwater (RBC_{wi}) were revised in June 2023 to align with the U.S. Environmental Protection Agency (EPA's) guidance and current screening levels. As a result of this change, the RBCs for urban residential exposure screening have been removed (current vapor intrusion RBCs only include residential and commercial screening levels), and several analytes, including PCE and TCE, have lower screening levels. As a result, several monitoring points that had previously shown concentrations below the RBCs (such as VP-A and VP-B) now exceed the RBCs for soil vapor. This does not represent a degradation of site conditions but reflects a more conservative approach for managing potential vapor intrusion risks.

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, the vacuum levels were increased from less than 1 inch of water vacuum to about 30 inches of water vacuum on June 8, 2015. After several years of operation, the on-site SVE system was temporarily shut down as part of remediation confirmation testing during the week of July 2, 2018, and was restarted in April 2019. The onsite SVE system was again temporarily shut down on September 24, 2020 (not operating during the November 2020 sampling event) and again on January 8, 2021 (not operating during the January 2021 sampling event). From June 2021 through December 2022, a timer was installed on the SVE system, and the system has subsequently operated between 8:00 a.m. and 5:00 p.m. daily.

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 the DEQ. The 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 for the DEQ 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 the 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 the 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. Indoor air quality has been consistently acceptable in the Liddy residence since February 2018 including during periods when the SVE system was shut down. This change is not expected to affect indoor air quality.

1.2 Scope of Work

The work described in this report consists of the collection of ambient air and soil vapor samples in December 2023 from properties adjacent to the former Ellis Dry Cleaners site. The purpose of the sampling is to assess the current risk from vapor intrusion in buildings and the effectiveness of the vapor control systems 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 seven ambient air samples:
  - One outdoor ambient air sample at the former Window Coverings building, approximately 80 feet north of the Site;
  - One outdoor ambient air sample on the northeast boundary of the Site;
  - Four indoor air samples inside the Liddy residence, east of the Site (includes one duplicate sample);
  - One indoor air sample inside of the former Evol Twin building, north of the Site;
- Collection of eight soil vapor samples:
  - Two samples from the SVE wells on the Liddy property;
  - One sample from north of the Site (point 'J'), between the Site and the former Evol Twin Building;
  - Five samples from vapor points located in the sidewalks west 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

Ambient air samples from inside the Liddy residence were not collected. Apex was unable to access the Liddy residence during December due to extended travel of the resident.

The Background SVE ambient air sample was not analyzed. When deployed, the sample was placed in a housing to prevent the sample media from getting wet. Upon arriving to retrieve the sample after one week, it was found that the sample housing had been disturbed and the media was wet. The laboratory is unable to analyze wet media.

Soil vapor sample SV-10 was not collected. The PVC pipe lateral that holds the sample port was crushed and the pipe was filled with dirt. This location is not viable for future sampling or vapor extraction unless repaired (currently not considered necessary due to the relatively close proximity of SV-12). The monument to the SVE well was intact.

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. The 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 (though during this event, access to the Liddy residence was not provided as noted above in Section 1.3).

3.0 Sampling and Maintenance Activities

3.1 Ambient Air Sampling

On December 20, 2023, three Radiello RAD 145 passive ambient air samplers were deployed at the former Evol Twin, Background SVE, and Background Window Coverings locations (as shown on Figure 2). The passive samplers were retrieved on December 27, 2023, for a total exposure period of seven days. The samplers were analyzed by EPA Method TO-17 (Standard Compound List) which includes analysis of a limited set of VOCs, including benzene, toluene, ethylbenzene, and xylenes (BTEX), 1,1,1-trichloroethane, TCE, and PCE.

The range of barometric pressures recorded over the seven-day period was between 29.6 and 30.4 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 at the locations indicated on Figure 2.

3.2 Soil Vapor Sampling

On December 20, 2023, eight soil vapor samples were collected in general 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 into 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 vacuum on the 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 EPA Method TO-15, and the ambient air samples (from 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 is of acceptable quality, with data qualifications flagged on the tables as appropriate. The Radiello passive sampler analysis method does not include the full list of analytes that is represented in the TO-15 method and the data tables, but it does include the target chloroethenes (particularly PCE and TCE), and the method reporting limits (MRLs) for the included analytes are lower than for the TO-15 method.

4.1 Ambient Air Results

Ambient air analytical results are presented in Table 1 and shown on Figure 3. The Background Window Coverings sample was collected approximately 80 feet north of the Site. Tables of historical data are included in Appendix B. Appendix B also includes 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).

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 within the Evol Twin Print Shop at a concentration of 1.7 micrograms per cubic meter (µg/m^3) and TCE at 0.012 µg/m^3, which are well below the applicable RBCs of 47 µg/m^3 for PCE and 2.9 µg/m^3 for TCE. PCE and TCE concentrations observed during this sampling event are also significantly reduced relative to historical highs, with reductions

of more than 99 percent (compared to historical high concentrations of 100 µg/m^3 and 5.9 µg/m^3 for PCE and TCE, respectively).

Background Window Coverings. One outdoor ambient air sample was collected to compare to the indoor air sample 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 from the courtyard behind the former Evol Twin building (referred to as Background Window Covering). No analytes were detected above commercial ambient air RBCs. PCE was detected in the background sample at 0.041 µg/m^3 while TCE was not detected above the method reporting limit. The concentration of PCE in the background Window Covering sample is well below the applicable RBCs and below the concentration detected in the Evol Twin indoor air sample.

4.2 Soil Vapor Results

Soil vapor samples collected east of the Site from the SVE well on the Liddy property (SV-12), west of the Site in the sidewalk across North Williams Avenue (VP-A, VP-B), and south of the Site across Northeast Cook Street (VP-D) are presented in Table 2. SV-12 did not have a vacuum during sampling as the well has been closed off. These results are compared to the RBCs for soil vapor in residential settings. Historically, VP-D was compared to commercial RBCs; however, future use of the property to the south of the Site is reported to be mixed-use residential. Therefore, data collected from this vapor point have been screened against residential RBCs.

Soil vapor samples collected from southwest of the Site across Northeast Cook Street and North Williams Avenue (VP-C) and north of the Site (VP-J [5, 15]) are presented in Table 3. These results are compared to the RBCs for soil vapor in a commercial setting based on the current property uses. Tables of historical data collected at the Site are included in Appendix B. Appendix B also includes trend plots of the historical data.

Residential Property SVE Wells. A vapor sample was collected from the southernmost of the three SVE wells installed on the Liddy property (SV-12). The sample was collected at the wellhead. 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 25.3 µg/m^3. PCE concentrations in this well remain consistently below the chronic RBC for soil vapor in residential settings (360 µg/m^3) and significantly below historical highs (88,000 µg/m^3). TCE was not detected above the method reporting limit.

Residential Vapor Points. Vapor points VP-A and VP-B are located on the west side of North Williams Avenue (Figure 2) adjacent to mixed commercial and residential buildings. No analytes were detected at a concentration above the commercial soil vapor RBCs. PCE was detected at concentrations of 146 µg/m^3 and 180 µg/m^3 for samples collected from VP-A and VP-B, respectively. Both samples are below the residential chronic RBC of 360 µg/m^3. TCE was not detected above the method reporting limit in either sample.

PCE concentrations have historically varied in both VP-A and VP-B with concentrations regularly changing by an order of magnitude between sampling events. There is an apparent seasonal influence on concentrations (relatively higher concentrations during the dry season). Consistent with this trend, the concentrations from the December sampling event are lower than the August event, but well within recent variability and significantly lower than historical highs. The average PCE concentrations from the four monitoring events in 2023 (spanning the seasonal fluctuation cycle) are 550 µg/m^3 in VP-A and 864 µg/m^3 in VP-B, which are still above the chronic RBC (360 µg/m^3) by a factor of about 1.5 and 2.4, respectively, but do not exceed the acute RBC (1,400 µg/m^3). The average concentrations for 2023 are lower than the previous year and the lowest since monitoring began. Average concentrations over each calendar year for VP-A and VP-B are shown in the table below. While PCE concentrations exceed the residential chronic RBC in VP-A and VP-B, potential exposures to building occupants are likely mitigated by a vapor barrier and garage exhaust system installed as part of construction of the sub-grade parking garage of the building, as required by the 2010 Oregon Structural Specialty Code.

Average Concentration of PCE per Calendar Year

Year	VP-A	VP-B
	Concentrations in µ/m^3	
2014	7,900	44,025
2016	3,643	4,780
2017	1,995	2,166
2018	1,363	1,823
2019	779	730
2022	1,094	1,151
2023	550	864

Notes:
Years with less than three sampling events or that didn't include at least one sampling event in both winter and summer were not reported.

Vapor point VP-D is located on the south side of North Cook Street adjacent to a property that reportedly will be developed for mixed commercial and residential uses. No analytes were detected at a concentration above the residential soil vapor RBCs. PCE was detected at a concentration of 51.7 µg/m^3 which is below the residential chronic RBC of 360 µg/m^3. TCE was not detected above the method reporting limit.

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 method reporting limit in any of the commercial property samples while PCE was detected in all three samples. PCE concentrations in VP-C (221 µg/m^3) and VP-J (15) (492 µg/m^3) are significantly higher than in the August 2023 sampling event but are well below the RBC for soil vapor in commercial settings (1,600 µg/m^3) and well

below historical high concentrations. The concentration of PCE in VP-J (5) was lower than the previous monitoring event by two orders of magnitude.

5.0 Conclusions

Concentrations in ambient air and soil vapor samples collected during the December 2023 event were all below applicable RBCs. As shown on the trend plots included in Appendix B, significant reductions in PCE and TCE concentrations have been observed in indoor air monitoring points and soil vapor samples. PCE concentrations in each monitoring point have been reduced by more than two orders of magnitude relative to historical high concentrations.

The PCE concentration in the indoor ambient sample Evol Twin (1.7 µg/m^3) was lower than observed during the previous sampling event (2.5 µg/m^3) but higher than that observed in the outdoor ambient sample Background Window Coverings (0.041 µg/m^3).

Concentrations of PCE and TCE in soil vapor north of the SVE system (VP-J [5], VP-J [15]) have fluctuated historically and since the restart of the SVE system in June 2023. Soil vapor sample SV-12, while also near the SVE system, is farther away from wells with an active vacuum. The concentrations in this well have been consistent since the restart of the SVE system.

Concentrations in soil vapor samples farther away from the SVE system (VP-A, VP-B, VP-C, VP-D) decreased compared to the August 2023 event with the exception of VP-C. This is consistent with seasonal variation that has been observed. VP-C increased compared with the previous sampling event but is still below historical high concentrations.

With the seasonal influence on soil vapor concentrations, which is most apparent in monitoring points that exhibit relatively higher PCE concentrations during the dry season, we recommend consideration of reducing the sampling frequency from quarterly to semi-annually or annually (i.e., during the dry season) to track long-term trends in the seasonally high concentrations. Consideration should also be given to reducing the number of sample points that are monitored during each event; the close proximity of VP-A and VP-B and the similarity in observations suggest that only one point would need to be regularly sampled (i.e., VP-B since it typically has the higher concentrations of the two).

6.0 References

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

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

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

Table 1
Ambient Air Analytical Results - Commercial
Former Ellis Dry Cleaners

Sample Location	Evol Twin Shop	Background Window Covering	Background SVE	RBC_{air} Commercial	
Date	12/27/2023	12/27/2023	--	Chronic	Acute
VOCs by TO-17	Concentrations in µg/m^3				
Benzene	**0.42**	**0.5**	--	1.6	87
Cyclohexane	**0.11**	**0.095**	--	26,000	--
Ethyl Benzene	**0.28**	**0.11**	--	4.9	66,000
Toluene	**1.3**	**0.53**	--	22,000	23,000
Styrene	**0.80**	**0.058**	--	4,400	63,000
Tetrachloroethene	**1.7**	**0.041**	--	47	120
1,1,1-Trichloroethane	<0.029	<0.029	--	--	--
Trichloroethene	**0.012**	<0.011	--	3	6.3
m,p-Xylene	**0.88**	**0.33**	--	--	26,000
o-Xylene	**0.29**	**0.15**	--	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.

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

J- = Data results are estimated values and may be biased low.

Table 2
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-10	SV-12	VP-A	VP-B	VP-D	RBC_{sv}	
Depth (ft bgs)	10-20	10-20	5	5	5	Residential	
Date	12/20/2023	12/20/2023	12/20/2023	12/20/2023	12/20/2023	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m^3						
Acetone	--	<2.97	**4.25**	<2.97	<2.97	--	2,100,000
Allyl Chloride	--	<0.626	<0.626	<0.626	<0.626	16	--
Benzene	--	<0.639	<0.639	<0.639	<0.639	12	970
Benzyl Chloride	--	<1.04	<1.04	<1.04	<1.04	1.9	8,000
Bromodichloromethane	--	<1.34	<1.34	<1.34	<1.34	2.5	--
Bromoform	--	<6.21	<6.21	<6.21	<6.21	85	--
Bromomethane	--	<0.776	<0.776	<0.776	<0.776	170	130,000
1,3-Butadiene	--	<4.43	<4.43	<4.43	<4.43	3.1	22,000
Carbon Disulfide	--	<0.622	<0.622	<0.622	<0.622	24,000	210,000
Carbon Tetrachloride	--	<1.26	<1.26	<1.26	<1.26	16	63,000
Chlorobenzene	--	<0.924	<0.924	<0.924	<0.924	1700	--
Chloroethane	--	<0.528	<0.528	<0.528	<0.528	140,000	1,300,000
Chloroform	--	<0.973	<0.973	<0.973	<0.973	4.1	16,000
Chloromethane	--	<0.413	<0.413	<0.413	<0.413	3,100	33,000
2-Chlorotoluene	--	<1.03	<1.03	<1.03	<1.03	--	--
Cyclohexane	--	<0.689	<0.689	<0.689	<0.689	210000	--
Dichlorodifluoromethane	--	<1.7	<1.7	<1.7	<1.7	--	--
1,2-Dibromoethane	--	<1.54	<1.54	<1.54	<1.54	0.16	--
1,2-Dichlorobenzene	--	<1.2	<1.2	<1.2	<1.2	7000	--
1,3-Dichlorobenzene	--	<1.2	<1.2	<1.2	<1.2	--	--
1,4-Dichlorobenzene	--	<1.2	<1.2	<1.2	<1.2	8.5	400,000
1,2-Dichloroethane	--	<0.81	<0.81	<0.81	<0.81	3.6	--
1,1-Dichloroethane	--	<0.802	<0.802	<0.802	<0.802	59	--
1,1-Dichloroethene	--	<0.793	<0.793	<0.793	<0.793	7,000	6,700
cis-1,2-Dichloroethene	--	<0.793	<0.793	<0.793	<0.793	1,400	--
trans-1,2-Dichloroethene	--	<0.793	<0.793	<0.793	<0.793	1,400	26,000
1,2-Dichloropropane	--	<0.924	<0.924	<0.924	<0.924	25	7,700
cis-1,3-Dichloropropene	--	<0.908	<0.908	<0.908	<0.908	--	--
trans-1,3-Dichloropropene	--	<0.908	<0.908	<0.908	<0.908	--	--
1,4-Dioxane	--	<2.27	<2.27	<2.27	<2.27	19	240,000
Ethanol	--	<4.71	**9.48 J+**	<4.71	**5.30 J+**	--	--
Ethylbenzene	--	<0.867	<0.867	<0.867	<0.867	37	730,000
4-Ethyltoluene	--	<0.982	<0.982	<0.982	<0.982	--	--
Trichlorofluoromethane	--	**1.15**	**1.47**	**1.15**	**1.26**	--	--
Dichlorodifluoromethane	--	**1.72**	**2.65**	**1.87**	**1.88**	3,500	--
1,1,2-Trichlorotrifluoroethane	--	<1.53	<1.53	<1.53	<1.53	170,000	--
1,2-Dichlorotetrafluoroethane	--	<1.4	<1.4	<1.4	<1.4	--	--
Heptane	--	<0.818	<0.818	<0.818	<0.818	14,000	--
Hexachloro-1,3-butadiene	--	<6.73	<6.73	<6.73	<6.73	4.3	--
n-Hexane	--	<2.22	<2.22	<2.22	<2.22	24,000	--

Please see notes at the end of the table.

Table 2
Soil Vapor Analytical Results – Residential
Former Ellis Dry Cleaners

Sample Location	SV-10	SV-12	VP-A	VP-B	VP-D	RBC_{sv}	
Depth (ft bgs)	10-20	10-20	5	5	5	Residential	
Date	12/20/2023	12/20/2023	12/20/2023	12/20/2023	12/20/2023	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m^3						
Isopropylbenzene	--	<0.983	<0.983	<0.983	<0.983	14,000	--
Methylene Chloride	--	**0.733**	**0.882**	<0.694	<0.694	3,400	70,000
Methyl Butyl Ketone	--	<5.11	<5.11	<5.11	<5.11	1,000	--
2-Butanone (MEK)	--	<3.69	<3.69	<3.69	<3.69	170,000	170,000
4-Methyl-2-pentanone (MIBK)	--	<5.12	<5.12	<5.12	<5.12	100,000	--
Methyl methacrylate	--	<0.819	<0.819	<0.819	<0.819	24,000	--
MTBE	--	<0.721	<0.721	<0.721	<0.721	360	270,000
Naphthalene	--	<3.3	<3.3	<3.3	<3.3	2.8	6,700
2-Propanol	--	<3.07	<3.07	<3.07	<3.07	7,000	110,000
Propene	--	<2.15	<2.15	<2.15	<2.15	100,000	--
n-Propylbenzene	--	<0.982	<0.982	<0.982	<0.982	35,000	--
Styrene	--	<0.851	<0.851	<0.851	<0.851	35,000	700,000
1,1,2,2-Tetrachloroethane	--	<1.37	<1.37	<1.37	<1.37	1.6	--
Tetrachloroethylene	--	**25.3**	**146**	**180**	**51.7 J**	360	1,400
Tetrahydrofuran	--	<0.59	<0.59	<0.59	<0.59	70,000	--
Toluene	--	<1.88	**5.91**	<1.88	<1.88	170,000	250,000
1,2,4-Trichlorobenzene	--	<4.66	<4.66	<4.66	<4.66	70	--
1,1,1-Trichloroethane	--	<1.09	<1.09	<1.09	<1.09	170,000	370,000
1,1,2-Trichloroethane	--	<1.09	<1.09	<1.09	<1.09	5.9	--
Trichloroethylene	--	<1.07	<1.07	<1.07	<1.07	16	70
1,2,4-Trimethylbenzene	--	<0.982	<0.982	<0.982	<0.982	2,100	--
1,3,5-Trimethylbenzene	--	<0.982	<0.982	<0.982	<0.982	2,100	--
2,2,4-Trimethylpentane	--	<0.934	<0.934	<0.934	<0.934	--	--
Vinyl Chloride	--	<0.511	<0.511	<0.511	<0.511	5.6	43,000
Vinyl Bromide	--	<0.875	<0.875	<0.875	<0.875	6.2	--
Vinyl Acetate	--	<2.22	<2.22	<2.22	<2.22	7,000	6,700
m&p-Xylene	--	<1.73	<1.73	<1.73	<1.73	3,500	8,700
o-Xylene	--	<0.867	<0.867	<0.867	<0.867	3,500	8,700
TPH (GC/MS) Low Fraction	--	<826	<826	<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

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

Location	VP-C	VP-J (5)	VP-J (15)	RBC_{sv}	
Depth (ft bgs)	5	5	15	Commercial	
Date	12/20/2023	12/20/2023	12/20/2023	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	<6.21	<6.21	<6.21	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	<0.622	<0.622	**1.29**	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	<0.689	<0.689	880,000	--
Dibromochloromethane	<1.7	<1.7	<1.7	--	--
1,2-Dibromoethane	<1.54	<1.54	<1.54	0.68	--
1,2-Dichlorobenzene	<1.2	<1.2	<1.2	29000	--
1,3-Dichlorobenzene	<1.2	<1.2	<1.2	--	--
1,4-Dichlorobenzene	<1.2	<1.2	<1.2	37	1,200,000
1,2-Dichloroethane	<0.81	<0.81	<0.81	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	**1.72**	<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	**10.1 J+**	<4.71	--	--
Ethylbenzene	<0.867	<0.867	<0.867	160	2,200,000
4-Ethyltoluene	<0.982	<0.982	<0.982	--	--
Trichlorofluoromethane	**1.55**	**1.45**	**1.12**	--	--
Dichlorodifluoromethane	**1.51**	**1.83**	**2.08**	15,000	--
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	730,000	--
1,2-Dichlorotetrafluoroethane	<1.4	<1.4	<1.4	--	--
Heptane	<0.818	<0.818	<0.818	58,000	--
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	19.0	--
n-Hexane	<2.22	<2.22	<2.22	100,000	--

Please see notes at the end of the table.

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

Location	VP-C	VP-J (5)	VP-J (15)	RBC_{sv}	
Depth (ft bgs)	5	5	15	Commercial	
Date	12/20/2023	12/20/2023	12/20/2023	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m^3				
Isopropylbenzene	<0.983	<0.983	<0.983	58,000	--
Methylene Chloride	<0.694	**1.21**	<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	--
MTBE	<0.721	<0.721	<0.721	1,600	800,000
Naphthalene	<3.3	<3.3	<3.3	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	<0.851	<0.851	<0.851	150,000	2,100,000
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	7.1	--
Tetrachloroethylene	**221**	**3.84**	**492**	1,600	4,000
Tetrahydrofuran	<0.59	<0.59	<0.59	290,000	--
Toluene	**3.30**	<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	--
Trichloroethylene	<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.

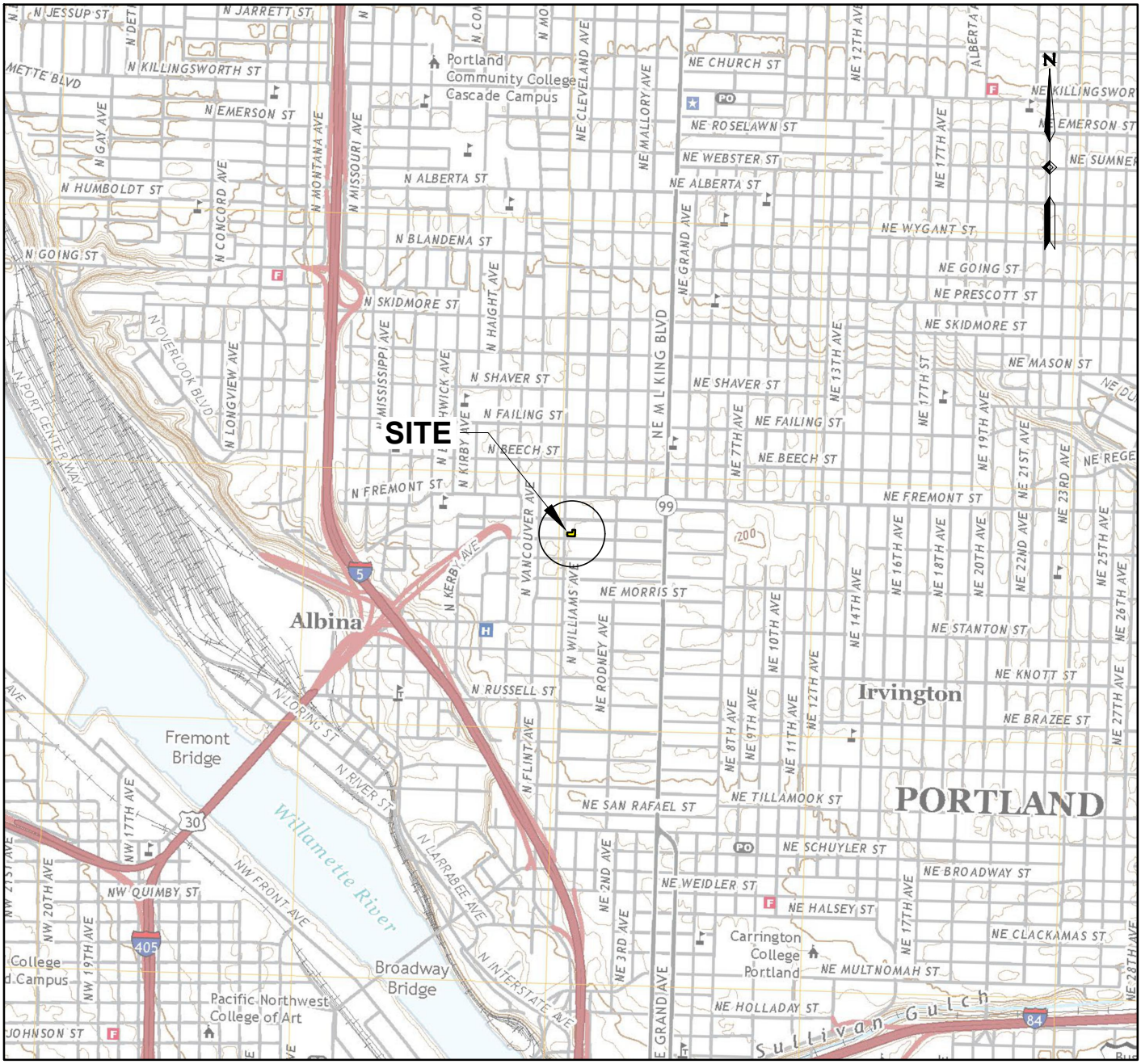
VOCs = Volatile organic compounds.

-- = Not available.

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

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

J = Data results are estimated values.



Portland, Oregon

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

OREGON

Site Location Map

Air Assessment Report - December 2023 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

Apex Companies, LLC 15618 SW 72nd Avenue Tigard, Oregon 97224	Project Number: 320002061-02	Drawn: JP	Approved: CO	Figure 1
	March 2024			

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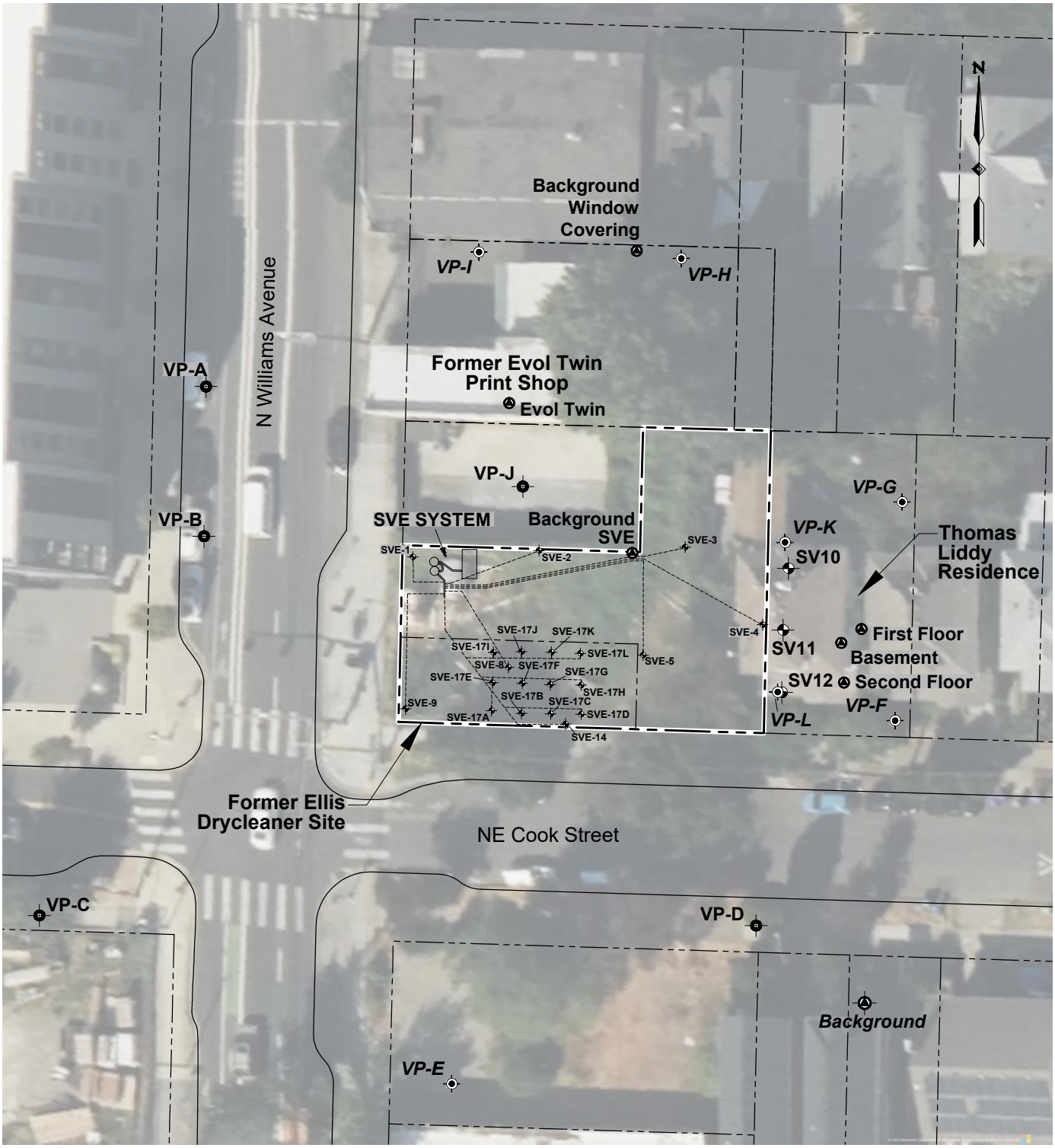

Legend:

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 - December 2023 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
320002061-02	JP	CO	**2**

March 2024

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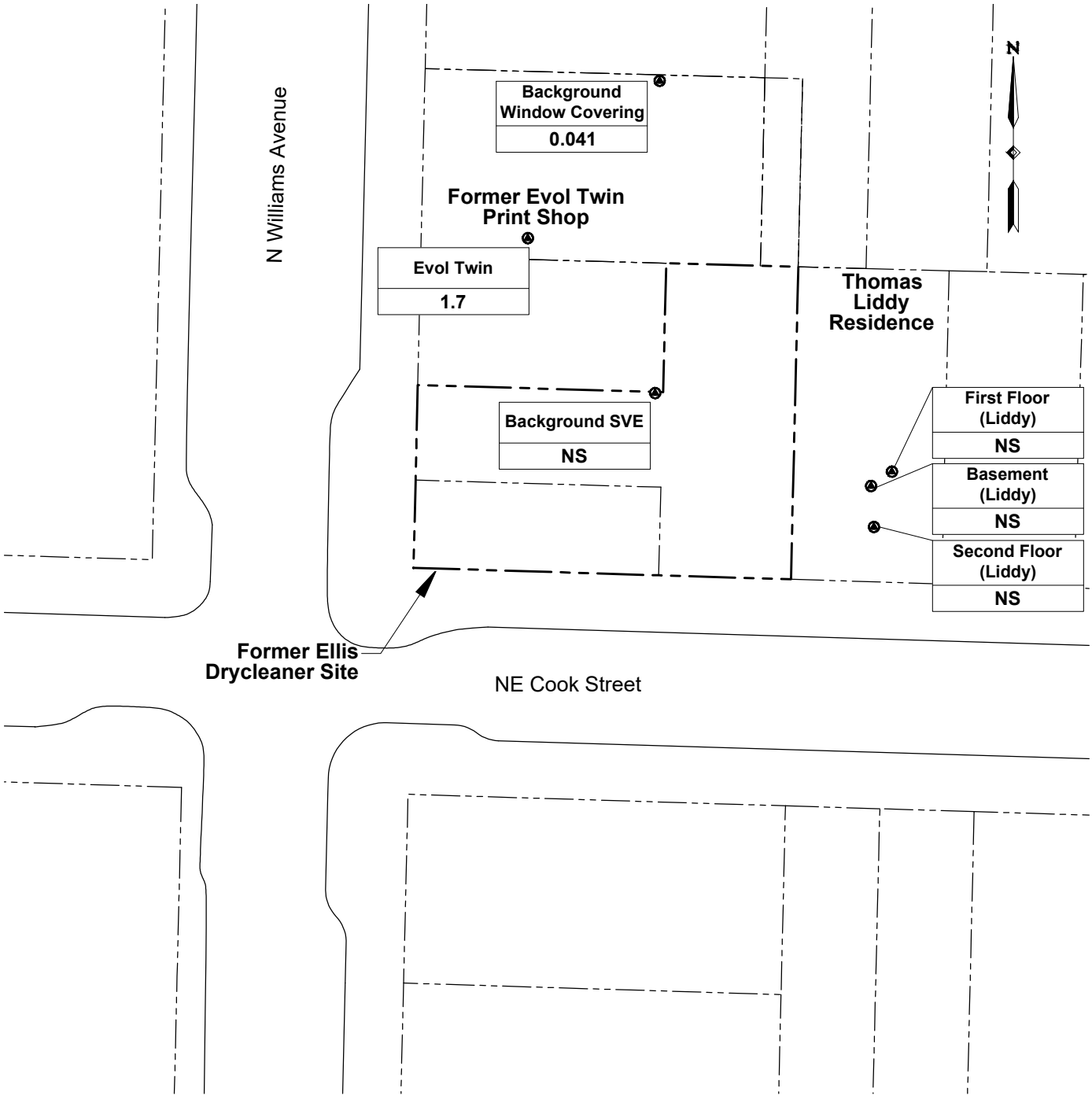

Legend:

Basement Ambient Air Sample Location

Background Window Covering / **0.041** Sample Identification; Tetrachloroethene (PCE) Concentration in Micrograms per Cubic Meter ($\mu g/m^3$)

NS = Not Sampled

0 40 80

Scale in Feet

PCE Concentrations in Ambient Air

Air Assessment Report - December 2023 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
320002061-02	JP	CO	3

March 2024

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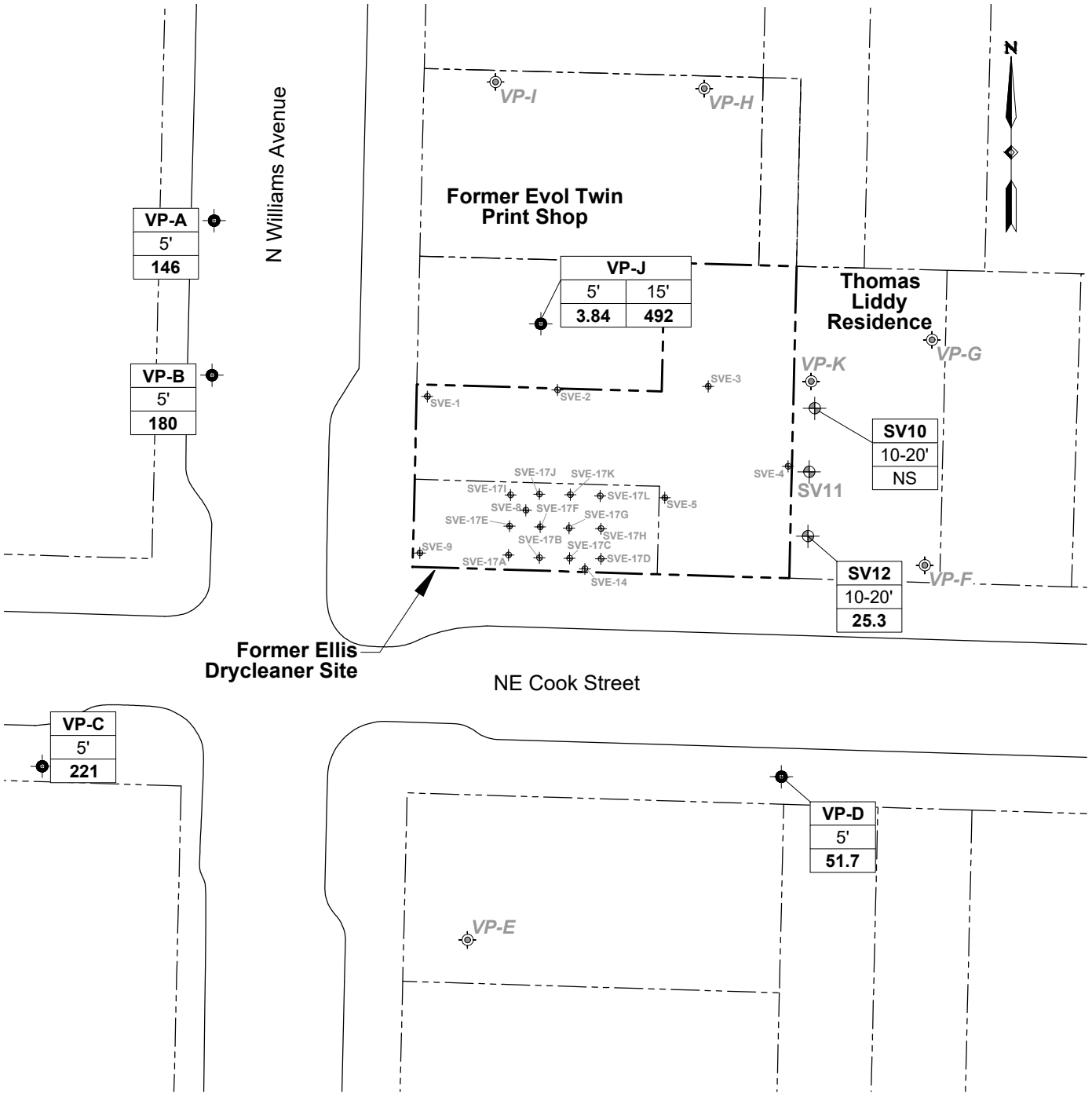

Legend:

- **VP-A** — Soil Gas Sample Point Location
- ***VP-E*** — Historical Soil Gas Sample Location
- SV10 — SVE Well Location
- **SV12** — Sample Identification
- 10-20' — Depth of Sample in Feet
- **25.3** — 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 - December 2023 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

Apex Companies, LLC 15618 SW 72nd Avenue Tigard, Oregon 97224	Project Number: 320002061-02	Drawn: JP	Approved: CO	Figure 4
	March 2024			

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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 December 2023 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
L1691283	December 23, 2023	Soil Vapor Sampling
2401620	January 7, 2024	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.
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 145 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. The reporting limit was 1.54 µg/m^3 compared to the chronic residential RBC of 0.16 µg/m^3 and chronic commercial RBC of 0.68 µg/m^3. 1,2-Dibromoethane has not been detected in any historical samples and is not a target contaminant 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.

For soil vapor analysis, ethanol was detected in the method blank of analytical batch WG2199959. Ethanol was detected in soil vapor samples VP-J (5), VP-A, and VP-D at concentrations less than ten times the concentration in the method blank. These results may have had significant contribution from laboratory contamination and results are considered estimated and biased high (J+ flagged).

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 145 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.

A field duplicate was collected from VP-D. The RPD between the primary and duplicate sample for VP-D were below the 30 percent limit with the exception of tetrachloroethylene. This result is considered estimated (J flagged).

5.0 Conclusion

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

eurofins | Air Toxics

1/7/2024
Ms. Carmen Owens
Apex Companies, LLC
15618 SW 72nd Ave

Tigard OR 97224

Project Name: Former Ellis Dry Cleaners
Project #: 2061-01
Workorder #: 2401620

Dear Ms. Carmen Owens

The following report includes the data for the above referenced project for sample(s) received on 12/28/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) 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 #: 2401620

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:	503-924-4704	**P.O. #**	320002061-02
FAX:	503-924-4707	**PROJECT #**	2061-01 Former Ellis Dry Cleaners
DATE RECEIVED:	01/25/2024	**CONTACT:**	Monica Tran
DATE COMPLETED:	02/07/2024		

FRACTION #	NAME	TEST
01A	Background Window Covering	Passive RAD 145 (TD)
02A	Evol Twin	Passive RAD 145 (TD)
03A	Lab Blank	Passive RAD 145 (TD)
04A	CCV	Passive RAD 145 (TD)
05A	LCS	Passive RAD 145 (TD)
05AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 01/07/2024

Technical Director

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

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Apex Companies, LLC
Workorder# 2401620

Two Radiello 145 (VOC TD) samples were received on December 28, 2028. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

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.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 17304 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

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

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

eurofins | Air Toxics

Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: Background Window Covering

Lab ID#: 2401620-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.021	45	0.095
Benzene	20	0.042	240	0.50
Toluene	50	0.096	270	0.53
Tetrachloroethene	5.0	0.011	18	0.041
Ethyl Benzene	10	0.022	49	0.11
m,p-Xylene	20	0.043	150	0.33
o-Xylene	10	0.024	62	0.15
Styrene	10	0.021	27	0.058

Client Sample ID: Evol Twin

Lab ID#: 2401620-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.021	53	0.11
Benzene	20	0.042	200	0.42
Trichloroethene	5.0	0.011	5.6	0.012
Toluene	50	0.096	680 E	1.3 E
Tetrachloroethene	5.0	0.011	730 E	1.7 E
Ethyl Benzene	10	0.022	120	0.28
m,p-Xylene	20	0.043	410	0.88
o-Xylene	10	0.023	120	0.29
Styrene	10	0.021	380	0.80

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Client Sample ID: Background Window Covering

Lab ID#: 2401620-01A

PASSIVE RAD 145 (TD)

File Name:	**6020616**	**Date of Extraction: NA**	**Date of Collection: 12/27/23 9:54:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/24 08:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.029	Not Detected	Not Detected
Cyclohexane	10	0.021	45	0.095
Benzene	20	0.042	240	0.50
Trichloroethene	5.0	0.011	Not Detected	Not Detected
Toluene	50	0.096	270	0.53
Tetrachloroethene	5.0	0.011	18	0.041
Ethyl Benzene	10	0.022	49	0.11
m,p-Xylene	20	0.043	150	0.33
o-Xylene	10	0.024	62	0.15
Styrene	10	0.021	27	0.058

Temperature = 77.0F , duration time = 17296 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	107	70-130

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Client Sample ID: Evol Twin

Lab ID#: 2401620-02A

PASSIVE RAD 145 (TD)

File Name:	**6020617**	**Date of Extraction: NA**	**Date of Collection: 12/27/23 9:57:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/24 08:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.029	Not Detected	Not Detected
Cyclohexane	10	0.021	53	0.11
Benzene	20	0.042	200	0.42
Trichloroethene	5.0	0.011	5.6	0.012
Toluene	50	0.096	680 E	1.3 E
Tetrachloroethene	5.0	0.011	730 E	1.7 E
Ethyl Benzene	10	0.022	120	0.28
m,p-Xylene	20	0.043	410	0.88
o-Xylene	10	0.023	120	0.29
Styrene	10	0.021	380	0.80

E = Exceeds instrument calibration range.

Temperature = 77.0F , duration time = 17304 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	114	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2401620-03A

PASSIVE RAD 145 (TD)

File Name:	**6020609**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/24 03:17 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.029	Not Detected	Not Detected
Cyclohexane	10	0.021	Not Detected	Not Detected
Benzene	20	0.042	Not Detected	Not Detected
Trichloroethene	5.0	0.011	Not Detected	Not Detected
Toluene	50	0.096	Not Detected	Not Detected
Tetrachloroethene	5.0	0.011	Not Detected	Not Detected
Ethyl Benzene	10	0.022	Not Detected	Not Detected
m,p-Xylene	20	0.043	Not Detected	Not Detected
o-Xylene	10	0.023	Not Detected	Not Detected
Styrene	10	0.021	Not Detected	Not Detected

Temperature = 77.0F , duration time = 17304 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV
Lab ID#: 2401620-04A
PASSIVE RAD 145 (TD)

File Name:	**6020606**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/24 01:32 PM**

Compound	%Recovery
1,1,1-Trichloroethane	94
Cyclohexane	103
Benzene	89
Trichloroethene	105
Toluene	95
Tetrachloroethene	86
Ethyl Benzene	110
m,p-Xylene	113
o-Xylene	116
Styrene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCS

Lab ID#: 2401620-05A

PASSIVE RAD 145 (TD)

File Name:	**6020607**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/24 02:09 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	90	60-140
Cyclohexane	101	70-130
Benzene	84	70-130
Trichloroethene	102	70-130
Toluene	93	70-130
Tetrachloroethene	84	70-130
Ethyl Benzene	107	70-130
m,p-Xylene	111	70-130
o-Xylene	112	70-130
Styrene	115	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD
Lab ID#: 2401620-05AA
PASSIVE RAD 145 (TD)

File Name:	**6020608**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/24 02:43 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	90	60-140
Cyclohexane	104	70-130
Benzene	90	70-130
Trichloroethene	101	70-130
Toluene	93	70-130
Tetrachloroethene	83	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	110	70-130
o-Xylene	113	70-130
Styrene	114	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	105	70-130

ANALYTICAL REPORT

January 04, 2024

Oregon Dept. of Env. Quality - ODEQ

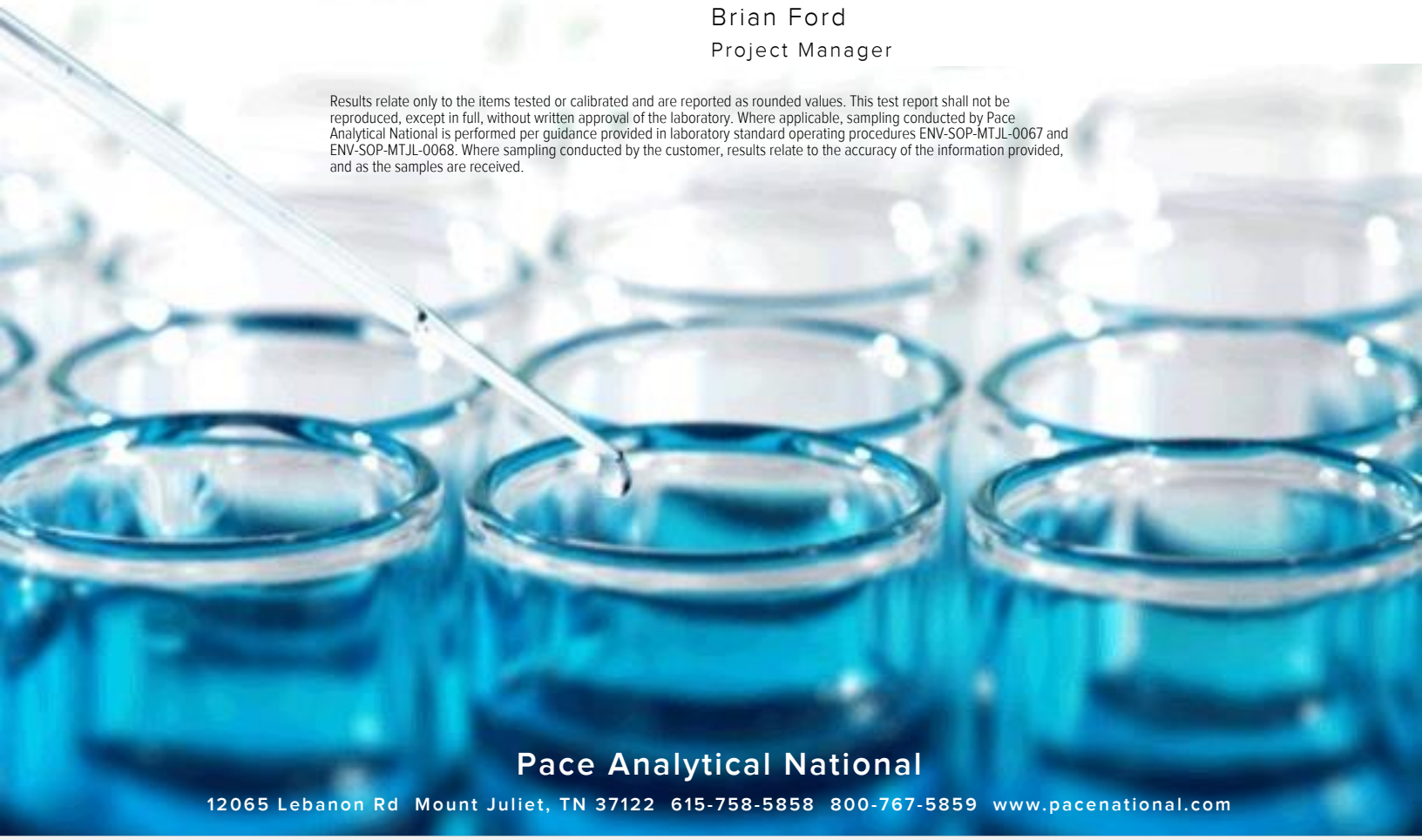
Sample Delivery Group:	L1691283
Samples Received:	12/23/2023
Project Number:	2061-01
Description:	Former Ellis Dry Cleaners

Report To: Kara Master
3150 NW 229th St., Suite 150
Hillsboro, OR 97124

Entire Report Reviewed By:

Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

VP-J (15) L1691283-01 Air

Collected by	Collected date/time	Received date/time
	12/20/23 14:35	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 18:09	01/03/24 18:09	SDS	Mt. Juliet, TN

VP-J (5) L1691283-02 Air

Collected by	Collected date/time	Received date/time
	12/20/23 14:35	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 18:43	01/03/24 18:43	SDS	Mt. Juliet, TN

VP-A L1691283-03 Air

Collected by	Collected date/time	Received date/time
	12/20/23 14:21	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 19:17	01/03/24 19:17	SDS	Mt. Juliet, TN

VP-B L1691283-04 Air

Collected by	Collected date/time	Received date/time
	12/20/23 13:58	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 19:51	01/03/24 19:51	SDS	Mt. Juliet, TN

VP-C L1691283-05 Air

Collected by	Collected date/time	Received date/time
	12/20/23 13:56	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 20:25	01/03/24 20:25	SDS	Mt. Juliet, TN

VP-D L1691283-06 Air

Collected by	Collected date/time	Received date/time
	12/20/23 13:08	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 20:59	01/03/24 20:59	SDS	Mt. Juliet, TN

SV-12 L1691283-07 Air

Collected by	Collected date/time	Received date/time
	12/20/23 15:54	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 21:33	01/03/24 21:33	SDS	Mt. Juliet, TN

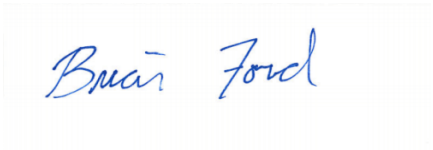
DUP L1691283-08 Air

Collected by	Collected date/time	Received date/time
	12/20/23 15:55	12/23/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2199959	1	01/03/24 22:07	01/03/24 22:07	SDS	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	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.415	1.29		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	1.12		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.420	2.08		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	72.4	492		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.5*				WG2199959

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	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	5.36	10.1	B	1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.258	1.45		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.370	1.83		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.348	1.21		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.565	3.84		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG2199959

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	1.79	4.25		1	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	5.03	9.48	B	1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.261	1.47		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.535	2.65		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.254	0.882		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	21.5	146		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	1.57	5.91		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.4*				WG2199959

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	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.204	1.15		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.379	1.87		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	26.5	180		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.8*				WG2199959

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	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.433	1.72		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.275	1.55		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.305	1.51		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	32.6	221		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	0.876	3.30		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG2199959

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	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	2.81	5.30	B	1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.225	1.26		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.380	1.88		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	7.61	51.7		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG2199959

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	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.204	1.15		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.347	1.72		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.211	0.733		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	3.72	25.3		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG2199959

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	1.77	4.21		1	WG2199959
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2199959
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2199959
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2199959
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2199959
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2199959
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2199959
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2199959
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2199959
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2199959
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2199959
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2199959
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2199959
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2199959
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2199959
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2199959
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2199959
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2199959
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2199959
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2199959
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2199959
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2199959
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2199959
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2199959
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2199959
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2199959
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2199959
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2199959
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2199959
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2199959
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2199959
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2199959
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2199959
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.235	1.32		1	WG2199959
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.379	1.87		1	WG2199959
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2199959
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2199959
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2199959
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2199959
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2199959
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2199959
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2199959
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2199959
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2199959
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2199959
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2199959
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2199959
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2199959
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2199959
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2199959
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2199959
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2199959
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2199959
Tetrachloroethylene	127-18-4	166	0.200	1.36	7.49	50.9		1	WG2199959
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2199959
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2199959

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	WG2199959
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2199959
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2199959
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2199959
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2199959
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2199959
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2199959
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2199959
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2199959
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2199959
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2199959
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2199959
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2199959
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG2199959

Method Blank (MB)

(MB) R4019534-3 01/03/24 09:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	1.16	J	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

Method Blank (MB)

(MB) R4019534-3 01/03/24 09:55

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
n-Propylbenzene	U		0.0773	0.200
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
(S) 1,4-Bromofluorobenzene	*99.6*			*60.0-140*

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

(LCS) R4019534-1 01/03/24 08:44 • (LCSD) R4019534-2 01/03/24 09:21

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	3.98	4.25	106	113	70.0-130			6.56	25
Allyl chloride	3.75	4.30	4.27	115	114	70.0-130			0.700	25
Benzene	3.75	3.81	3.81	102	102	70.0-130			0.000	25

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

(LCS) R4019534-1 01/03/24 08:44 • (LCSD) R4019534-2 01/03/24 09:21

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	3.78	3.75	101	100	70.0-152			0.797	25
Bromodichloromethane	3.75	3.62	3.69	96.5	98.4	70.0-130			1.92	25
Bromoform	3.75	3.41	3.41	90.9	90.9	70.0-130			0.000	25
Bromomethane	3.75	3.76	3.67	100	97.9	70.0-130			2.42	25
1,3-Butadiene	3.75	4.00	3.94	107	105	70.0-130			1.51	25
Carbon disulfide	3.75	3.61	3.58	96.3	95.5	70.0-130			0.834	25
Carbon tetrachloride	3.75	3.78	3.72	101	99.2	70.0-130			1.60	25
Chlorobenzene	3.75	3.60	3.56	96.0	94.9	70.0-130			1.12	25
Chloroethane	3.75	3.74	3.49	99.7	93.1	70.0-130			6.92	25
Chloroform	3.75	3.79	3.81	101	102	70.0-130			0.526	25
Chloromethane	3.75	3.94	3.88	105	103	70.0-130			1.53	25
2-Chlorotoluene	3.75	3.79	3.80	101	101	70.0-130			0.264	25
Cyclohexane	3.75	4.17	4.04	111	108	70.0-130			3.17	25
Dibromochloromethane	3.75	3.57	3.56	95.2	94.9	70.0-130			0.281	25
1,2-Dibromoethane	3.75	3.62	3.82	96.5	102	70.0-130			5.38	25
1,2-Dichlorobenzene	3.75	3.57	3.55	95.2	94.7	70.0-130			0.562	25
1,3-Dichlorobenzene	3.75	3.63	3.66	96.8	97.6	70.0-130			0.823	25
1,4-Dichlorobenzene	3.75	3.52	3.48	93.9	92.8	70.0-130			1.14	25
1,2-Dichloroethane	3.75	3.63	3.62	96.8	96.5	70.0-130			0.276	25
1,1-Dichloroethane	3.75	3.96	3.95	106	105	70.0-130			0.253	25
1,1-Dichloroethene	3.75	4.16	4.17	111	111	70.0-130			0.240	25
cis-1,2-Dichloroethene	3.75	3.81	3.86	102	103	70.0-130			1.30	25
trans-1,2-Dichloroethene	3.75	4.05	4.04	108	108	70.0-130			0.247	25
1,2-Dichloropropane	3.75	3.78	3.64	101	97.1	70.0-130			3.77	25
cis-1,3-Dichloropropene	3.75	3.78	3.87	101	103	70.0-130			2.35	25
trans-1,3-Dichloropropene	3.75	3.80	3.90	101	104	70.0-130			2.60	25
1,4-Dioxane	3.75	3.89	3.79	104	101	70.0-140			2.60	25
Ethanol	3.75	4.20	5.20	112	139	55.0-148			21.3	25
Ethylbenzene	3.75	3.80	3.86	101	103	70.0-130			1.57	25
4-Ethyltoluene	3.75	3.84	3.92	102	105	70.0-130			2.06	25
Trichlorofluoromethane	3.75	3.73	3.70	99.5	98.7	70.0-130			0.808	25
Dichlorodifluoromethane	3.75	3.78	3.76	101	100	64.0-139			0.531	25
1,1,2-Trichlorotrifluoroethane	3.75	4.05	3.98	108	106	70.0-130			1.74	25
1,2-Dichlorotetrafluoroethane	3.75	3.93	3.87	105	103	70.0-130			1.54	25
Heptane	3.75	4.14	4.03	110	107	70.0-130			2.69	25
Hexachloro-1,3-butadiene	3.75	3.53	3.54	94.1	94.4	70.0-151			0.283	25
n-Hexane	3.75	4.55	4.43	121	118	70.0-130			2.67	25
Isopropylbenzene	3.75	4.05	3.99	108	106	70.0-130			1.49	25
Methylene Chloride	3.75	3.96	3.83	106	102	70.0-130			3.34	25
Methyl Butyl Ketone	3.75	4.02	4.13	107	110	70.0-149			2.70	25

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

(LCS) R4019534-1 01/03/24 08:44 • (LCSD) R4019534-2 01/03/24 09:21

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	4.30	4.29	115	114	70.0-130			0.233	25
4-Methyl-2-pentanone (MIBK)	3.75	4.09	4.20	109	112	70.0-139			2.65	25
Methyl methacrylate	3.75	4.04	4.06	108	108	70.0-130			0.494	25
MTBE	3.75	4.28	4.22	114	113	70.0-130			1.41	25
Naphthalene	3.75	3.95	3.86	105	103	70.0-159			2.30	25
2-Propanol	3.75	4.29	4.22	114	113	70.0-139			1.65	25
Propene	3.75	4.04	3.84	108	102	64.0-144			5.08	25
n-Propylbenzene	3.75	3.89	3.86	104	103	70.0-130			0.774	25
Styrene	3.75	4.08	4.04	109	108	70.0-130			0.985	25
1,1,2,2-Tetrachloroethane	3.75	3.54	3.46	94.4	92.3	70.0-130			2.29	25
Tetrachloroethylene	3.75	3.46	3.56	92.3	94.9	70.0-130			2.85	25
Tetrahydrofuran	3.75	4.45	4.33	119	115	70.0-137			2.73	25
Toluene	3.75	3.84	3.83	102	102	70.0-130			0.261	25
1,2,4-Trichlorobenzene	3.75	3.74	3.68	99.7	98.1	70.0-160			1.62	25
1,1,1-Trichloroethane	3.75	3.80	3.84	101	102	70.0-130			1.05	25
1,1,2-Trichloroethane	3.75	3.55	3.58	94.7	95.5	70.0-130			0.842	25
Trichloroethylene	3.75	3.60	3.66	96.0	97.6	70.0-130			1.65	25
1,2,4-Trimethylbenzene	3.75	4.01	3.96	107	106	70.0-130			1.25	25
1,3,5-Trimethylbenzene	3.75	3.86	3.90	103	104	70.0-130			1.03	25
2,2,4-Trimethylpentane	3.75	4.36	4.29	116	114	70.0-130			1.62	25
Vinyl chloride	3.75	3.83	3.82	102	102	70.0-130			0.261	25
Vinyl Bromide	3.75	3.84	3.72	102	99.2	70.0-130			3.17	25
Vinyl acetate	3.75	4.37	3.96	117	106	70.0-130			9.84	25
m&p-Xylene	7.50	7.84	7.81	105	104	70.0-130			0.383	25
o-Xylene	3.75	3.95	3.87	105	103	70.0-130			2.05	25
TPH (GC/MS) Low Fraction	188	170	167	90.4	88.8	70.0-130			1.78	25
(S) 1,4-Bromofluorobenzene				*101*	*101*	*60.0-140*				

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

GLOSSARY OF TERMS

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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

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.

State of Oregon Chain of Custody – Page 1 of 2

Agency, Authorized Purchaser or Agent: Apex Companies for DEQ

Send Lab Report To:	Kara Master
Address:	Department of Environmental Quality 700 NE Multnomah St, Suite 600 Portland, OR 97232
E-mail:	Kara.E.MASTER@deq.oregon.gov
Project Name:	Former Ellis Dry Cleaners
Project #:	2061-01

Contract Laboratory Name:	Pace National
Lab Batch #:	
Invoice To:	ODEQ Business Office
Address:	700 NE Multnomah Street, Suite 600 Portland, OR. 97232
Tel. #:	(800) 452-4011

Lab Selection Criteria:
- ☐ Proximity (if TAT < 48 hrs)
- ☐ Prior work on same project
- ☒ Cost (for anticipated analyses)
- ☐ Other labs disqualified or unable to perform requested services
- ☐ Emergency work

Turn Around Time:
- ☒ 10 days (std.)
- ☐ 5 days
- ☐ 72 hours
- ☐ 48 hours
- ☐ 24 hours
- ☐ Other

Sample Preservative

1202

Requested Analysis

Sample Receipt Checklist
COC Seal Present/Intact: Y N — Airs
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 —
T/P#:

Sample ID#	Collection Date/Time	Matrix	Number of Containers	TO-15	Can #
VP-J (15')	12/20/23 - 1435	Air	1	X	24651 -01
VP-J (5')	12/20/23 - 1435	Air	1	X	15589 -02
VP-A	12/20/23 – 1421	Air	1	X	15598 -03
VP-B	12/20/23 – 1358	Air	1	X	14436 -04
VP-C	12/20/23 – 1356	Air	1	X	23236 -05
VP-D	12/20/23 – 1308	Air	1	X	~~23236~~ 6073 -06
SV-12	12/20/23 – 1554	Air	1	X	24495 -07
DUP	12/20/23 - 1555	Air	1	X	28491 -08

Notes: Report Results to: MStevens@apexcos.com; COwens@apexcos.com; Kelsi.Evans@apexcos.com; Kara.E.MASTER@deq.oregon.gov

Relinquished By: Ben Eckt	Agency/Agent: Apex Companies	Received By:	Agency/Agent:
Signature:	Time & Date: 12-22-23 1100	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By: Elijah Wilson	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date: 12/27 1000

THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #**102-1098-07** AND PRICE AGREEMENT # **[8903]**. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S &C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.

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 First Foor	Liddy First Floor	Liddy First Floor	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	7/31/2012	11/4/2013	2/3/2014	4/3/2014	5/12/2014	7/16/2014	9/15/2014
Benzene	**1.6 E**	**1.1**	**1.1**	**1.5 M**	**0.82 M**	0.58	**0.70**	**0.32**	< 0.64	**0.51**	**0.45**	**0.45**	**0.38**	**0.38**
Carbon Tetrachloride	--	--	--	--	--	--	--	**0.47**	< 1.3	**0.33**	**0.48**	**0.49**	**0.47**	**0.37**
Chloroethane	--	--	--	--	--	--	--	< 0.11	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chloroform	--	--	--	--	--	--	--	**0.27**	< 0.97	**0.27**	**0.25**	**0.33**	**0.15**	**0.12**
Chloromethane	--	--	--	--	--	--	--	**1.10**	**0.81**	**0.95**	**1.1**	**0.95**	**1.1**	**0.70**
Cyclohexane	<0.036	**0.40**	**0.44**	**0.33 J+**	**0.32 J+**	**0.36**	**0.46**	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--	< 0.15	< 1.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	--	--	--	--	--	--	--	< 0.12	< 1.2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
1,2-Dichloroethane	--	--	--	--	--	--	--	--	<0.81	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	< 0.08	< 0.80	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
1,1-Dichloroethene	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079
cis-1,2-Dichloroethene	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	**5.9**	< 0.079	< 0.079
1,2-Dichloropropane	--	--	--	--	--	--	--	< 0.14	< 0.92	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
cis-1,3-Dichloropropene	--	-	--	--	--	--	--	< 0.091	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
trans-1,3-Dichloropropene	--	--	--	--	--	--	--	< 0.14	< 0.91	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Ethylbenzene	**1.9 E**	**0.66**	**0.63**	**0.54**	**0.46**	**0.68**	**0.73**	**0.48**	< 0.87	**0.33**	**0.30**	**0.52**	**0.39**	**0.40**
Toluene	**5.4 J**	**3.1 J**	**3.0 J**	**3.1**	**3.0**	**6.1**	**6.6**	--	--	--	--	--	--	--
Styrene	**1.2 E,M**	**0.32**	**0.31**	**0.47 M**	**0.24 M**	**0.31**	**0.33**	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	< 0.14	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethylene	**0.16**	**0.99**	**0.96**	**0.57**	**0.55**	**0.16**	**0.16**	**1.8**	**15**	**12**	**13**	**1.7**	< 0.14	**0.30**
1,1,1-Trichloroethane	<0.049	<0.050	<0.050	<0.049	<0.049	<0.050	<0.050	< 0.11	< 1.1	< 0.11	< 0.11	**0.21**	< 0.11	< 0.11
1,1,2-Trichloroethane	--	--	--	--	--	--	--	< 0.16	< 1.1	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Trichloroethylene	<0.018	**0.032**	**0.033**	<0.018	<0.018	<0.018	<0.018	< 0.11	< 1.1	< 0.11	< 0.11	< 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**	--	--	--	--	--	--	--
o-Xylene	**1.9 E**	**0.73**	**0.71**	**0.52**	**0.49**	**0.70**	**0.74**	--	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	--	< 0.051	< 0.51	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051
Vinyl Acetate	--	--	--	--	--	--	--	< 0.07	< 1.7	< 0.07	< 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 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	Liddy First Floor	Liddy First Floor
Date	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	9/27/2017	11/20/2017
Benzene	**0.96**	**0.89**	**1.2**	**0.326**	**0.373**	**0.627**	**1.59**	**0.40**	**0.846**	**0.618**	**0.596**	**0.352**	**0.597**	**0.682**
Carbon Tetrachloride	**0.51**	**0.57**	**0.54**	**0.384**	**0.412**	**0.366**	< 1.26	**0.55**	**0.474**	**0.454**	**0.530**	**0.414**	**0.573**	**0.472**
Chloroethane	< 0.11	< 0.11	< 0.11	< 0.106	< 0.106	< 0.106	< 0.528	< 0.528	< 0.106	< 0.106	<0.106	<0.106	<0.106	<0.106
Chloroform	**1.0**	**0.54**	< 0.097	**0.203**	**0.234**	**0.302**	< 0.973	**0.382**	< 0.0973	**0.280**	**0.370**	**0.439**	**0.376**	**0.972**
Chloromethane	**0.91**	**1.3**	**1.4**	**0.813**	**0.880**	**1.06**	**1.63**	**1.34**	**1.20**	**1.11**	**1.49**	**1.05**	**1.39**	**1.39**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154	< 0.154	< 1.54	< 1.54	< 0.154	< 0.154	<0.154	<0.154	<0.154	<0.154
1,4-Dichlorobenzene	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120	< 0.120	< 1.20	< 1.20	< 0.120	< 0.120	**2.45**	<0.120	<0.12	<0.12
1,2-Dichloroethane	--	--	--	--	--	--	<0.81	--	--	--	--	--	<0.0810	<0.0810
1,1-Dichloroethane	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802	< 0.0802	< 0.802	< 0.802	< 0.0802	< 0.0802	<0.0802	<0.0802	<0.0802	<0.0802
1,1-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.793	< 0.793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793
cis-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	**0.138**	< 0.793	< 0.793	< 0.0793	< 0.0793	<0.0793	<0.0793	**0.104**	<0.0793
trans-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.793	< 0.793	< 0.0793	< 0.0793	<0.0793	<0.0793	<0.0793	<0.0793
1,2-Dichloropropane	< 0.14	< 0.14	< 0.14	< 0.139	< 0.139	< 0.139	< 0.924	< 0.924	< 0.139	< 0.139	<0.139	<0.139	<0.139	<0.139
cis-1,3-Dichloropropene	< 0.091	< 0.091	< 0.091	< 0.0908	< 0.0908	< 0.0908	< 0.908	< 0.908	< 0.0908	< 0.0908	<0.0908	<0.0908	<0.0908	<0.0908
trans-1,3-Dichloropropene	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136	< 0.136	< 0.908	< 0.908	< 0.136	< 0.136	<0.136	<0.136	<0.136	<0.136
Ethylbenzene	**1.3**	**0.48**	**4.8**	**0.261**	**0.272**	**0.422**	**1.19**	**0.621**	**1.57**	**0.280**	**0.517**	**1.77**	**0.331**	**0.573**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137	< 0.137	< 1.37	< 1.37	< 0.137	< 0.137	<0.137	<0.137	<0.137	<0.137
Tetrachloroethylene	**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	**0.381**	**0.256**
1,1,1-Trichloroethane	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109	< 0.109	< 1.09	< 1.09	< 0.109	< 0.109	<0.109	<0.109	<0.109	<0.109
1,1,2-Trichloroethane	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163	< 0.163	< 1.09	< 1.09	< 0.163	< 0.163	<0.163	<0.163	<0.163	<0.163
Trichloroethylene	< 0.11	**0.11**	< 0.11	< 0.107	< 0.107	< 0.107	**6.37**	< 0.107	**0.124**	< 0.107	<0.107	<0.107	**0.132**	<0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.511	< 0.511	< 0.0511	< 0.0511	<0.0511	<0.0511	<0.0511	<0.0511
Vinyl Acetate	< 0.070	< 0.070	< 0.070	< 0.0704	< 0.0704	< 0.0704	< 0.704	**0.256**	**0.440**	< 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 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	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	2/2/2022	7/18/2022
Benzene	**1.26**	**0.370**	**0.244**	**0.611**	**0.49**	**0.49**	**0.372**	**1.540**	**0.767**	--	--	**0.77 J+**	**1.2 J+**	**0.68**
Carbon Tetrachloride	**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	<0.48	<0.47	<0.106	<0.106	<0.106	--	--	--	--	--
Chloroform	**0.567**	**0.581**	**0.197**	**0.373**	**0.47J**	**0.61**	<0.0973	<0.0973	**0.662**	--	--	--	--	--
Chloromethane	**1.08**	**1.12**	**0.819**	**1.07**	**1.0**	**1.1**	**1.21**	**1.41**	**1.03**	--	--	--	--	--
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	**0.13**	**0.30**	**0.086**
1,2-Dibromoethane	<0.154	<0.154	<0.154	<0.154	<0.13	<0.13	<0.154	<0.154	<0.154	--	--	--	--	--
1,4-Dichlorobenzene	<0.12	<0.120	<0.120	<0.120	<1.8	<1.8	<0.120	<0.120	<0.120	--	--	--	--	--
1,2-Dichloroethane	**0.0971**	<0.0810	<0.0810	<0.0810	**0.10 J**	**0.095**	<0.0810	<0.0810	<0.0810	--	--	--	--	--
1,1-Dichloroethane	**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	**0.122**	<0.0793	<0.0793	<0.0793	<0.064	<0.063	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--	--	--
cis-1,2-Dichloroethene	**0.296**	<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	<0.068	<0.066	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--	--	--
1,2-Dichloropropane	<0.139	<0.139	<0.139	<0.139	<0.053	<0.052	<0.139	<0.139	<0.139	--	--	--	--	--
cis-1,3-Dichloropropene	<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	**0.209**	<0.075	<0.073	<0.136	<0.136	<0.136	--	--	--	--	--
Ethylbenzene	**0.865**	**0.666**	**0.216**	**0.348**	**1.1 J**	<0.55	**0.2**	**1.25**	**0.442**	--	--	**0.27**	**0.56**	**0.30**
Toluene	--	--	--	--	--	--	--	--	--	--	--	**0.95**	**2.6 E**	**1.6**
Styrene	--	--	--	--	--	--	--	--	--	--	--	**0.21**	**0.35**	**0.30**
1,1,2,2-Tetrachloroethane	<0.137	<0.137	<0.137	<0.137	<0.10	<0.10	<0.137	<0.137	<0.137	--	--	--	--	--
Tetrachloroethylene	**0.531**	<0.136	<0.136	**1.44**	**0.59**	<0.11	<0.136	**0.475**	<0.136	**1.0**	**0.79**	**0.042**	**0.190**	**0.044**
1,1,1-Trichloroethane	**3.21**	<0.109	<0.109	<0.109	<0.066	<0.064	<0.109	<0.109	<0.109	**0.0090**	**0.0087**	<0.057	<0.049	<0.050
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	<0.163	<0.068	<0.066	<0.163	<0.163	<0.163	--	--	--	--	--
Trichloroethylene	**5.20**	<0.107	<0.107	<0.107	<0.090	<0.088	<0.107	<0.107	<0.107	**0.025**	**0.021**	<0.021	<0.018	<0.018
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	**0.76**	**1.7**	**0.82**
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	**0.30**	**0.57**	**0.30**
Vinyl Chloride	<0.0511	<0.0511	<0.0511	<0.0511	<0.042	<0.48	<0.0511	<0.0511	<0.0511	--	--	--	--	--
Vinyl Acetate	**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 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	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	12/14/2015	3/7/2016
Benzene	**0.85**	**1.2**	**0.77**	**0.71**	**0.77**	**0.57**	**0.35**	**1.2**	**0.96**	**0.67**	**0.26**	**0.386**	**0.571**	**0.684**
Carbon Tetrachloride	--	--	--	--	< 1.3	**0.48**	**0.47**	**0.50**	**0.48**	**0.57**	**0.57**	**0.416**	**0.36**	**0.266**
Chloroethane	--	--	--	--	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.106	< 0.106	< 0.106
Chloroform	--	--	--	--	< 0.97	**1.0**	**0.31**	**0.73**	**2.4**	**0.54**	< 0.097	< 0.0973	**0.317**	< 0.0973
Chloromethane	--	--	--	--	**1.2**	**0.93**	**1.1**	**1.0**	**1.2**	**1.4**	**1.3**	**1.13**	**0.873**	**0.851**
Cyclohexane	<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	< 0.154	< 0.154
1,4-Dichlorobenzene	--	--	--	--	< 1.2	< 0.12	**0.21**	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120	< 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	< 0.0802	< 0.0802
1,1-Dichloroethene	--	--	--	--	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793
cis-1,2-Dichloroethene	--	--	--	--	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793
trans-1,2-Dichloroethene	--	--	--	--	< 0.79	**0.25**	< 0.079	< 0.079	< 0.079	**0.095**	< 0.079	< 0.0793	< 0.0793	< 0.0793
1,2-Dichloropropane	--	--	--	--	< 0.92	< 0.14	< 0.14	**4.6**	< 0.14	< 0.14	< 0.14	< 0.139	< 0.139	< 0.139
cis-1,3-Dichloropropene	--	--	--	--	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908	< 0.0908	< 0.0908
trans-1,3-Dichloropropene	--	--	--	--	< 0.91	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136	< 0.136
Ethylbenzene	**0.58**	**0.73**	**0.46**	**0.31**	< 0.87	**1.1**	**0.36**	**3.0**	**2.2**	**0.56**	**0.25**	< 0.130	**0.37**	**1.20**
Toluene	**2.6 E**	**2.9 J**	**2.3**	**1.6**	--	--	--	--	--	--	--	--	--	--
Styrene	**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	< 0.137	< 0.137
Tetrachloroethylene	**0.10**	**1.2**	**0.71**	**0.10**	**12**	**2.0**	**2.2**	**12**	**1.4**	< 0.14	< 0.14	< 0.136	**0.213**	**1.18**
1,1,1-Trichloroethane	<0.049	<0.050	<0.049	<0.050	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109	< 0.109
1,1,2-Trichloroethane	--	--	--	--	< 1.1	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163	< 0.163
Trichloroethylene	<0.018	**0.035**	<0.018	<0.018	< 1.1	< 0.11	< 0.11	**0.17**	< 0.11	< 0.11	< 0.11	< 0.107	< 0.107	**0.189**
m,p-Xylene	**1.6 E**	**2.1 E**	**1.4**	**0.9**	--	--	--	--	--	--	--	--	--	--
o-Xylene	**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	< 0.0511	< 0.0511
Vinyl Acetate	--	--	--	--	< 0.70	< 0.070	< 0.070	**0.15**	< 0.070	< 0.070	< 0.070	< 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 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	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	5/13/2019	8/19/2019
Benzene	**0.514**	**0.482**	**0.563**	**0.548**	**0.369**	**0.599**	**0.676**	**1.26**	**0.392**	**0.224**	**0.613**	**0.51**	**0.56**	**0.508**
Carbon Tetrachloride	**0.542**	**0.514**	**0.482**	**0.515**	**0.448**	**0.565**	**0.522**	**0.468**	**0.484**	**0.458**	**0.600**	**0.54**	**2.1**	**0.489**
Chloroethane	< 0.106	< 0.106	< 0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.48	<0.46	<0.106
Chloroform	**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**	<0.051	<0.0973
Chloromethane	**1.74**	**1.11**	**1.09**	**1.45**	**0.983**	**1.43**	**1.39**	**1.12**	**1.14**	**0.859**	**0.973**	**0.98**	**1.3**	**1.30**
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	<0.13	<0.12	<0.154
1,4-Dichlorobenzene	< 0.120	< 0.120	< 0.120	**4.61**	<0.120	<0.12	<0.12	<0.12	<0.120	<0.120	<0.120	<1.8	<1.8	<0.120
1,2-Dichloroethane	--	--	--	--	--	<0.0810	**0.0842**	<0.081	<0.0810	<0.0810	<0.0810	**0.099 J**	**0.11**	<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	<0.0802	<0.044	**0.042 J**	<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	<0.064	<0.061	<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	<0.049	<0.047	<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	<0.068	<0.065	<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	<0.053	**0.062 J**	<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	**0.362**	**0.069 J**	<0.063	<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	**0.199**	<0.075	<0.072	<0.136
Ethylbenzene	**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**	**1.1 J**	**0.808**
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	<0.10	<0.098	<0.137
Tetrachloroethylene	< 0.136	**0.455**	< 0.136	**0.462**	<0.136	**0.208**	**0.337**	**0.430**	<0.136	**0.313**	**1.50**	**0.66**	**0.13**	<0.136
1,1,1-Trichloroethane	< 0.109	< 0.109	< 0.109	<0.109	<0.109	<0.109	<0.109	**0.662**	<0.109	<0.109	<0.109	<0.066	**0.063 J**	<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	<0.068	<0.065	<0.163
Trichloroethylene	< 0.107	< 0.107	< 0.107	<0.107	**0.137**	<0.107	<0.107	**1.08**	<0.107	<0.107	<0.107	<0.090	<0.086	<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	<0.042	<0.47	<0.0511
Vinyl Acetate	**0.0817**	**0.0951**	< 0.0704	**0.171**	<0.0704	**0.0769**	<0.0704	**0.197**	<0.0704	<0.0704	<0.0704	<0.49	<0.040	<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	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams
Date	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	7/30/2012	7/31/2012	8/12/2013
Benzene	**1.33**	**0.776**	--	--	**0.68 J+**	**1.2 J+**	**0.58**	**1.3 E**	**1.4**	**1.5**	**1.3**	**0.67**	**0.48**	**0.77**
Carbon Tetrachloride	**0.400**	**0.523**	--	--	--	--	--	--	--	--	--	**0.44**	**0.26**	**0.45**
Chloroethane	<0.106	<0.106	--	--	--	--	--	--	--	--	--	< 0.11	< 0.11	< 0.11
Chloroform	**2.60**	**0.642**	--	--	--	--	--	--	--	--	--	**0.15**	< 0.097	< 0.097
Chloromethane	**1.23**	**1.09**	--	--	--	--	--	--	--	--	--	**1.4**	**1.2**	**0.91**
Cyclohexane	--	--	--	--	**0.13**	**0.28**	**0.068**	**0.036**	**0.38**	**0.24 J+**	**0.13**	--	--	--
1,2-Dibromoethane	<0.154	<0.154	--	--	--	--	--	--	--	--	--	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	<0.120	<0.120	--	--	--	--	--	--	--	--	--	< 0.12	< 0.12	< 0.12
1,2-Dichloroethane	<0.0810	<0.0810	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	<0.0802	<0.0802	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.08	< 0.08	< 0.080
1,1-Dichloroethene	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.079	< 0.079	< 0.079
cis-1,2-Dichloroethene	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.079	< 0.079	< 0.079
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.079	< 0.079	< 0.079
1,2-Dichloropropane	<0.139	<0.139	--	--	--	--	--	--	--	--	--	< 0.14	0.27	< 0.14
cis-1,3-Dichloropropene	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--	< 0.091	< 0.091	< 0.091
trans-1,3-Dichloropropene	<0.136	<0.136	--	--	--	--	--	--	--	--	--	< 0.14	< 0.14	< 0.14
Ethylbenzene	**0.780**	**0.538**	--	--	**0.44**	**0.82**	**0.38**	**1.6 E**	**0.94**	**0.74**	**0.56**	**0.65**	**0.35**	**0.42**
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	<0.137	<0.137	--	--	--	--	--	--	--	--	--	< 0.14	< 0.14	< 0.14
Tetrachloroethylene	**0.483**	<0.136	**0.87**	**1.3**	**0.04**	**0.20**	**0.035**	**0.082**	**1.4**	**1.1**	**0.1**	< 0.14	< 0.14	< 0.14
1,1,1-Trichloroethane	<0.109	<0.109	**0.0096**	**0.010**	<0.057	<0.049	<0.050	<0.050	<0.050	<0.049	<0.050	< 0.11	< 0.11	< 0.11
1,1,2-Trichloroethane	<0.163	<0.163	--	--	--	--	--	--	--	--	--	< 0.16	< 0.16	< 0.16
Trichloroethylene	<0.107	**0.112**	**0.024**	**0.020**	<0.021	<0.018	<0.018	<0.018	**0.042**	**0.022**	<0.018	< 0.11	< 0.11	< 0.11
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	<0.0511	<0.0511	--	--	--	--	--	--	--	--	--	< 0.051	< 0.051	< 0.051
Vinyl Acetate	<0.0704	**0.0887**	--	--	--	--	--	--	--	--	--	< 0.07	< 0.07	< 0.070

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 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	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	6/16/2015	9/14/2015	12/14/2015
Benzene	**2.1**	**0.7**	**0.38**	**0.572**	< 1.3	**0.23**	**0.35**	**0.86**	**0.51**	**0.61**	**0.89**	**0.35**	**0.368**	**0.658**
Carbon Tetrachloride	**0.49**	< 1.3	**0.14**	**0.633**	< 2.5	**0.48**	**0.48**	**0.36**	**0.44**	**0.47**	**0.51**	**0.57**	**0.338**	**0.473**
Chloroethane	< 0.11	< 0.53	< 0.11	<0.106	< 2.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.106	< 0.106
Chloroform	< 0.097	< 0.97	< 0.097	<0.0973	< 1.9	< 0.097	**0.11**	**0.11**	< 0.097	< 0.097	< 0.097	**0.11**	< 0.0973	**0.105**
Chloromethane	**1.2**	< 0.41	**0.27**	**1.00**	< 1.2	**0.95**	**1.1**	**1.2**	**1.0**	**0.97**	**1.2**	**1.4**	**0.629**	**1.02**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 1.5	< 0.15	<0.154	< 3.1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154
1,4-Dichlorobenzene	< 0.12	< 1.2	< 0.12	<0.120	< 2.4	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120
1,2-Dichloroethane	--	< 0.81	--	**0.0848**	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	< 0.080	< 0.80	< 0.080	<0.0802	< 1.6	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802
1,1-Dichloroethene	< 0.079	< 0.79	< 0.079	<0.0793	< 1.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793
cis-1,2-Dichloroethene	< 0.079	< 0.79	< 0.079	<0.0793	< 1.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793
trans-1,2-Dichloroethene	< 0.079	< 0.79	< 0.079	<0.0793	< 1.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	**5.5**	< 0.079	< 0.0793	< 0.0793
1,2-Dichloropropane	< 0.14	< 0.92	< 0.14	<0.139	< 2.8	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.139	< 0.139
cis-1,3-Dichloropropene	< 0.091	< 0.91	< 0.091	**0.346**	< 1.8	< 0.091	< 0.091	< 0.091	< 0.091	**0.14**	< 0.091	< 0.091	< 0.0908	< 0.0908
trans-1,3-Dichloropropene	< 0.14	< 0.91	< 0.14	**0.178**	< 2.7	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136
Ethylbenzene	**2.5**	< 0.87	**0.25**	**0.170**	< 2.6	**0.16**	**0.42**	**0.61**	< 0.13	**0.24**	**0.40**	**0.23**	**0.285**	**0.376**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 1.4	< 0.14	<0.137	< 2.7	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137
Tetrachloroethylene	**0.16**	< 1.4	< 0.14	<0.136	**150**	< 0.14	**0.20**	**0.23**	< 0.14	< 0.14	< 0.14	< 0.14	**0.295**	**0.194**
1,1,1-Trichloroethane	< 0.11	< 1.1	< 0.11	<0.109	< 2.2	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109
1,1,2-Trichloroethane	< 0.16	< 1.1	< 0.16	<0.163	< 3.3	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163
Trichloroethylene	< 0.11	< 1.1	< 0.11	<0.107	< 2.1	< 0.11	< 0.11	**0.21**	< 0.11	**0.38**	< 0.11	< 0.11	< 0.107	< 0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	**0.066**	< 0.51	< 0.051	<0.0511	< 1.0	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511
Vinyl Acetate	**0.14**	< 0.70	< 0.070	<0.0704	< 1.4	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 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	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	11/19/2018	3/18/2019	5/13/2019
Benzene	**2.66**	**0.510**	**0.410**	**0.751**	**0.812**	**0.449**	**0.705**	**0.874**	**1.50**	**0.305**	**0.333**	**0.572**	**0.36**	**0.39**
Carbon Tetrachloride	**0.364**	**0.434**	**0.513**	**0.451**	**0.551**	**0.457**	**0.535**	**0.521**	**0.512**	**0.539**	**0.466**	**0.633**	**0.54**	**0.42**
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	<0.48	<0.46
Chloroform	< 0.0973	< 0.0973	< 0.0973	< 0.0973	<0.0973	<0.0973	<0.0973	**0.119**	**0.150**	<0.0973	**1.15**	<0.0973	<0.053	0.13
Chloromethane	**0.989**	**1.36**	**1.13**	**1.07**	**1.36**	**1.06**	**1.10**	**1.38**	**0.973**	**1.12**	**0.855**	**1.00**	**0.79**	**0.98**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.154	< 0.154	< 0.154	< 0.154	<0.154	<0.154	<0.120	<0.154	<0.154	<0.154	<0.154	<0.154	<0.13	<0.12
1,4-Dichlorobenzene	< 0.120	< 0.120	< 0.120	< 0.120	<0.12	<0.120	<0.0810	<0.12	<0.12	<0.120	<0.120	<0.120	<1.8	<1.8
1,2-Dichloroethane	--	--	--	--	--	--	<0.0810	<0.0810	**0.0846**	<0.0810	<0.0810	**0.0848**	**0.098 J**	0.089
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	<0.044	<0.042
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	<0.064	<0.061
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	**0.049 J**	<0.047
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	<0.068	<0.065
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	<0.053	<0.051
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	**0.346**	**0.068 J**	<0.063
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	**0.178**	<0.075	<0.072
Ethylbenzene	**3.42**	**0.251**	**0.203**	**0.477**	**0.626**	**0.330**	**0.506**	**0.703**	**0.799**	**0.262**	**0.200**	**0.170**	<0.56	<0.53
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	<0.10	<0.098
Tetrachloroethylene	< 0.136	< 0.136	**0.211**	< 0.136	**0.356**	**0.425**	**0.149**	<0.136	**0.252**	**0.606**	**12.8**	<0.136	**1.9**	**3.1**
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	<0.066	<0.063
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	<0.068	<0.065
Trichloroethylene	< 0.107	< 0.107	< 0.107	< 0.107	<0.107	<0.107	**0.121**	<0.107	**0.501**	<0.107	**0.181**	<0.107	<0.090	**0.15**
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	<0.042	<0.47
Vinyl Acetate	< 0.0704	< 0.0704	< 0.0704	< 0.0704	<0.0704	<0.0704	<0.0704	<0.0704	**0.104**	<0.0704	<0.0704	<0.0704	<0.49	<0.040

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 SVE	Background SVE
Date	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	12/27/2023	11/4/2013	4/3/2014
Benzene	**0.229**	**0.831**	**0.795**	--	**0.84 J+**	**1.0 J+**	**0.71**	**0.96 E**	**1.1**	**0.86**	**1.00**	**0.50**	**0.83**	< 0.64
Carbon Tetrachloride	**0.488**	**0.470**	**0.576**	--	--	--	--	--	--	--	--	--	< 1.3	< 1.3
Chloroethane	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--	--	< 0.53	< 0.53
Chloroform	<0.0973	<0.0973	<0.0973	--	--	--	--	--	--	--	--	--	< 0.97	< 0.97
Chloromethane	**1.06**	**0.86**	**1.02**	--	--	--	--	--	--	--	--	--	**0.87**	**0.99**
Cyclohexane	--	--	--	--	**0.12**	**0.22**	**0.066**	**0.11**	**0.35**	**0.16 J+**	**0.09**	**0.095**	--	--
1,2-Dibromoethane	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--	--	< 1.5	< 1.5
1,4-Dichlorobenzene	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--	--	< 1.2	< 1.2
1,2-Dichloroethane	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--	--	<0.81	<0.81
1,1-Dichloroethane	<0.0802	<0.0802	<0.0802	<0.0087	--	--	--	--	--	--	--	--	< 0.80	< 0.80
1,1-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	< 0.79	< 0.79
cis-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	< 0.79	< 0.79
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	< 0.79	< 0.79
1,2-Dichloropropane	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--	--	< 0.92	< 0.92
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--	< 0.91	< 0.91
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--	--	< 0.91	< 0.91
Ethylbenzene	<0.130	**0.339**	**0.447**	--	**0.22**	**0.21**	**0.20**	**0.45**	**0.40**	**0.22**	**0.27**	**0.11**	< 0.87	< 0.87
Toluene	--	--	--	--	**0.79**	**1.1**	**0.75**	**1.9 E**	**1.8 E**	**0.86**	**1.00**	**0.53**	--	--
Styrene	--	--	--	--	**0.22**	**0.14**	**0.19**	**0.33**	**0.19**	**0.16 J+**	**0.27 J+**	**0.058**	--	--
1,1,2,2-Tetrachloroethane	<0.137	<0.137	<0.137	--	--	--	--	--	--	--	--	--	< 1.4	< 1.4
Tetrachloroethylene	<0.136	<0.136	**0.156**	**0.084**	**0.033**	**0.140**	**0.036**	**0.089**	**0.13**	**0.079**	**0.062**	**0.041**	< 1.4	< 1.4
1,1,1-Trichloroethane	<0.109	<0.109	<0.109	<0.0087	<0.058	<0.049	<0.048	<0.049	<0.050	<0.049	<0.050	<0.029	< 1.1	< 1.1
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--	--	< 1.1	< 1.1
Trichloroethylene	<0.107	**0.113**	<0.107	**0.024**	<0.021	<0.018	<0.018	<0.018	**0.032**	<0.018	<0.018	<0.011	< 1.1	< 1.1
m,p-Xylene	--	--	--	--	**0.57**	**0.60**	**0.52**	**1.2 E**	**1.2**	**0.6**	**0.7**	**0.33**	--	--
o-Xylene	--	--	--	--	**0.24**	**0.24**	**0.21**	**0.47**	**0.48**	**0.25**	**0.28**	**0.15**	--	--
Vinyl Chloride	<0.0511	<0.0511	<0.0511	--	--	--	--	--	--	--	--	--	< 0.51	< 0.51
Vinyl Acetate	<0.0704	<0.0704	<0.0704	--	--	--	--	--	--	--	--	--	< 0.70	< 0.70

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	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	9/12/2016	12/12/2016	3/30/2017	6/26/2017
Benzene	**0.22**	**0.28**	**1.2**	**0.61**	**0.96**	**0.51**	**0.386**	**0.726**	**0.722**	**3.31**	**0.433**	**0.563**	**0.919**	**0.348**
Carbon Tetrachloride	**0.48**	**0.46**	**0.44**	**0.48**	**0.57**	**0.47**	**0.371**	**0.424**	**0.358**	**0.431**	**0.519**	**0.460**	**0.538**	**0.436**
Chloroethane	< 0.11	< 0.11	< 0.11	< 0.11	**0.14**	< 0.11	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	<0.106	<0.106
Chloroform	< 0.097	**0.13**	< 0.097	< 0.097	< 0.097	< 0.097	< 0.0973	**0.0992**	< 0.0973	< 0.0973	< 0.0973	< 0.0973	<0.0973	<0.0973
Chloromethane	**0.93**	**1.0**	**0.85**	**1.3**	**1.6**	**1.1**	**0.792**	**0.905**	**0.979**	**1.29**	**1.08**	**0.985**	**1.43**	**0.965**
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154	< 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	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	<0.481	<0.120
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802	< 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	< 0.0793	< 0.0793	< 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	< 0.0793	< 0.0793	< 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	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	<0.0793	<0.0793
1,2-Dichloropropane	< 0.14	< 0.14	< 0.14	< 0.14	**0.88**	< 0.14	< 0.139	< 0.139	< 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	< 0.0908	< 0.0908	< 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	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	<0.136	<0.136
Ethylbenzene	**0.33**	**0.33**	**0.56**	**0.16**	**0.36**	**0.74**	**0.201**	**0.334**	**0.714**	**2.27**	**0.213**	**0.202**	**0.711**	**0.561**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	<0.55	<0.137
Tetrachloroethylene	**0.81**	**0.14**	**0.29**	< 0.14	< 0.14	**0.18**	**0.197**	**0.479**	**0.346**	**0.19 M**	**0.272**	< 0.136	**0.677**	**0.474**
1,1,1-Trichloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109	< 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	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	<0.163	<0.163
Trichloroethylene	< 0.11	< 0.11	< 0.11	< 0.11	**0.11**	< 0.11	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	<0.107	<0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	**0.0717**	<0.0511
Vinyl Acetate	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	**0.13**	< 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	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	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	2/24/2020	11/3/2020	1/25/2021	8/31/2021
Benzene	**1.01**	**0.869**	**1.56**	**0.376**	**0.230**	**0.647**	**0.35**	**0.38**	**0.315**	**0.961**	**0.671**	--	--	**0.91 J+**
Carbon Tetrachloride	**0.526**	**0.521**	**0.535**	**0.460**	**0.451**	**0.530**	**0.54**	**0.43**	**0.497**	**0.473**	**0.567**	--	--	--
Chloroethane	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.40	<0.37	<0.106	<0.106	<0.106	--	--	--
Chloroform	<0.0973	**0.126**	**0.159**	<0.0973	<0.0973	<0.0973	<0.045	**0.11**	<0.0973	<0.0973	<0.0973	--	--	--
Chloromethane	**1.10**	**1.34**	**1.03**	**1.07**	**0.812**	**0.833**	**0.84**	**0.84**	**1.06**	**0.911**	**1.16**	--	--	--
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.11**
1,2-Dibromoethane	<0.120	<0.154	<0.154	<0.154	<0.154	<0.154	<0.11	<0.10	<0.154	<0.154	<0.154	--	--	--
1,4-Dichlorobenzene	<0.0810	<0.12	<0.12	<0.120	<0.120	<0.120	<1.6	<1.4	<0.120	<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	<0.0810	--	--	--
1,1-Dichloroethane	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.0802	<0.037	<0.035	<0.0802	<0.0802	<0.0802	<0.0087	<0.0099	--
1,1-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.054	<0.050	<0.0793	<0.0793	<0.0793	<0.0087	<0.0099	--
cis-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.042	<0.039	<0.0793	<0.0793	<0.0793	<0.0087	<0.0099	--
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.057	<0.053	<0.0793	<0.0793	<0.0793	<0.0087	<0.0099	--
1,2-Dichloropropane	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	**0.046 J**	<0.042	<0.139	<0.139	<0.139	--	--	--
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	**0.329**	**0.060 J**	<0.052	<0.0908	<0.0908	<0.0908	--	--	--
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	<0.136	<0.136	**0.174**	<0.064	<0.059	<0.136	<0.136	<0.136	--	--	--
Ethylbenzene	**0.552**	**0.484**	**0.860**	**0.497**	**0.201**	**0.218**	**0.86 J**	<0.44	**0.141**	**0.380**	**0.304**	--	--	**0.24**
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.83**
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.22**
1,1,2,2-Tetrachloroethane	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.087	<0.081	<0.137	<0.137	<0.137	--	--	--
Tetrachloroethylene	**0.140**	<0.136	**0.319**	**0.748**	**0.523**	<0.136	**0.10**	**3.0**	<0.136	<0.136	<0.136	**0.11**	**0.18**	**0.038**
1,1,1-Trichloroethane	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.056	<0.052	<0.109	<0.109	<0.109	<0.0087	<0.0099	<0.058
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.057	**0.054 J**	<0.163	<0.163	<0.163	--	--	--
Trichloroethylene	**0.401**	<0.107	**0.363**	<0.107	<0.107	<0.107	<0.076	**0.083**	<0.107	**0.134**	<0.107	**0.024**	**0.019**	<0.021
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.60**
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.25**
Vinyl Chloride	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.036	<0.39	<0.0511	<0.0511	<0.0511	--	--	--
Vinyl Acetate	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.0704	<0.42	<0.033	<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
Date	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/10/2023	8/29/2023
Benzene	**0.90 J+**	**0.45**	**0.63**	**1.0**	**0.7**	**1.3**
Carbon Tetrachloride	--	--	--	--	--	--
Chloroethane	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--
Cyclohexane	**0.25**	**0.074**	<0.036	**0.30**	**0.18 J+**	**0.10 J+**
1,2-Dibromoethane	--	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethene	--	--	--	--	--	--
cis-1,2-Dichloroethene	--	--	--	--	--	--
trans-1,2-Dichloroethene	--	--	--	--	--	--
1,2-Dichloropropane	--	--	--	--	--	--
cis-1,3-Dichloropropene	--	--	--	--	--	--
trans-1,3-Dichloropropene	--	--	--	--	--	--
Ethylbenzene	**0.24**	**0.16**	**0.65**	**0.33**	**0.20**	**0.30**
Toluene	**1.1**	**0.69**	**3.0 E**	**1.5**	**0.78**	**1.00**
Styrene	**0.11**	**0.15**	**1.3 E**	**0.17**	**0.13**	**0.40**
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--
Tetrachloroethylene	**0.18**	**0.059**	**1.1**	**0.14**	**0.089**	**0.240**
1,1,1-Trichloroethane	<0.049	<0.048	<0.050	<0.050	<0.049	<0.050
1,1,2-Trichloroethane	--	--	--	--	--	--
Trichloroethylene	<0.018	<0.018	<0.018	**0.032**	<0.018	<0.018
m,p-Xylene	**0.28**	**0.47**	**1.4 E**	**0.96**	**0.56**	**0.67**
o-Xylene	**0.11**	**0.19**	**0.60**	**0.42**	**0.24**	**0.29**
Vinyl Chloride	--	--	--	--	--	--
Vinyl Acetate	--	--	--	--	--	--

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
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
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**
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**
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
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**
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**
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
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
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
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
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
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
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
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
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
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**
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
Tetrachloroethylene	**0.27**	**2.7**	**26**	**19**	**67**	**100**	**16**	**7.5**	**16**	**8.8**	**0.88**	**9.5**	**2.2**	**0.23**
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
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
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
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
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

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
Date	9/14/2015	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	**0.323**	**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	**0.391**	**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	<0.106	**0.539**	<0.106	<0.106	<0.106
Chloroform	< 0.0973	**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	**0.774**	**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	<0.154
1,4-Dichlorobenzene	< 0.120	< 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	<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	**0.204**	<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	<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	**0.389**
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	<0.136	**0.212**
Ethylbenzene	**0.248**	**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	< 0.137	< 0.550	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137
Tetrachloroethylene	**1.51**	**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	<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	**0.113**	<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	<0.0511
Vinyl Acetate	< 0.0704	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
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
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**
Carbon Tetrachloride	**0.59**	**0.55**	**0.491**	**0.481**	**0.568**	--	--	--	--	--	--	--	--
Chloroethane	<0.42	<0.46	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--
Chloroform	**0.90 J**	**0.70**	<0.0973	<0.0973	<0.0973	--	--	--	--	--	--	--	--
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**
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	--	--	--	--	--	--	--	--
1,2-Dichloroethane	**0.12 J**	**0.13**	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--
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**
Toluene	--	--	--	--	--	--	**2.1 E**	**2.2 E**	**2.8 E**	**2.1 E**	**2.7 J**	**6.3 J-**	**1.3**
Styrene	--	--	--	--	--	--	**0.36**	**0.35**	**1.7**	**0.51**	**0.83**	**2.70**	**0.80**
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**
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
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**
m,p-Xylene	--	--	--	--	--	--	**1.1**	**1.5**	**2.8 E**	**1.3 E**	**1.7**	**2.6**	**0.88**
o-Xylene	--	--	--	--	--	--	**0.54**	**0.61**	**1.3**	**0.53**	**0.72**	**0.77**	**0.29**
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	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A
Depth (ft bgs)	10-20	10-20	10-20	10-20	10-20	10-20	5	5	5	5	5	5
Date	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023	12/20/2023	5/12/2014	7/16/2014	9/15/2014	3/16/2015	12/14/2015	3/7/2016
Acetone	**8.39**	<2.97	<2.97	**3.59**	<1.39	<2.97	**31**	< 12	**11**	**4.3**	**45.9**	**4.72**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626	< 2.5	< 2.5	< 0.63	< 0.63	< 0.626	< 0.626
Benzene	<0.639	<0.639	**0.754**	<0.639	<0.228	<0.639	< 2.6	< 2.6	< 0.64	**0.89**	**1.38**	< 0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04	< 4.2	< 4.2	< 1.0	< 1.0	< 1.04	< 1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34	< 5.4	< 5.4	< 1.3	< 1.3	< 1.34	< 1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21	< 25	< 25	< 6.2	< 6.2	< 6.21	< 6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.381	<0.776	< 3.1	< 3.1	< 0.78	< 0.78	< 0.776	< 0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<0.230	<4.43	< 18	< 18	< 4.4	< 4.4	< 4.43	< 4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.317	<0.622	< 2.5	< 2.5	**0.65**	< 0.62	< 0.622	< 0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26	< 5.0	< 5.0	< 1.3	< 1.3	< 1.26	< 1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924	< 3.7	< 3.7	< 0.92	< 0.92	< 0.924	< 0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528	< 2.1	< 2.1	< 0.53	< 0.53	< 0.528	< 0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973	< 3.9	< 3.9	< 0.97	< 0.97	**3.64**	< 0.973
Chloromethane	<0.413	**0.516**	<0.413	<0.413	<0.213	<0.413	< 1.7	< 1.7	< 0.41	< 0.41	< 0.413	< 0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03	< 4.1	< 4.1	< 1.0	< 1.0	< 1.03	< 1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689	< 2.8	< 2.8	< 0.69	**1.3**	< 0.689	< 0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<0.618	<1.7	< 6.8	< 6.8	< 1.7	< 1.7	< 1.70	< 1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54	< 6.2	< 6.2	< 1.5	< 1.5	< 1.54	< 1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.770	<1.2	< 4.8	< 4.8	< 1.2	< 1.2	< 1.20	< 1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.09	<1.2	< 4.8	< 4.8	< 1.2	< 1.2	< 1.20	**4.49**
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.335	<1.2	< 4.8	< 4.8	< 1.2	< 1.2	< 1.20	< 1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.283	<0.81	< 3.2	< 3.2	< 0.81	< 0.81	< 0.810	< 0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.290	<0.802	< 3.2	< 3.2	< 0.80	< 0.80	< 0.802	< 0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.302	<0.793	< 3.2	< 3.2	< 0.79	< 0.79	< 0.793	< 0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.311	<0.793	< 3.2	< 3.2	< 0.79	< 0.79	< 0.793	< 0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.267	<0.793	**4.0**	< 3.2	< 0.79	< 0.79	< 0.793	< 0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.351	<0.924	< 3.7	< 3.7	< 0.92	< 0.92	< 0.924	< 0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.313	<0.908	< 3.6	< 3.6	< 0.91	< 0.91	< 0.908	< 0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.331	<0.908	< 3.6	< 3.6	< 0.91	< 0.91	< 0.908	< 0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.300	<2.27	< 2.9	< 2.9	< 0.72	< 0.72	< 0.721	< 0.721
Ethanol	**13.6**	<2.36	**2.75**	**5.19 J+**	**6.13 J+**	<4.71	**14**	< 4.8	**11**	**16 M**	**7.78**	**14.5**
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867	< 3.5	< 3.5	**1.3**	**1.5**	**1.34**	**1.98**
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982	< 3.9	< 3.9	**1.1**	**1.4**	< 0.982	4.54
Trichlorofluoromethane	**1.80**	**1.42**	**1.49**	**1.43**	**1.25**	**1.15**	**4.8**	< 4.5	**4.7**	**3.8**	**1.97**	**2.39**
Dichlorodifluoromethane	**2.75**	**2.39**	**2.69**	**2.32**	**2.08**	**1.72**	**5.4**	**5.9**	**5.4**	**3.6**	**2.98**	**2.79**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<0.608	<1.53	< 6.1	< 6.1	< 1.5	< 1.5	< 1.53	< 1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<0.622	<1.4	< 5.6	< 5.6	< 1.4	< 1.4	< 1.40	< 1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.425	<0.818	< 3.3	< 3.3	< 0.82	**1.4**	**1.47**	**0.934**
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<1.12	<6.73	< 27	< 27	< 6.7	< 6.7	< 6.73	< 6.73
n-Hexane	<2.22	<2.22	<2.22	<2.22	<0.726	<2.22	< 2.8	< 2.8	< 0.71	**1.9**	**1.59**	**0.927**
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983	< 3.9	< 3.9	< 0.98	< 0.98	< 0.983	< 0.983
Methylene Chloride	**0.715**	<0.694	<0.694	<0.694	<0.340	**0.733**	**5.6**	< 2.8	< 0.69	< 0.69	< 0.694	< 0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<0.544	<5.11	< 20	< 20	< 5.1	< 5.1	< 5.11	< 5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<0.240	<3.69	< 15	< 15	< 3.7	**4.7**	**22.2**	**4.12**
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<0.313	<5.12	< 20	< 20	< 5.1	< 5.1	< 5.12	< 5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819	< 3.3	< 3.3	< 0.82	< 0.82	< 0.819	< 0.819
MTBE	<0.721	<0.721	<0.721	<0.721	**1.56**	<0.721	< 2.9	< 2.9	< 0.72	< 0.72	< 0.721	< 0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<1.83	<3.3	< 13	< 13	**6.3**	< 3.3	< 3.30	< 3.30
2-Propanol	**38.3**	<3.07	<3.07	<3.07	<0.649	<3.07	< 12	< 12	**4.4**	< 3.1	**8.95**	**16.3**
Propene	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15	< 2.8	< 2.8	< 0.69	< 0.69	< 0.689	< 0.689
n-Propylbenzene	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982	--	--	--	--	--	--
Styrene	<0.851	**1.18**	<0.851	<0.851	<0.335	<0.851	< 3.4	< 3.4	< 0.85	< 0.85	< 0.851	**2.62**
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<0.511	<1.37	< 5.5	< 5.5	< 1.4	< 1.4	< 1.37	< 1.37
Tetrachloroethylene	**3.02**	**29.8**	**208**	**13.9**	**33.5**	**25.3**	**7,500**	**8,100**	**8,100**	**2,400**	**47.2**	**1140**
Tetrahydrofuran	<0.590	<0.590	<0.590	<0.590	**3.33**	<0.59	< 2.4	< 2.4	< 0.59	**1.7**	< 0.590	**2.75**
Toluene	**2.74**	<1.88	<1.88	<1.88	<0.328	<1.88	**3.5**	**6.8**	**3.6**	**7.2**	**6.99**	**5.44**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<1.10	<4.66	< 19	< 19	< 4.7	< 4.7	< 4.66	< 4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.400	<1.09	< 4.4	< 4.4	**1.3**	< 1.1	< 1.09	< 1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.422	<1.09	< 4.4	< 4.4	< 1.1	< 1.1	< 1.09	< 1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<0.364	<1.07	< 4.3	< 4.3	**1.9**	< 1.1	**5.59**	< 1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982	< 3.9	**12**	**3.9**	**4.9**	**2.35**	**5.67**
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.382	<0.982	< 3.9	**4.1**	**1.2**	**1.5**	< 0.982	**1.54**
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.621	<0.934	< 3.7	< 3.7	< 0.93	< 0.93	**1.05**	< 0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511	< 2.0	< 2.0	< 0.51	< 0.51	< 0.511	< 0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875	< 3.5	< 3.5	< 0.87	< 0.87	< 0.875	< 0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704 UJ	<0.408 J	<2.22 J	< 2.8	< 2.8	< 0.70	< 0.70	< 0.704	< 0.704
m&p-Xylene	**2.04**	<1.73	<1.73	<1.73	<0.585	<1.73	< 6.9	< 6.9	**6**	**13**	**5.81**	**9.57**
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867	< 3.5	< 3.5	**2.2**	**4.8**	**1.99**	**3.8**
TPHg	<826	<826	<826	<826	<164	<826	**4,100**	**6,600**	**3,000**	**1,000**	< 207	**834**

See notes at end of table.

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

Sample Location	VP-A DUP	VP-A	VP-A DUP	VP-A	VP-A DUP	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
Date	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	2/8/2018	5/21/2018
Acetone	**3.18**	**45.6 M**	< 2.97	< 2.97	**3.83**	**4.85**	<2.97	**28.6**	<2.97	**4.76**	**58.3**	<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	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	< 0.639	<0.639	**0.694**	<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	< 1.36	< 1.34	< 1.36	< 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	**1.39 M**	< 0.622	< 0.622	< 0.622	**0.731**	<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	< 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	**2.00**	**1.85**	**3.30**	<0.689	<0.689
Dibromochloromethane	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	<1.7	<1.70	<1.70	<1.7	<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	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20
1,3-Dichlorobenzene	**14.1**	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20
1,4-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20
1,2-Dichloroethane	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	<0.81	<0.810	<0.810	<0.81	<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	<0.802	<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	**5.20**	**9.98 M**	**2.48 M**	**4.62**	**16.5**	< 1.19	**4.61**	**52.2**	**2.48**	**4.40**	**5.16**	<1.19
Ethylbenzene	**1.21**	< 0.867	< 0.867	< 0.867	**1.09**	< 0.867	<0.867	**2.45**	<0.867	<0.867	**2.43**	<0.867
4-Ethyltoluene	< 0.982	< 0.982	< 0.982	**1.38**	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.81**	**2.02 M**	**1.63 M**	**1.43**	**1.27**	**1.25**	**1.61**	**1.90**	**1.37**	**1.30**	**1.65**	**1.48**
Dichlorodifluoromethane	**2.40**	**1.72 M**	**2.23 M**	**2.12**	**1.59**	**2.32**	**1.91**	**2.08**	**1.41**	**2.06**	**1.55**	**1.54**
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	<1.40	<1.40	<1.4	<1.4	<1.40
Heptane	< 0.818	< 0.818	< 0.818	< 0.818	**1.08**	< 0.818	<0.818	**1.49**	<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	< 0.705	< 0.705	**4.11 M**	< 0.705	**1.87**	< 0.705	<0.705	**3.65**	<0.705	<0.705	**1.83**	<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	**1.00 B**	< 0.694	<0.694	**2.55**	<0.694	<0.694	<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	< 3.69	< 3.69	< 3.69	< 3.69	<3.69	**8.19**	<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	**11.9**	<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	< 3.30	< 3.30	< 3.30	<3.3	<3.30	<3.30	<3.3	<3.3	<3.30
2-Propanol	**33.7**	< 3.07	**24.2 M**	**34.3**	**27.3**	< 3.07	<3.07	**12.1**	<3.07	<3.07	**47.3**	<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	**1.61**	< 0.851	< 0.851	< 0.851	**1.38**	< 0.851	<0.851	**3.00**	<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	**949**	**5,730 M**	**367 M**	**6,070**	**5,390**	**1,630**	**1,270**	**2,640**	**2,570**	**1,500**	**849**	**1,680**
Tetrahydrofuran	< 0.590	< 0.590	< 0.590	**1.91**	**1.68**	< 0.590	<0.59	**18.7**	<0.590	<0.59	**3.96**	<0.590
Toluene	**2.13**	< 0.753	**0.875 M**	**1.98**	**5.48**	< 0.753	**1.25**	**18.6**	**1.78**	**1.94**	**1.92**	<0.753
1,2,4-Trichlorobenzene	< 0.466	< 4.66	< 0.466	< 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	**1.40 M**	< 1.07	**1.28**	**1.07**	< 1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	**4.63**	< 0.982	< 0.982	**1.65**	**2.25**	< 0.982	<0.982	**2.07**	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	**1.15**	< 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	**41.4**	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	<0.934	**1.11**	<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	**5.86**	< 1.73	< 1.73	**2.80**	**3.65**	< 1.73	<1.73	**5.94**	**2.53**	<1.73	**9.44**	<1.73
o-Xylene	**2.41**	< 0.867	< 0.867	**1.07**	**1.52**	< 0.867	<0.867	**2.46**	<0.867	<0.867	**2.96**	<0.867
TPHg	**845**	**2,390 M**	**449 M**	**2,050**	**1,770**	**941**	**1,100**	**1,630**	**1,510**	**897**	**1,480**	**1,040**

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
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	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	8/18/2022
Acetone	<2.97	**8.27**	**3.44**	**9.6**	**73.1**	<2.97	**5.87**	**9.39**	<2.97	<2.97	**3.85**	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<2.3	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	**6.5**	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<3.8	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<2	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<7.6	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21
Bromomethane	<0.776	<0.776	<0.776	<1.1	<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	<0.65	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	**1.4**	<0.622	<0.622	<0.622	**1.13**	<0.622	<0.622	<0.622	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.8	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<1.3	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.77	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.71	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	<0.413	**1.23**	<0.413	<0.6	**0.871**	<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
Cyclohexane	<0.689	<0.689	<0.689	<2.5	<0.689	<0.689	**1.22**	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<2.5	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.1	<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	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	**1.98**	<1.20	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<4.4	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.59	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<1.2	<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	<1.2	<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	<1.2	<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	<1.2	<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	<1.4	<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	<1.3	<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	<1.3	<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	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**1.79**	**6.53**	**1.76**	**6.4**	**25.7**	**1.76**	**6.22**	**20.2**	**2.92 J+**	<2.36	**2.49**	<2.36
Ethylbenzene	<0.867	<0.867	<0.867	**8.3**	<0.867	<0.867	**2.48**	<0.867	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<3.6	<0.982	<0.982	**5.69**	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.81**	**1.31**	**1.40**	**2.0**	**1.25**	<1.12	**1.35**	**1.35**	**1.57**	**1.26**	**2.13**	**1.61**
Dichlorodifluoromethane	**2.03**	**2.17**	**1.48**	**2.3**	**2.47**	**1.97**	**2.63**	**2.32**	**2.92**	**2.65**	**2.43**	**2.37**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<2.2	<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	<2	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	**3.5**	<0.818	<0.818	**1.30**	<0.818	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<7.8	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	<0.705	**3.00**	<0.705	**4.8**	**0.833**	<0.705	**0.716**	<2.22	<2.22	<2.22	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<3.6	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	<0.694	**5.89**	<0.694	**5.9**	**1.08 J+**	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<6	<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	**5.9 J+**	<3.69	<3.69	**9.02**	<3.69	<3.69	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<6	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<1.2	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	<3.30	<3.30	<3.30	**4.1**	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	<3.07	**14.7**	<3.07	<3.6	**3.39**	<3.07	<3.07	**3.91**	<3.07	**7.55**	<3.07	<3.07
Propene	<0.689	<0.689	<0.689	<0.5	<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	<0.851	<0.851	<0.851	<1.2	**5.47**	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	**3.84**
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**2,150**	**773**	**300**	**702**	**1,640**	**475**	**147**	**788**	**1,850**	**461**	**1,700**	**1,120**
Tetrahydrofuran	<0.590	<0.590	<0.590	**3.0**	<0.590	<0.590	**18.7**	<0.590	<0.590	<0.590	<0.590	<0.590
Toluene	<0.753	<0.753	<0.753	**6.0**	**6.88**	<0.753	**11.1**	<1.88	<1.88	<1.88	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<10.9	<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	<1.6	<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	<0.8	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<0.79	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	**8.9**	<0.982	<0.982	**6.87**	<0.982	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	**1.6**	<0.982	<0.982	**2.13**	<0.982	<0.982	<0.982	<0.982	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<3.4	<0.934	<0.934	**1.14**	<0.934	<0.934	<0.934	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.37	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<1.3	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<1	<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	**17.4**	<1.73	<1.73	**10.6**	<1.73	<1.73	<1.73	<1.73	<1.73
o-Xylene	<0.867	<0.867	<0.867	<1.3	<0.867	<0.867	**4.47**	<0.867	<0.867	<0.867	<0.867	<0.867
TPHg	**1,500**	**698**	**337 J+**	**1,570**	**755 J+**	**399**	<826	<1650	**2,850 J+**	<826	**1,750**	**1,810**

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-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	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	6/9/2016
Acetone	**3.66**	<2.97	<1.39	**4.25**	**11**	< 59	< 59	< 48	**4.3**	**26.5**	**6.16**	**5.77**
Allyl Chloride	<0.626	<0.626	<0.357	<0.626	< 0.63	< 13	< 13	< 10	< 0.63	< 0.626	< 0.626	< 0.626
Benzene	<0.639	<0.639	<0.228	<0.639	**0.77**	< 13	< 13	< 10	**0.89**	**0.744**	< 0.639	**0.783**
Benzyl Chloride	<1.04	<1.04	<0.311	<1.04	< 1.0	< 21	< 21	< 17	< 1.0	< 1.04	< 1.04	< 1.04
Bromodichloromethane	<1.34	<1.34	<0.471	<1.34	< 1.3	< 27	< 27	< 21	< 1.3	< 1.34	< 1.34	< 1.34
Bromoform	<6.21	<6.21	<0.757	<6.21	< 6.2	< 120	< 120	< 99	< 6.2	< 6.21	< 6.21	< 6.21
Bromomethane	<0.776	<0.776	<0.381	<0.776	< 0.78	< 16	< 16	< 12	< 0.78	< 0.776	< 0.776	< 0.776
1,3-Butadiene	<4.43	<4.43	<0.230	<4.43	< 4.4	< 89	< 89	< 71	< 4.4	< 4.43	< 4.43	< 4.43
Carbon Disulfide	<0.622	<0.622	<0.317	<0.622	< 0.62	< 12	< 12	< 10	< 0.62	< 0.622	< 0.622	**0.741**
Carbon Tetrachloride	<1.26	<1.26	<0.461	<1.26	< 1.3	< 25	< 25	< 20	< 1.3	< 1.26	< 1.26	< 1.26
Chlorobenzene	<0.924	<0.924	<0.385	<0.924	< 0.92	< 18	< 18	< 15	< 0.92	< 0.924	< 0.924	< 0.924
Chloroethane	<0.528	<0.528	<0.263	<0.528	< 0.53	< 11	< 11	< 8.4	< 0.53	< 0.528	< 0.528	< 0.528
Chloroform	<0.973	<0.973	<0.349	<0.973	< 0.97	< 19	< 19	< 16	< 0.97	**1.24**	**1.20**	< 0.973
Chloromethane	<0.413	<0.413	<0.213	<0.413	**1.4**	< 8.3	< 8.3	< 6.6	< 0.41	< 0.413	< 0.413	< 0.413
2-Chlorotoluene	<1.03	<1.03	<0.427	<1.03	< 1.0	< 21	< 21	< 16	< 1.0	< 1.03	< 1.03	**39.9**
Cyclohexane	<0.689	<0.689	<0.259	<0.689	< 0.69	< 14	< 14	< 11	**1.2**	< 0.689	< 0.689	< 0.689
Dibromochloromethane	<1.7	<1.70	<0.618	<1.7	< 1.7	< 34	< 34	< 27	< 1.7	< 1.70	< 1.70	< 1.70
1,2-Dibromoethane	<1.54	<1.54	<0.554	<1.54	< 1.5	< 31	< 31	< 25	< 1.5	< 1.54	< 1.54	< 1.54
1,2-Dichlorobenzene	<1.2	<1.20	<0.770	<1.2	< 1.2	< 24	< 24	< 19	< 1.2	< 1.20	< 1.20	< 1.20
1,3-Dichlorobenzene	<1.2	<1.20	<1.09	<1.2	< 1.2	< 24	< 24	< 19	**2.0 M**	**2.38**	**6.24**	< 1.20
1,4-Dichlorobenzene	<1.2	<1.20	<0.335	<1.2	< 1.2	< 24	< 24	< 19	< 1.2	< 1.20	< 1.20	< 1.20
1,2-Dichloroethane	<0.81	<0.810	<0.283	<0.81	< 0.81	< 16	< 16	< 13	< 0.81	< 0.810	< 0.810	< 0.810
1,1-Dichloroethane	<0.802	<0.802	<0.290	<0.802	< 0.80	< 16	< 16	< 13	< 0.80	< 0.802	**2.69**	< 0.802
1,1-Dichloroethene	<0.793	<0.793	<0.302	<0.793	< 0.79	< 16	< 16	< 13	< 0.79	< 0.793	< 0.793	< 0.793
cis-1,2-Dichloroethene	**1.08**	<0.793	<0.311	<0.793	< 0.79	< 16	< 16	< 13	< 0.79	< 0.793	< 0.793	< 0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.267	<0.793	**1.3**	< 16	< 16	< 13	< 0.79	< 0.793	< 0.793	< 0.793
1,2-Dichloropropane	<0.924	<0.924	<0.351	<0.924	< 0.92	< 18	< 18	< 15	< 0.92	< 0.924	< 0.924	< 0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.313	<0.908	< 0.91	< 18	< 18	< 15	< 0.91	< 0.908	< 0.908	< 0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.331	<0.908	< .091	< 18	< 18	< 15	< 0.91	< 0.908	< 0.908	< 0.908
1,4-Dioxane	<0.721	<0.721	<0.300	<2.27	< 0.72	< 14	< 14	< 12	< 0.72	< 0.721	< 0.721	< 0.721
Ethanol	<2.36	<4.71	<0.500	**9.48 J+**	**12**	< 24	< 24	< 19	**47 M**	**26.4**	**8.43**	**23.6**
Ethylbenzene	<0.867	<0.867	<0.362	<0.867	< 0.87	< 17	< 17	< 14	**1.3**	**0.885**	**1.17**	< 0.867
4-Ethyltoluene	<0.982	<0.982	<0.384	<0.982	< 0.98	< 20	< 20	< 16	**1.4**	< 0.982	**2.68**	< 0.982
Trichlorofluoromethane	**1.32**	**1.62**	**1.20**	**1.47**	**1.5**	< 22	< 22	< 18	**2.6**	**1.37**	**4.91**	**2.1**
Dichlorodifluoromethane	**3.01**	**3.36**	**1.96**	**2.65**	**2.4**	< 20	< 20	< 16	**2.6**	**1.64**	**2.17**	**1.6**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<0.608	<1.53	< 1.5	< 31	< 31	< 25	< 1.5	< 1.53	< 1.53	< 1.53
1,2-Dichlorotetrafluoroethane	<1.4	**4.58**	<0.622	<1.4	< 1.4	< 28	< 28	< 22	< 1.4	< 1.40	< 1.40	< 1.40
Heptane	<0.818	<0.818	<0.425	<0.818	< 0.82	< 16	< 16	< 13	**1.3**	< 0.818	< 0.818	< 0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<1.12	<6.73	< 6.7	< 130	< 130	< 110	< 6.7	< 6.73	< 6.73	< 6.73
n-Hexane	<2.22	<2.22	<0.726	<2.22	**1.1**	< 14	< 14	< 11	**1.9**	**1.56**	< 0.705	**2.03**
Isopropylbenzene	<0.983	<0.983	<0.382	<0.983	< 0.98	< 20	< 20	< 16	< 0.98	< 0.983	< 0.983	< 0.983
Methylene Chloride	<0.694	<0.694	<0.340	**0.882**	**8.7**	< 14	< 14	< 11	< 0.69	< 0.694	< 0.694	**1.16**
Methyl Butyl Ketone	<5.11	<5.11	<0.544	<5.11	< 5.1	< 100	< 100	< 82	< 5.1	< 5.11	< 5.11	< 5.11
2-Butanone (MEK)	<3.69	<3.69	<0.240	<3.69	< 3.7	< 74	< 74	< 59	< 3.7	**22.3**	< 3.69	< 3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<0.313	<5.12	< 5.1	< 100	< 100	< 82	< 5.1	< 5.12	< 5.12	< 5.12
Methyl methacrylate	<0.819	<0.819	<0.359	<0.819	< 0.82	< 16	< 16	< 13	< 0.82	< 0.819	< 0.819	< 0.819
MTBE	<0.721	<0.721	<0.233	<0.721	< 0.72	< 14	< 14	< 12	< 0.72	< 0.721	< 0.721	< 0.721
Naphthalene	<3.3	<3.30	<1.83	<3.3	**8.9**	< 66	< 66	< 53	< 3.3	< 3.30	< 3.30	< 3.30
2-Propanol	<3.07	**6.64**	<0.649	<3.07	< 3.1	< 61	< 61	< 49	**34 M**	**39.3**	**14.2**	< 3.07
Propene	<2.15	<2.15	<0.160	<2.15	**1.1**	< 14	< 14	< 11	**1.9**	< 0.689	< 0.689	< 0.689
n-Propylbenzene	<0.982	<0.982	<0.379	<0.982	--	--	--	--	--	--	--	--
Styrene	<0.851	<0.851	<0.335	<0.851	< 0.85	< 17	< 17	< 14	< 0.85	< 0.851	**1.70**	< 0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<0.511	<1.37	< 1.4	< 27	< 27	< 22	< 1.4	< 1.37	< 1.37	< 1.37
Tetrachloroethylene	**354**	**310**	**1,390**	**146**	**100**	**20,000**	**110,000**	**46,000**	**10,000**	**186**	**4,150**	**7,730 M**
Tetrahydrofuran	<0.59	<0.590	<0.216	<0.59	< 0.59	< 12	< 12	< 9.4	**1.4**	**2.77**	**1.27**	**2.49**
Toluene	<1.88	<1.88	<0.328	**5.91**	**2.9**	< 15	< 15	< 12	**6.4**	**3.69**	**3.85**	**3.34**
1,2,4-Trichlorobenzene	<4.66	<4.66	<1.10	<4.66	< 4.7	< 93	< 93	< 75	< 4.7	< 4.66	< 4.66	< 4.66
1,1,1-Trichloroethane	<1.09	<1.09	<0.400	<1.09	< 1.1	< 22	< 22	< 17	**1.4**	< 1.09	< 1.09	< 1.09
1,1,2-Trichloroethane	<1.09	<1.09	<0.422	<1.09	< 1.1	< 22	< 22	< 17	< 1.1	< 1.09	< 1.09	< 1.09
Trichloroethylene	**27.4**	<1.07	<0.364	<1.07	< 1.1	< 21	< 21	< 17	**1.2**	**5.94**	**2.09**	< 1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.375	<0.982	**3.4**	< 20	< 20	< 16	**4.4**	**1.55**	**3.44**	< 0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.382	<0.982	< 0.98	< 20	< 20	< 16	**1.4**	< 0.982	< 0.982	< 0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.621	<0.934	< 0.93	< 19	< 19	< 15	< 0.93	**1.35**	< 0.934	**1.69**
Vinyl Chloride	<0.511	<0.511	<0.243	<0.511	< 0.51	< 10	< 10	< 8.2	< 0.51	< 0.511	< 0.511	< 0.511
Vinyl Bromide	<0.875	<0.875	<0.373	<0.875	< 0.87	< 17	< 17	< 14	< 0.87	< 0.875	< 0.875	< 0.875
Vinyl Acetate	<0.704	<0.704 UJ	<0.408	<2.22	< 0.70	< 14	< 14	< 11	< 0.70	< 0.704	< 0.704	< 0.704
m&p-Xylene	<1.73	<1.73	<0.585	<1.73	**3.4**	< 35	< 35	< 28	**10**	**3.67**	**5.89**	**1.83**
o-Xylene	<0.867	<0.867	<0.359	<0.867	**1.0**	< 17	< 17	< 14	**3.9**	**1.38**	**2.22**	< 0.867
TPHg	<826	<826	**876 J+**	<826	< 210	**26,000**	**37,000**	**17,000**	**1,400**	**524**	**1,260**	**1,740**

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	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	5/13/2019
Acetone	< 2.97	< 2.97	<2.97	**3.56**	<2.97	<2.97	**53.1**	**3.84**	<2.97	**5.56**	**4.92**	**42.5**
Allyl Chloride	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.4
Benzene	< 0.639	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.48
Benzyl Chloride	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<3.9
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	<7.8
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	<0.67
Carbon Disulfide	< 0.622	**2.25**	<0.622	**0.969**	<0.622	<0.622	<0.622	<0.622	**1.24**	<0.622	<0.622	<0.94
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	<0.8
Chloroform	< 0.973	< 0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	**4.60**
Chloromethane	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	**0.778**	<0.63
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	<0.689	**2.61**	<0.689	<0.689	<0.689	<0.689	<0.689	<2.6
Dibromochloromethane	< 1.70	< 1.70	<1.7	<1.70	<1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<2.6
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	<1.2
1,2-Dichlorobenzene	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8
1,3-Dichlorobenzene	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8
1,4-Dichlorobenzene	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<4.6
1,2-Dichloroethane	< 0.810	< 0.810	<0.81	<0.810	<0.810	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810	<0.61
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	**1.07**	< 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	<1.4
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	<1.4
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	<5.5
Ethanol	**4.25**	< 1.19	**3.84**	**2.10**	**1.45**	**2.68**	**2.63**	<1.19	<1.19	**6.21**	**8.90**	**10.6**
Ethylbenzene	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.05**	**3.54**	<0.867	<0.867	<0.867	<0.867	<1.3
4-Ethyltoluene	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<3.7
Trichlorofluoromethane	**1.26**	**1.18**	**1.42**	**1.60**	**1.33**	**1.13**	**1.48**	**1.35**	**1.44**	**1.38**	**1.31**	<1.7
Dichlorodifluoromethane	**1.57**	**2.10**	**1.41**	**1.57**	**1.47**	**1.27**	**1.32**	**1.35**	**1.80**	**1.92**	**1.41**	**2.3**
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	< 1.40	< 1.40	<1.4	<1.40	<1.40	<1.4	<1.4	<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	<8.1
n-Hexane	< 0.705	< 0.705	<0.705	<0.705	<0.705	<0.705	**1.96**	<0.705	<0.705	**7.38**	<0.705	<1.1
Isopropylbenzene	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<3.7
Methylene Chloride	< 0.694	< 0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**14.4**	**0.810**	**7.6**
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	<6.2
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	**8.8**
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	<6.2
Methyl methacrylate	< 0.819	< 0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	**2.3**
MTBE	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.5
Naphthalene	< 3.30	< 3.30	<3.3	<3.30	<3.30	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30	<4
2-Propanol	**29.1**	< 3.07	<3.07	<3.07	<3.07	<3.07	**42.7**	<3.07	<3.07	<3.07	<3.07	**4.5**
Propene	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.52
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	**5,660**	**1,580**	**1,450**	**2,810**	**3,520**	**884**	**620**	**1,490**	**4,470**	**711**	**307**	**693**
Tetrahydrofuran	**1.41**	< 0.590	<0.59	<0.59	<0.590	**10.1**	**3.18**	<0.590	<0.590	**1.12**	<0.590	<0.89
Toluene	**1.57**	< 0.753	**3.13**	<0.753	<0.753	**2.67**	**1.60**	<0.753	<0.753	**0.97**	<0.753	<1.1
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	<11.2
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	<1.7
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	<0.83
Trichloroethylene	< 1.07	< 1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**5.23**	**<1.07**	<1.07	**1.6**
1,2,4-Trimethylbenzene	< 0.982	< 0.982	<0.982	<0.982	<0.982	**2.80**	<0.982	<0.982	<0.982	<0.982	<0.982	<1.5
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	<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	<0.39
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	<1.1
m&p-Xylene	< 1.73	< 1.73	<1.73	<1.73	<1.73	**4.54**	**14.2**	<1.73	<1.73	<1.73	<1.73	<2.6
o-Xylene	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.66**	**4.20**	<0.867	<0.867	<0.867	<0.867	<1.3
TPHg	**1,650**	**866**	**1,020**	**1,380**	**800**	**863**	**1,320**	**1,130**	**1,410**	**670**	**350 J+**	**2,220**

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	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	12/20/2023
Acetone	**7.88**	<2.97	<2.97	**12.4**	<2.97	**6.82**	**3.80**	**2.99**	**3.73**	<2.97	<1.39	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	**0.799**	<0.639	<0.639	<0.639	<0.228	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.381	<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	<0.230	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.317	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973
Chloromethane	<0.413	<0.413	<0.413	**0.535**	<0.413	<0.413	**1.01**	**0.467**	<0.413	<0.413	<0.213	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.7	<1.70	<0.618	<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	<0.554	<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	<0.770	<1.2
1,3-Dichlorobenzene	<1.20	<1.20	**1.64**	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	<1.20	<1.09	<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	<0.335	<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	<0.283	<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	<0.290	<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	<0.302	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	**3.73**	**3.66**	<0.793	<0.793	<0.311	<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	<0.267	<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	<0.351	<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	<0.313	<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	<0.331	<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	<0.300	<2.27
Ethanol	**1.43**	**4.88**	**3.98**	**56.60**	<2.36	<2.36	**15.4**	**5.20**	**3.22**	<4.71	**5.34 J+**	<4.71
Ethylbenzene	<0.867	<0.867	**1.56**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867
4-Ethyltoluene	<0.982	<0.982	**3.58**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982
Trichlorofluoromethane	**1.27**	<1.12	**1.43**	**1.51**	**1.47**	**1.17**	**1.87**	**1.42**	**1.43**	**1.49**	<0.460	**1.15**
Dichlorodifluoromethane	**2.57**	**2.02**	**2.64**	**2.53**	**2.72**	**2.45**	**2.39**	**3.12**	**2.68**	**2.49**	**1.76**	**1.87**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<0.608	<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	<0.622	<1.4
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	**0.855**	<0.818	<0.818	<0.425	<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	<1.12	<6.73
n-Hexane	<0.705	**1.63**	<0.705	<2.22	<2.22	<2.22	<2.22	**2.63**	<2.22	<2.22	<0.726	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983
Methylene Chloride	<0.694	**1.32**	<0.694	**1.92**	<0.694	<0.694	**2.42**	<0.694	**0.736**	<0.694	<0.340	<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	<0.544	<5.11
2-Butanone (MEK)	<3.69	<3.69	**4.69**	**5.13**	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<0.240	<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	<0.313	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.233	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.3	<3.30	**24.1**	<3.3
2-Propanol	<3.07	<3.07	<3.07	**6.29**	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<0.649	<3.07
Propene	<0.689	<0.689	<0.689	**0.768**	<2.15	<2.15	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15
n-Propylbenzene	--	--	--	--	--	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982
Styrene	**1.26**	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	**2.02**	<0.851	<0.851	<0.335	<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	<0.511	<1.37
Tetrachloroethylene	**1,590**	**331**	**433**	**754**	**1,830**	**333**	**1,570**	**1,550**	**236**	**279**	**2,760**	**180**
Tetrahydrofuran	<0.590	**1.48**	**10.7**	<0.590	<0.590	<0.590	<0.590	**1.52**	<0.59	<0.590	<0.216	<0.59
Toluene	<0.753	**0.945**	**6.44**	**4.37**	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<0.328	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<1.10	<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	<0.400	<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	<0.422	<1.09
Trichloroethylene	**2.67**	<1.07	<1.07	<1.07	<1.07	<1.07	**4.33**	**6.86**	**1.17**	<1.07	**2.59**	<1.07
1,2,4-Trimethylbenzene	<0.982	**1.25**	**4.43**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	**1.35**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.382	<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	<0.621	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<0.408	<2.22
m&p-Xylene	<1.73	<1.73	**6.37**	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585	<1.73
o-Xylene	<0.867	<0.867	**2.76**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867
TPHg	**2,870**	**349**	<826	<1650	**2,270 J+**	<826	**1,660**	**1330 J+**	<826	<826	**1,410 J+**	<826

See notes at end of table.

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

Sample Location	VP-D	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	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	9/14/2015	12/14/2015
Acetone	< 12	< 24	< 24	**14 M**	**20 M**	**26**	**6.2**	**10**	**7.1**	**3.67**	**4.92**	< 2.97
Allyl Chloride	< 2.5	< 5.0	< 5.0	< 0.63	< 0.63	< 2.5	< 0.63	< 0.63	< 0.63	< 0.626	< 0.626	< 0.626
Benzene	< 2.6	< 5.1	< 5.1	**1.4 M**	**1.9 M**	< 2.6	< 0.64	< 0.64	< 0.64	< 0.639	< 0.639	< 0.639
Benzyl Chloride	< 4.2	< 8.3	< 8.3	< 1.0	< 1.0	< 4.2	< 1.0	< 1.0	< 1.0	< 1.04	< 1.04	< 1.04
Bromodichloromethane	< 5.4	< 11	< 11	< 1.3	< 1.3	< 5.4	< 1.3	< 1.3	< 1.3	< 1.34	< 1.34	< 1.34
Bromoform	< 25	< 50	< 50	< 6.2	< 6.2	< 25	< 6.2	< 6.2	< 6.2	< 6.21	< 6.21	< 6.21
Bromomethane	< 3.1	< 6.2	< 6.2	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 0.776	< 0.776	< 0.776
1,3-Butadiene	< 18	< 35	< 35	< 4.4	< 4.4	< 18	< 4.4	< 4.4	< 4.4	< 4.43	< 4.43	< 4.43
Carbon Disulfide	< 2.5	< 5.0	< 5.0	**5.0 M**	**3.4 M**	< 2.5	< 0.62	**0.93**	**0.81**	**1.24**	< 0.622	< 0.622
Carbon Tetrachloride	< 5.0	< 10	< 10	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	< 1.3	< 1.26	< 1.26	< 1.26
Chlorobenzene	< 3.7	< 7.4	< 7.4	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92	< 0.92	< 0.924	< 0.924	< 0.924
Chloroethane	< 2.1	< 4.2	< 4.2	< 0.53	< 0.53	< 2.1	< 0.53	< 0.53	< 0.53	< 0.528	< 0.528	< 0.528
Chloroform	< 3.9	< 7.8	< 7.8	< 0.97	< 0.97	< 3.9	< 0.97	< 0.97	< 0.97	**20.7**	**21.2**	**1.12**
Chloromethane	< 1.7	< 3.3	< 3.3	**1.1 M**	< 0.41 M	< 1.7	< 0.41	**0.87**	< 0.41	< 0.413	< 0.413	< 0.413
2-Chlorotoluene	< 4.1	< 8.2	< 8.2	< 1.0	< 1.0	< 4.1	< 1.0	< 1.0	< 1.0	< 1.03	< 1.03	< 1.03
Cyclohexane	< 2.8	< 5.5	< 5.5	< 0.69	< 0.69	< 2.8	**0.76**	< 0.69	< 0.69	< 0.689	< 0.689	< 0.689
Dibromochloromethane	< 6.8	< 14	< 14	< 1.7	< 1.7	< 6.8	< 1.7	< 1.7	< 1.7	< 1.70	< 1.70	< 1.70
1,2-Dibromoethane	< 6.2	< 12	< 12	< 1.5	< 1.5	< 6.2	< 1.5	< 1.5	< 1.5	< 1.54	< 1.54	< 1.54
1,2-Dichlorobenzene	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20	< 1.20
1,3-Dichlorobenzene	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20	< 1.20
1,4-Dichlorobenzene	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20	< 1.20
1,2-Dichloroethane	< 3.2	< 6.5	< 6.5	< 0.81	< 0.81	< 3.2	< 0.81	< 0.81	< 0.81	< 0.810	< 0.810	< 0.810
1,1-Dichloroethane	< 3.2	< 6.4	< 6.4	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80	< 0.802	< 0.802	< 0.802
1,1-Dichloroethene	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793	< 0.793
cis-1,2-Dichloroethene	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793	< 0.793
trans-1,2-Dichloroethene	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793	< 0.793
1,2-Dichloropropane	< 3.7	< 7.4	< 7.4	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92	< 0.92	< 0.924	< 0.924	< 0.924
cis-1,3-Dichloropropene	< 3.6	< 7.3	< 7.3	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.908	< 0.908	< 0.908
trans-1,3-Dichloropropene	< 3.6	< 7.3	< 7.3	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.908	< 0.908	< 0.908
1,4-Dioxane	< 2.9	< 5.8	< 5.8	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.721	< 0.721	< 0.721
Ethanol	**8.5**	< 9.5	< 9.5	< 1.2 M	**7.2 M**	**8.1**	**11 M**	**8.9**	**4.7**	< 1.19	**2.54**	< 1.19 J3
Ethylbenzene	< 3.5	< 6.9	< 6.9	**0.95**	**0.95**	< 3.5	**1.0**	< 0.87	< 0.87	< 0.867	< 0.867	< 0.867
4-Ethyltoluene	< 3.9	**9.8**	< 7.9	**1.3**	< 0.98	< 3.9	< 0.98	< 0.98	< 0.98	< 0.982	< 0.982	< 0.982
Trichlorofluoromethane	< 4.5	< 9.0	< 9.0	**1.2**	< 1.1	< 4.5	**1.7**	**1.6**	**1.6**	**1.49**	**1.51**	**1.68**
Dichlorodifluoromethane	**4.3**	< 7.9	< 7.9	**1.2**	< 0.99	**4.7**	**2.7**	**2.3**	**2.3**	**1.83**	**2.37**	**2.11**
1,1,2-Trichlorotrifluoroethane	< 6.1	< 12	< 12	< 1.5	< 1.5	< 6.1	< 1.5	< 1.5	< 1.5	< 1.53	< 1.53	< 1.53
1,2-Dichlorotetrafluoroethane	< 5.6	< 11	< 11	< 1.4	< 1.4	< 5.6	< 1.4	< 1.4	< 1.4	< 1.40	< 1.40	< 1.40
Heptane	< 3.3	< 6.5	< 6.5	**0.98**	< 0.82	< 3.3	**0.90**	< 0.82	< 0.82	< 0.818	< 0.818	< 0.818
Hexachloro-1,3-butadiene	< 27	< 54	< 54	< 6.7	< 6.7	< 27	< 6.7	< 6.7	< 6.7	< 6.73	< 6.73	< 6.73 J3
n-Hexane	< 2.8	< 5.6	< 5.6	**1.9**	**1.7**	< 2.8	**1.2**	< 0.71	< 0.71	< 0.705	< 0.705	< 0.705
Isopropylbenzene	< 3.9	< 7.9	< 7.9	< 0.98	< 0.98	< 3.9	< 0.98	< 0.98	< 0.98	< 0.983	< 0.983	< 0.983
Methylene Chloride	**4.5**	< 5.6	< 5.6	**1.1 M**	< 0.69 M	< 2.8	< 0.69	**9.0**	< 0.69	< 0.694	< 0.694	< 0.694
Methyl Butyl Ketone	< 20	< 41	< 41	< 5.1	< 5.1	< 20	< 5.1	< 5.1	< 5.1	< 5.11	< 5.11	< 5.11
2-Butanone (MEK)	< 15	< 29	< 29	**3.8**	< 3.7	< 15	< 3.7	< 3.7	< 3.7	< 3.69	< 3.69	< 3.69
4-Methyl-2-pentanone (MIBK)	< 20	< 41	< 41	< 5.1	< 5.1	< 20	< 5.1	< 5.1	< 5.1	< 5.12	< 5.12	< 5.12
Methyl methacrylate	< 3.3	< 6.6	< 6.6	< 0.82	< 0.82	< 3.3	< 0.82	< 0.82	< 0.82	< 0.819	< 0.819	< 0.819
MTBE	< 2.9	< 5.8	< 5.8	**7.6 M**	< 0.72 M	< 2.9	< 0.72	< 0.72	< 0.72	< 0.721	< 0.721	< 0.721
Naphthalene	< 13	< 26	< 26	< 3.3	< 3.3	< 13	< 3.3	< 3.3	< 3.3	< 3.30	< 3.30	< 3.30 J3
2-Propanol	< 12	< 25	< 25	< 3.1	< 3.1	**14**	**3.9 M**	**4.7**	< 3.1	< 3.07	< 3.07	< 3.07
Propene	< 2.8	< 5.5	< 5.5	**2.6**	**2.6**	< 2.8	< 0.69	< 0.69	< 0.69	< 0.689	< 0.689	< 0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 3.4	< 6.8	< 6.8	< 0.85	< 0.85	< 3.4	< 0.85	< 0.85	< 0.85	< 0.851	< 0.851	< 0.851
1,1,2,2-Tetrachloroethane	< 5.5	< 11	< 11	< 1.4	< 1.4	< 5.5	< 1.4	< 1.4	< 1.4	< 1.37	< 1.37	< 1.37
Tetrachloroethylene	**17,000**	**12,000**	**11,000**	**7.5 M**	**3.8 M**	**25,000**	**3,700**	**5,900**	**5,400**	**22,800**	**17,900**	**1,810**
Tetrahydrofuran	< 2.4	< 4.7	< 4.7	**2.1 M**	< 0.59 M	< 2.4	**1.3**	< 0.59	**0.59**	< 0.590	< 0.590	< 0.590
Toluene	< 3.0	**20 M**	< 6.0 M	**5.3**	**5.7**	< 3.0	**4.5**	**1.3**	**1.0**	< 0.753	< 0.753	< 0.753
1,2,4-Trichlorobenzene	< 19	< 37	< 37	< 4.7	< 4.7	< 19	< 4.7	< 4.7	< 4.7	< 4.66	< 4.66	< 4.66 J3
1,1,1-Trichloroethane	< 4.4	< 8.7	< 8.7	< 1.1	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.09	< 1.09	< 1.09
1,1,2-Trichloroethane	< 4.4	< 8.7	< 8.7	< 1.1	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.09	< 1.09	< 1.09
Trichloroethylene	< 4.3	< 8.6	< 8.6	< 1.1	< 1.1	< 4.3	< 1.1	< 1.1	< 1.1	< 1.07	< 1.07	**7.15**
1,2,4-Trimethylbenzene	< 3.9	**28 M**	< 7.9 M	**4.8 M**	**2.9 M**	< 3.9	**3.8**	**1.1**	**1.3**	< 0.982	< 0.982	< 0.982
1,3,5-Trimethylbenzene	< 3.9	**11 M**	< 7.9 M	**2.1 M**	< 0.98 M	< 3.9	**1.1**	< 0.98	< 0.98	< 0.982	< 0.982	< 0.982
2,2,4-Trimethylpentane	< 3.7	< 7.5	< 7.5	< 0.93	**1.1**	< 3.7	< 0.93	< 0.93	< 0.93	< 0.934	< 0.934	< 0.934
Vinyl Chloride	< 2.0	< 4.1	< 4.1	< 0.51	< 0.51	< 2.0	< 0.51	< 0.51	< 0.51	< 0.511	< 0.511	< 0.511
Vinyl Bromide	< 3.5	< 7.0	< 7.0	< 0.87	< 0.87	< 3.5	< 0.87	< 0.87	< 0.87	< 0.875	< 0.875	< 0.875
Vinyl Acetate	< 2.8	< 5.6	< 5.6	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.704	< 0.704	< 0.704
m&p-Xylene	< 6.9	< 14	< 14	**3.6**	**3.4**	< 6.9	**8.2**	**2.4**	**2.2**	< 1.73	< 1.73	< 1.73
o-Xylene	< 3.5	< 6.9	< 6.9	**1.5**	**1.2**	< 3.5	**3.1**	< 0.87	< 0.87	< 0.867	< 0.867	< 0.867
TPHg	**5,000**	**9,100**	**10,000**	**210**	**210**	**5,400**	**1,100**	**4,500**	**5,400**	**6,060**	**6,230**	**1,030**

See notes at end of table.

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

Sample Location	VP-D	VP-D	VP-D	VP-D	VP-D	VP-D DUP	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	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	11/20/2017	11/20/2017
Acetone	**8.5**	< 2.97	< 2.97	< 2.97	<2.97	**17.1**	**9.21**	**9.65**	<2.97	**8.04**	<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	< 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	**3.65**	<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	**98.4**	**15.3**	**1.49**	<0.973	<0.973	**27.3**	**29.2**	**14.0**	**13.0**	**4.03**	**4.09**
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	**0.931**	<0.689	<0.689	**1.66 J**	**23.8 J**	**2.43**	**2.40**
Dibromochloromethane	< 1.70	< 1.70	< 1.70	< 1.70	<1.7	<1.7	<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	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.2	<1.2
1,3-Dichlorobenzene	**12.7**	**12.7**	< 1.20	< 1.20	<1.2	**1.47**	<1.20	<1.20	<1.20	<1.20	<1.2	<1.2
1,4-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.2	<1.2
1,2-Dichloroethane	< 0.810	< 0.810	< 0.810	< 0.810	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810	<0.81	<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	**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**	<1.19	**1.58**
Ethylbenzene	**1.8**	< 0.867	< 0.867	< 0.867	<0.867	**1.60**	<0.867	<0.867	<0.867	**4.85**	<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	**1.69**	**1.22**	**1.51**	**1.30**	**1.44**	**1.50**	**1.48**	**1.49**	**1.38**	**1.38**	**1.21**	**1.20**
Dichlorodifluoromethane	**2.42**	**1.46**	**2.05**	**2.20**	**1.36**	**1.50**	**1.45**	**1.45**	**1.32**	**1.38**	**1.25**	**1.22**
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	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40	<1.4	<1.4
Heptane	< 0.818	< 0.818	< 0.818	< 0.818	<0.818	**0.952**	<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	**0.979**	< 0.705	< 0.705	< 0.705	<0.705	0.856	<0.705	**0.865**	<0.705	**0.742**	<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	**1.12 B**	**1.65 B, J**	**0.713 B, J**	**1.06 J**	**2.10 J**	**0.725**	<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	< 3.69	< 3.69	<3.69	<3.69	<3.69	<3.69	<3.69	**7.39**	<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	1.47	<0.819	<0.819	<0.819	<0.819
MTBE	< 0.721	< 0.721	**0.91**	< 0.721	<0.721	<0.721	**1.11**	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	< 3.30	< 3.30	< 3.30	< 3.30	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30	<3.3	<3.3
2-Propanol	**96.8**	< 3.07	< 3.07	< 3.07	**4.62 J**	**34.2 J**	**10.6 J**	**5.10 J**	<3.07	**12.0**	<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	**2.57**	< 0.851	< 0.851	< 0.851	<0.851	**1.39**	<0.851	<0.851	<0.851	**2.30**	<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	**691**	**1,230 M**	**1,010**	**222**	**71.4**	**69.3**	**158**	**163**	**554**	**483**	**325**	**323**
Tetrahydrofuran	< 0.590	< 0.590	< 0.590	< 0.590	**3.75**	**3.70**	**1.64 J**	**2.83 J**	<0.590	<0.590	<0.59	<0.59
Toluene	**5.35**	< 0.753	**1.02**	< 0.753	<0.753	**11.4**	<0.753	**3.29**	**1.72 J**	**21.0 J**	<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	**1.9**	< 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	**5.12**	< 0.982	< 0.982	< 0.982	**1.06**	**1.29**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	**1.38**	< 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	< 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	**9.13**	< 1.73	< 1.73	< 1.73	<1.73	**4.98**	<1.73	<1.73	<1.73	**14.1**	<1.73	<1.73
o-Xylene	**3.58**	< 0.867	< 0.867	< 0.867	<0.867	**1.89**	<0.867	<0.867	<0.867	**3.75**	<0.867	<0.867
TPHg	**693**	**1,590**	**1,190**	< 207	<207	**317**	**401 J**	**248 J**	**562**	**703**	**423**	**364**

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	VP-D DUP	VP-D	VP-D DUP	VP-D
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	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	5/13/2019	8/19/2019
Acetone	**53.8 J**	**33.3 J**	**294 J**	<2.97	<2.97	**3.94**	**6.86**	<2.97	**3.61**	**7.6 M**	**279 M**	**7.51 M**
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.3	<2.4	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	0.91	<0.48	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<3.8	<3.9	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<2	<2	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<7.7	<7.8	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<1.2	<1.2	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.66	<0.67	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	0.637	<0.622	<0.622	<0.92	<0.94	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.9	<1.9	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4	<1.4	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.78	<0.8	<0.528
Chloroform	<0.973	**1.09**	<0.973	<0.973	**24.4**	**23.6**	3.11	**4.34**	**4.03**	**2.0**	**1.8**	<0.973
Chloromethane	<0.413	<0.413	0.636	<0.413	<0.413	<0.413	0.787	<0.413	<0.413	<0.61	<0.63	**1.11 M**
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	--	--	<1.03
Cyclohexane	**0.833**	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<2.6	<2.6	<0.689
Dibromochloromethane	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<2.5	<2.6	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.1	<1.2	<1.54
1,2-Dichlorobenzene	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.8	<1.8	<1.20
1,3-Dichlorobenzene	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.8	<1.8	<1.20
1,4-Dichlorobenzene	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<4.5	<4.6	<1.20
1,2-Dichloroethane	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.6	<0.61	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<1.2	<1.2	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<1.2	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<1.2	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<1.2	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4	<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	<1.3	<1.4	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<1.4	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<5.5	<0.721
Ethanol	**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**	**82.0 M**	**4.00 M**
Ethylbenzene	**2.68 J**	**1.57 J**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<1.3	**17.2**	<0.867
4-Ethyltoluene	<0.982	<0.982	3.04	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<3.6	**4.4**	<0.982
Trichlorofluoromethane	**1.22**	**1.51**	**1.24**	**1.20**	**1.62**	**1.59**	**1.34**	**1.39**	**1.28**	<1.7	<1.7	**1.23**
Dichlorodifluoromethane	**1.45**	**1.28**	**1.28**	**1.33**	**1.74**	**1.76**	**1.88**	**1.39 M**	**2.30 M**	**2.0**	**2.0**	**2.40**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<2.3	<2.3	<1.53
1,2-Dichlorotetrafluoroethane	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<2.1	<2.1	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<1.2	<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	<7.9	<8.1	<6.73
n-Hexane	**2.31 J**	**1.17 J**	<0.705	<0.705	<0.705	<0.705	<0.705	**1.10**	**1.39**	<1	**1.8**	**0.834**
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<3.6	**4.8**	<0.983
Methylene Chloride	<0.694	<0.694	<0.694	**0.856**	<0.694	<0.694	<0.694	**3.92**	**4.87**	<5.2	**8.3**	**0.696 J+**
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<6.1	<6.2	<5.11
2-Butanone (MEK)	<3.69	<3.69	50.3	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<4.4	**60.5**	<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	<6.1	<6.2	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<1.2	<1.2	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<5.5	<0.721
Naphthalene	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.9	<4	<3.30
2-Propanol	**41.6**	**34.9**	**5.24**	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.6	**38.1**	<3.07
Propene	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.51	<0.52	<0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<1.3	<1.3	<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	<1	<1.37
Tetrachloroethylene	**195 J**	**298 J**	**247**	**235**	**449**	**438**	**89.2**	**252 M**	**170 M**	**107**	**93.2**	<1.36
Tetrahydrofuran	**4.48 J**	**2.53 J**	**0.601 J**	**1.08 J**	<0.590	<0.590	<0.590	<0.590	<0.590	<0.88	**7.3**	<0.590
Toluene	**15.4 J**	**1.27 J**	**2.74 J**	**1.09 J**	<0.753	<0.753	<0.753	<0.753	**0.904**	**7.7**	**6.6**	**1.23 M**
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<11	<11.2	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.6	<1.7	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.81	<0.83	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**1.30**	<1.07	**9.8**	<0.81	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	7.17	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**4.4 M**	**8.9 M**	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	2.17	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<1.5	**3.9**	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<3.5	<3.5	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.38	<0.39	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<1.3	<1.3	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1	<1.1	<0.704
m&p-Xylene	**10.9 J**	**6.18 J**	**2.36**	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	**9.6 M**	**57.5 M**	<1.73
o-Xylene	**3.29 J**	**1.96 J**	**1.51**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	**3.2 M**	**17.0 M**	<0.867
TPHg	**369 J+**	**481**	**418 J+**	**244 J+**	**410**	**411**	<207	**270 J+**	<207	<152	**1,930**	<207

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 DUP	VP-D	VP-D DUP
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	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	7/18/2022
Acetone	**23.8 M**	<2.97	<2.97	<2.97	<2.97	**4.90**	**6.58**	<2.97	**3.83**	**4.75**	<2.97	**3.21**
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	0.763	<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	**18.0**	**17.5**	**1.34**	**1.23**	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	**3.52 M**	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	1.22	<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	<0.689	<0.689	<0.689
Dibromochloromethane	<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	<1.54	<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	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	**1.77**	**1.36**	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	<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	<0.810	<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	<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	0.973	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	**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**	**6.64 M**
Ethylbenzene	<0.867	<0.867	<0.867	**1.33**	**0.954**	**1.27**	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	**2.75**	**2.28**	**2.56**	**1.68**	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.39**	**1.14**	**1.20**	**1.55**	**1.61**	**1.55**	**1.57**	**1.62**	**1.34**	**1.33**	**1.70**	**1.88**
Dichlorodifluoromethane	**2.67**	**2.00**	**2.12**	<0.989	**2.82**	**2.93**	**2.45**	**2.70**	**2.43**	**2.59**	**2.33**	**2.38**
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	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	**0.830**	<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	<0.705	<0.705	<0.705	<0.705	<0.705	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22
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	**0.744 J+**	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**2.33**	<0.694	<0.694	**1.22**
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	**3.92**	<3.69	**6.90**	**3.77**	<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	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	**37.1**	<3.07	<3.07	<3.07
Propene	**3.25**	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<2.15	<2.15	<2.15	<2.15	<2.15
n-Propylbenzene	--	--	--	--	--	--	--	--	<0.982	<0.982	<0.982	<0.982
Styrene	**2.12**	<0.851	<0.851	<0.851	<0.851	**1.02**	<0.851	<0.851	<0.851	<0.851	**2.22**	<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	**2.41**	**19.9**	**18.7**	**9.91**	**5.95**	**102**	**116**	**66.3**	**19.0**	<1.36	**40.2**	**43.7**
Tetrahydrofuran	<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	**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	<1.88
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	**3.16**	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	**3.25**	**2.78**	**3.47**	**2.38**	<0.982	<0.982	<0.982	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	**1.03**	<0.982	**1.14**	<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	**5.42**	**3.82**	**5.07**	**2.48**	<1.73	<1.73	<1.73	<1.73	<1.73
o-Xylene	<0.867	<0.867	<0.867	**2.10**	**1.57**	**2.27**	**1.17**	<0.867	<0.867	<0.867	<0.867	<0.867
TPHg	<207	<207	<207	<826	<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	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D
Depth (ft bgs)	5	5	5	5	5	5	5	5
Date	8/18/2022	8/18/2022	1/18/2023	1/18/2023	4/3/2023	4/3/2023	8/22/2023	12/20/2023
Acetone	<2.97	<2.97	<2.97	<2.97	<2.97	**5.06**	<1.39	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.228	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.381	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.230	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.317	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973
Chloromethane	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.213	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<0.618	<1.7
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.770	<1.2
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.09	<1.2
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.335	<1.2
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.283	<0.81
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.290	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.302	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.311	<0.793
trans-1,2-Dichloroethene	<0.793	**1.03**	<0.793	<0.793	<0.793	<0.793	<0.267	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.351	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.313	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.331	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.300	<2.27
Ethanol	<2.36	**3.94**	**8.58**	**7.73**	<4.71	**40.2**	<0.500	**5.30 J+**
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982
Trichlorofluoromethane	**1.44**	**1.50**	**1.45**	**1.43**	**1.47**	**1.47**	**1.40**	**1.26**
Dichlorodifluoromethane	**2.78**	**2.72**	**2.57**	**2.51**	**2.60**	**2.51**	**2.26**	**1.88**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<0.608	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<0.622	<1.4
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.425	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<1.12	<6.73
n-Hexane	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	<0.726	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983
Methylene Chloride	<0.694	<0.694	<0.694	**0.712**	<0.694	**2.06**	<0.340	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<0.544	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<0.240	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<0.313	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.233	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<1.83	<3.3
2-Propanol	<3.07	<3.07	<3.07	<3.07	<3.07	5.58	<0.649	<3.07
Propene	<2.15	<2.15	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15
n-Propylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982
Styrene	**1.39 M**	**3.65 M**	<0.851	<0.851	<0.851	<0.851	<0.335	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<0.511	<1.37
Tetrachloroethylene	**58.5**	**52.5**	**60.2**	**58.7**	**55.4**	**49.0**	**105**	**51.7**
Tetrahydrofuran	<0.590	<0.590	<0.59	<0.59	<0.590	<0.590	<0.216	<0.59
Toluene	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<0.328	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<1.10	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.400	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.422	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<0.364	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.382	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.621	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<0.704 UJ	<0.408	<2.22
m&p-Xylene	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585	<1.73
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867
TPHg	<826	<826	<826	<826	<826	<826	<164	<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	VP-C	VP-C	VP-C	VP-C	VP-C	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	5	5	5	5	5	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	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	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/4/2020
Acetone	**140**	**190**	**810**	< 3.0	**24**	**95**	**14**	**5.7**	**5.0**	**6.70**	**3.16**	**24.60**	**7.58**	< 2.97	**16.5**	**4.19**	**4.21**	<2.97	**54.0**	**39.9**	<2.97	**3.02**	<2.97	<2.97	**7.2**	**4.13**	<2.97	<2.97	<2.97
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	< 0.626	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.5	<0.626	<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**	**1.12**	< 0.639	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.5	<0.639	<0.639	<0.639	<0.639
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	< 1.04	< 1.04	< 1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<4.1	<1.04	<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	< 1.34	< 1.34	< 1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<2.1	<1.34	<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	< 6.21	< 6.21	< 6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<8.1	<6.21	<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	< 0.776	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<1.2	<0.776	<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	< 4.43	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.7	<4.43	<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	< 0.622	< 0.622	< 0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.98	<0.622	<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	< 1.26	< 1.26	< 1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<2	<1.26	<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	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.5	<0.924	<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	< 0.528	< 0.528	< 0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.83	<0.528	<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	< 0.973	< 0.973	< 0.973	**1.05**	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.77	<0.973	<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**	**1.20**	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.65	<0.413	<0.413	<0.413	<0.413
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	< 1.03	< 1.03	< 1.03	<1.03	<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	< 0.69	< 0.69	< 0.69	< 0.69	< 2.8	**4.1**	< 0.69	**0.93**	< 0.69	< 0.689	< 0.689	**3.04**	< 0.689	< 0.689	< 0.689	<0.689	**0.968**	<0.689	**2.33**	<0.689	<0.689	<0.689	<0.689	<0.689	<2.7	<0.689	<0.689	<0.689	<0.689
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	< 1.70	< 1.70	< 1.70	<1.7	<1.70	<1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<2.7	<1.70	<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	< 1.54	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.2	<1.54	<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	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.9	<1.20	<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**	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.9	<1.20	<1.20	<1.20	<1.20
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	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<4.7	<1.20	<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	< 0.810	< 0.810	< 0.810	<0.81	<0.810	<0.810	<0.81	<0.81	<0.810	<0.810	<0.810	<0.810	<0.64	<0.810	<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	< 0.802	< 0.802	< 0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<1.3	<0.802	<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	< 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	<0.793	<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	< 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	<0.793	<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	< 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	<0.793	<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	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.5	<0.924	<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	< 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	<0.908	<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	< 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	<0.908	<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	< 0.721	< 0.721	**1.62**	<0.721	<0.721	<0.721	**10.2**	<0.721	<0.721	<0.721	<0.721	<0.721	<5.7	<0.721	<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**	**20.9**	**6.6**	**3.10**	**1.55**	**8.12**	<1.19	**10.8**	**5.09**	<1.19	**4.37**	**1.53**	**4.66**	<3	**1.37**	<1.19	<1.19	**2.30**
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**	< 0.867	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.27**	**1.96**	<0.867	<0.867	<0.867	<0.867	<1.4	<0.867	<0.867	<0.867	<0.867
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**	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<3.9	<0.982	<0.982	<0.982	<0.982
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**	**1.58**	**1.52**	**1.57**	**1.45**	**1.83**	**1.65**	**1.38**	**1.68**	**1.46**	**1.63**	**1.72**	**1.38**	<1.8	**1.39**	**1.20**	**1.51**	**1.60**
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**	**1.83**	**1.53**	**2.17**	**1.67**	**1.40**	**1.21**	**1.15**	**1.32**	**1.24**	**1.72**	**1.76**	**1.28**	**1.9**	**2.58**	**1.82**	**2.66**	**2.22**
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	< 1.53	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<2.4	<1.53	<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	< 1.40	< 1.40	< 1.40	<1.4	<1.40	<1.40	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40	<2.2	<1.40	<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**	< 0.818	< 0.818	< 0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<1.3	<0.818	<0.818	<0.818	<0.818
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	< 6.73	< 6.73	< 6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<8.4	<6.73	<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**	**0.94**	< 0.705	< 0.705	<0.705	<0.705	<0.705	<0.705	**1.61**	<0.705	<0.705	<0.705	<0.705	<1.1	<0.705	<0.705	<0.705	<2.22
Isopropylbenzene	< 0.98	< 0.98	< 0.98	< 0.98	< 3.9	**13**	< 0.98	< 0.98	**1.8**	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<3.9	<0.983	<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	**0.75**	< 0.694	< 0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**2.33**	<0.694	<0.694	<5.5	<0.694	<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	< 5.11	< 5.11	< 5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<6.4	<5.11	<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**	< 3.69	< 3.69	**4.30**	<3.69	<3.69	<3.69	**10.5**	<3.69	<3.69	<3.69	<3.69	<3.69	<4.6	<3.69	<3.69	<3.69	<3.69
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	< 5.12	< 5.12	< 5.12	<5.12	<5.12	<5.12	**17.7**	<5.12	<5.12	<5.12	<5.12	<5.12	<6.4	<5.12	<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	< 0.819	< 0.819	< 0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<1.3	<0.819	<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	**0.771**	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.7	<0.721	<0.721	<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	< 3.30	< 3.30	< 3.30	<3.3	<3.30	<3.30	<3.3	<3.3	<3.30	<3.30	<3.30	<3.30	<4.1	<3.30	<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**	< 3.07	< 3.07	**6.62**	<3.07	<3.07	<3.07	<3.07	**38.6**	<3.07	<3.07	<3.07	<3.07	<3.9	<3.07	<3.07	<3.07	<3.07
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**	**1.17**	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.54	<0.689	<0.689	<0.689	<0.689
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**	< 0.851	< 0.851	< 0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<0.851	<1.3	**1.80**	<0.851	<0.851	<0.851
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	< 1.37	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.1	<1.37	<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**	**229 M**	**2520**	**1760**	**809**	**1,180**	**1,230**	**1,210**	**558**	**832**	**849**	**1170**	**638**	**602**	**532**	**202**	**137**	**337**
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**	< 0.590	< 0.590	**0.993**	<0.59	<0.590	<0.590	**2.48**	**3.19**	<0.590	<0.590	<0.590	**0.640**	<0.93	<0.590	0.858	<0.590	<0.590
Toluene	**1.2**	**9.8**	**9.0**	**2.3**	**8.7**	**250**	< 0.75	**5.3**	< 0.75	**2.97**	**1.49**	**5.2**	**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	<0.753	<0.753	<0.753	<1.88
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	< 4.66	< 4.66	< 4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<11.7	<4.66	<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	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.7	<1.09	<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	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.86	<1.09	<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	< 1.07	< 1.07	< 1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<0.85	<1.07	<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**	< 0.982	< 0.982	**2.24**	<0.982	<0.982	<0.982	**3.49**	<0.982	<0.982	<0.982	<0.982	<0.982	<1.5	<0.982	<0.982	<0.982	<0.982
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**	< 0.982	< 0.982	**1.05**	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<1.5	<0.982	<0.982	<0.982	<0.982
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**	< 0.934	< 0.934	< 0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<3.7	<0.934	<0.934	<0.934	<0.934
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	< 0.511	< 0.511	< 0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.4	<0.511	<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	< 0.875	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<1.4	<0.875	<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	< 0.704	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1.1	<0.704	<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**	< 1.73	< 1.73	< 1.73	<1.73	<1.73	<1.73	**8.89**	**7.83**	<1.73	<1.73	<1.73	<1.73	<2.7	<1.73	<1.73	<1.73	<1.73
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**	< 0.867	< 0.867	< 0.867	<0.867	<0.867	<0.867	**4.01**	**2.38**	<0.867	<0.867	<0.867	<0.867	<1.4	<0.867	<0.867	<0.867	<0.867
TPHg	**2,500**	**1,400**	**2,400**	**1,400**	**4,100**	**2,700**	**1,500**	**910**	**3,500**	**3,800**	< 207	**570**	< 207	**1,090**	**921**	**732**	**877**	**724**	**794**	**643**	**712**	**799**	**767**	**884**	**871**	**608 J+**	**208**	<826	<826

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-J	VP-J DUP	VP-J	VP-J DUP	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	VP-J	VP-J	VP-J	VP-J
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5.00	5.00	5.00	5	5	5	5	5	5	5	5	5	5	5	5
Date	8/31/2021	1/26/2022	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023	12/20/2023	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	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	**3.87**	**6.15**	**3.97**	**6.89**	**6.91**	**7.72**	**9.98**	<2.97	< 24	< 24	--	**130**	**3,600**	**3,800**	**24.4**	**7.97**	<2.97	<2.97	**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	<0.357	<0.626	< 5.0	< 5.0	--	< 3.1	< 50	< 50	< 0.626	< 0.626	<0.626	<0.626	<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	**0.923**	**0.648**	<0.639	**0.984**	**0.731**	<0.228	<0.639	< 5.1	< 5.1	< 6.4	< 3.2	< 51	< 51	**13.30**	**0.901**	<0.639	<0.639	<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	<0.311	<1.04	< 8.3	< 8.3	--	< 5.2	< 83	< 83	< 1.04	< 1.04	<1.04	<1.04	<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	<0.471	<1.34	< 11	< 11	--	< 6.7	< 110	< 110	< 1.34	< 1.34	<1.34	<1.34	<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	<0.757	<6.21	< 50	< 50	--	< 31	< 500	< 500	< 6.21	< 6.21	<6.21	<6.21	<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	<0.381	<0.776	< 6.2	< 6.2	--	< 3.9	< 62	< 62	< 0.776	< 0.776	<0.776	<0.776	<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	<0.230	<4.43	< 35	< 35	--	< 22	< 350	< 350	< 4.43	< 4.43	<4.43	<4.43	<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	<0.622	<0.622	<0.622	<0.317	<0.622	**20**	**18**	--	< 3.1	**140**	**130**	< 0.622	< 0.622	**3.26**	<0.622	<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	<1.26	<1.26	<0.461	<1.26	< 10	< 10	< 13	< 6.3	< 100	< 100	< 1.26	< 1.26	<1.26	<1.26	<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	<0.385	<0.924	< 7.4	< 7.4	--	< 4.6	< 74	< 74	< 0.924	< 0.924	<0.924	<0.924	<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	**1.31**	<0.528	<0.263	<0.528	< 4.2	< 4.2	< 11	< 2.6	< 42	< 42	< 0.528	< 0.528	<0.528	<0.528	<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	<0.349	<0.973	**9.2**	**8.3**	< 9.7	< 4.9	< 78	< 78	< 0.973	< 0.973	<0.973	<0.973	<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	**0.944**	**1.03**	**1.24**	**1.20**	<0.413	**1.20**	**1.17**	<0.413	< 3.3	< 3.3	< 6.2	< 2.1	< 33	< 33	< 0.413	< 0.413	<0.413	<0.413	<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	<0.427	<1.03	< 8.2	< 8.2	--	< 5.2	< 82	< 82	**2.51**	**1.98**	<1.03	<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	<0.259	<0.689	< 5.5	< 5.5	--	< 3.4	< 55	< 55	**16**	**0.881**	<0.689	<0.689	**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	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<0.618	<1.7	< 14	< 14	--	< 8.5	< 140	< 140	< 1.70	< 1.70	<1.7	<1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<2.5	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54	< 12	< 12	< 15	< 7.7	< 120	< 120	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.1	<1.54	<1.54	<1.54	<1.54	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.770	<1.2	< 9.6	< 9.6	--	< 6.0	< 96	< 96	< 1.20	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.09	<1.2	< 9.6	< 9.6	--	< 6.0	< 96	< 96	**70.7**	< 1.20	<1.2	<1.20	<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	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.335	<1.2	< 9.6	< 9.6	< 12	< 6.0	< 96	< 96	< 1.20	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<4.4	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.283	<0.81	< 6.5	< 6.5	--	< 4.0	< 65	< 65	< 0.810	< 0.810	<0.81	<0.810	<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	<0.290	<0.802	< 6.4	< 6.4	< 8.0	< 4.0	< 64	< 64	< 0.802	< 0.802	<0.802	<0.802	<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	<0.302	<0.793	< 6.3	< 6.3	< 7.9	< 4.0	< 63	< 63	< 0.793	< 0.793	<0.793	<0.793	<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	<0.793	<0.793	<0.311	<0.793	< 6.3	< 6.3	< 7.9	< 4.0	< 63	< 63	< 0.793	< 0.793	<0.793	<0.793	<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	<0.267	**1.72**	< 6.3	< 6.3	< 7.9	< 4.0	< 63	< 63	< 0.793	< 0.793	<0.793	<0.793	<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	<0.351	<0.924	< 7.4	< 7.4	< 14	< 4.6	< 74	< 74	< 0.924	< 0.924	<0.924	<0.924	<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	<0.313	<0.908	< 7.3	< 7.3	< 9.1	< 4.5	< 73	< 73	< 0.908	< 0.908	<0.908	<0.908	<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	<0.331	<0.908	< 7.3	< 7.3	< 14	< 4.5	< 73	< 73	< 0.908	< 0.908	<0.908	<0.908	<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	<0.300	<2.27	< 5.8	< 5.8	--	< 3.6	< 58	< 58	< 0.721	< 0.721	<0.721	<0.721	<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	**3.09 J+**	<2.36	**3.77**	**6.15**	**3.56**	**26.8**	**5.81 J+**	<4.71	**11**	< 9.5	--	**120**	**1,500**	**1,700**	**39.8**	**24.9**	**3.87**	<1.19	**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	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867	< 6.9	< 6.9	**22**	< 4.3	< 69	< 69	**6.18**	**1.47**	<0.867	<0.867	<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	<0.384	<0.982	< 7.9	< 7.9	--	< 4.9	< 79	< 79	**8.27**	< 0.982	<0.982	<0.982	<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	**1.55**	**1.37**	**1.88**	**1.42**	**1.38**	**1.44**	**1.12**	**1.55**	< 9.0	< 9.0	--	< 5.6	< 90	< 90	**1.49**	**1.30**	**1.52**	**1.30**	**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	**2.36**	**2.61**	**2.57**	**2.69**	**2.63**	**2.50**	**2.16**	**1.51**	< 7.9	< 7.9	--	< 4.9	< 79	< 79	**1.7**	**2.29**	**1.81**	**1.88**	**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	<0.608	<1.53	< 12	< 12	--	< 7.7	< 120	< 120	< 1.53	< 1.53	<1.53	<1.53	<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	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<0.622	<1.4	< 11	< 11	--	< 7.0	< 110	< 110	< 1.40	< 1.40	<1.4	<1.40	<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	<0.425	<0.818	< 6.5	< 6.5	--	< 4.1	< 65	< 65	**12.5**	**1.02**	<0.818	<0.818	<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	<0.673	<6.73	<6.73	<1.12	<6.73	< 54	< 54	--	< 34	< 540	< 540	< 6.73	< 6.73	<6.73	<6.73	<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	<2.22	<2.22	<2.22	<2.22	<2.22	**2.69**	<0.726	<2.22	< 5.6	< 5.6	--	< 3.5	**530 M**	**3,400M**	**64.7**	**3.12**	<0.705	<0.705	<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	<0.382	<0.983	< 7.9	< 7.9	--	< 4.9	< 79	< 79	< 0.983	< 0.983	<0.983	<0.983	<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	**1.66**	<0.694	<0.694	**1.26**	**2.72**	<0.340	<0.694	< 5.6	< 5.6	--	< 3.5	**59**	**73**	< 0.694	< 0.694	<0.694	<0.694	<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	<0.544	<5.11	< 41	< 41	--	< 26	< 410	< 410	**6.11**	< 5.11	<5.11	<5.11	<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)	<3.69	<3.69	<3.69	**3.83**	<3.69	<3.69	<0.240	<3.69	< 29	< 29	--	**97**	**350**	**350**	**27.7**	< 3.69	<3.69	<3.69	**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	<0.313	<5.12	< 41	< 41	--	**57**	< 410	< 410	< 5.12	< 5.12	<5.12	<5.12	<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	<0.359	<0.819	< 6.6	< 6.6	--	< 4.1	**70**	**82**	< 0.819	< 0.819	<0.819	<0.819	<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	<0.233	<0.721	< 5.8	< 5.8	--	< 3.6	< 58	< 58	< 0.721	< 0.721	<0.721	<0.721	<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	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<1.83	<3.3	< 26	< 26	--	< 16	< 260	< 260	< 3.30	< 3.30	<3.3	<3.30	<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	<3.07	<3.07	<3.07	<3.07	**3.79**	<0.649	<3.07	< 25	< 25	--	**88**	< 250	< 250	**40.1**	**8.82**	<3.07	<3.07	<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	<2.15	**2.62 J+**	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15	**13**	**14**	--	< 3.4	< 55	< 55	**0.975**	< 0.689	<0.689	<0.689	<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	--	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	<0.851	<0.851	<0.851	**2.00**	<0.851	<0.851	<0.335	<0.851	< 6.8	< 6.8	--	< 4.3	< 68	< 68	< 0.851	**1.15**	<0.851	<0.851	<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	<0.511	<1.37	< 11	< 11	< 14	< 6.9	< 110	< 110	< 1.37	< 1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	**111**	< 1.36	**20.9**	< 1.36	**17.7**	< 1.36	< 0.553	**221**	**81,000**	**67,000**	**1,100**	**1,900**	**120,000**	**140,000**	**9.85 M**	**36.9**	**12.6**	**32.0**	**3.09**	**8.16**	**6.52**	**67.8**	**3,910**	**19.1**	**23.6**	**31.1**	**23.0**	**4.58**	**330**	**25.5**
Tetrahydrofuran	<0.590	<0.590	<0.590	**11.3**	<0.59	<0.590	<0.216	<0.59	< 4.7	< 4.7	--	**32**	< 47	< 47	**17**	**1.57**	<0.59	<0.590	<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	<1.88	**2.28**	<1.88	**4.07**	**2.10**	<1.88	<0.328	**3.30**	< 6.0	< 6.0	--	**14**	**900**	**1,100**	**23.7**	**5.08**	<0.753	<0.753	<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	<1.10	<4.66	< 37	< 37	--	< 23	< 370	< 370	< 4.66	< 4.66	<4.66	<4.66	<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	<1.09	<1.09	<0.400	<1.09	< 8.7	< 8.7	< 11	< 5.4	< 87	< 87	< 1.09	< 1.09	<1.09	<1.09	<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	<0.422	<1.09	< 8.7	< 8.7	< 16	< 5.4	< 87	< 87	< 1.09	< 1.09	<1.09	<1.09	<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	**5.18**	<1.07	<0.364	<1.07	**110**	**110**	**12**	**5.9**	**96**	**91**	< 1.07	< 1.07	<1.07	<1.07	<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	<0.375	<0.982	< 7.9	< 7.9	--	**9.8**	< 79	< 79	**9.05**	**1.59**	<0.982	<0.982	<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	<0.382	<0.982	< 7.9	< 7.9	--	< 4.9	< 79	< 79	**2.87**	< 0.982	<0.982	<0.982	<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	<0.621	<0.934	< 7.5	< 7.5	--	< 4.7	< 75	< 75	**29.1**	< 0.934	<0.934	<0.934	<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	<0.243	<0.511	< 4.1	< 4.1	< 5.1	< 2.6	< 41	< 41	< 0.511	< 0.511	<0.511	<0.511	<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	<0.373	<0.875	< 7.0	< 7.0	--	< 4.4	< 70	< 70	< 0.875	< 0.875	<0.875	<0.875	<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 UJ	<0.408	<2.22	< 5.6	< 5.6	< 7.0	< 3.5	< 56	< 56	< 0.704	< 0.704	<0.704	<0.704	<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	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585	<1.73	< 14	< 14	--	**12**	< 140	< 140	**23.4**	**5.09**	<1.73	<1.73	<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	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867	< 6.9	< 6.9	--	**4.8**	< 69	< 69	**7.81**	**1.71**	<0.867	<0.867	<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	<826	<826	<826	<826	<826	<826	<164	<826	**15,000**	**15,000**	--	**1,700**	**74,000**	**74,000**	**1,040**	**208**	**475**	**257**	**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	VP-J DUP	VP-J	VP-J	VP-J	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	10	10	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Date	1/26/2022	7/18/2022	8/18/2022	1/18/2023	4/3/2023	12/20/2023	11/4/2013	4/3/2014[4]	5/12/2014	6/9/2016	9/16/2016	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	11/4/2019	2/25/2020	11/4/2020	8/31/2021	1/26/2022	7/18/2022
Acetone	<2.97	**4.51**	<2.97	<2.97	**3.33**	<2.97	< 59	--	**10,000**	**8.77**	**15.4**	**16.7**	**9.62**	<2.97	**7.58**	**4.48**	**31.2**	<2.97	<2.97	**12.1**	**4.03**	<3.5	<59.4	**7.82**	<2.97	<2.97	<2.97	<2.97	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	< 13	--	< 50	< 0.626	< 0.626	< 0.626	< 0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.3	<12.5	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	**0.668**	<0.639	<0.639	< 13	< 26	< 51	**2.42**	**1.16**	< 0.639	< 0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	**1.06**	<0.639	<0.47	<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	< 21	--	< 83	< 1.04	< 1.04	< 1.04	< 1.04	<1.04	<1.04	<1.04	<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	<1.34	< 27	--	< 110	< 1.34	< 1.34	< 1.34	< 1.34	<1.34	<1.34	<1.34	<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	<6.21	< 120	--	< 500	< 6.21	< 6.21	< 6.21	< 6.21	<6.21	<6.21	<6.21	<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	<0.776	< 16	--	< 62	< 0.776	< 0.776	< 0.776	< 0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<1.1	<15.5	<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	< 89	--	< 350	< 4.43	< 4.43	< 4.43	< 4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.65	<88.5	<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	< 12	--	**160**	< 0.622	< 0.622	< 0.622	< 0.622	<0.622	<0.622	<0.622	<0.622	<0.622	**2.58**	<0.622	<0.622	<0.91	<12.4	<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	< 25	< 50	< 100	< 1.26	< 1.26	< 1.26	< 1.26	**4.65**	<1.26	<1.26	<1.26	<1.26	**1.52**	<1.26	<1.26	<1.8	<25.2	<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	< 18	--	< 74	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<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	<0.528	< 11	< 42	< 42	< 0.528	< 0.528	< 0.528	< 0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.77	<10.6	<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	< 19	< 39	< 78	< 0.973	**17.8**	**1.30**	< 0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.71	<19.5	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	<0.413	<0.413	<0.413	**0.698**	<0.413	<0.413	< 8.3	< 25	< 33	**0.948**	< 0.413	< 0.413	< 0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.6	<8.26	<0.413	<0.413	<0.413	**0.551**	<0.413	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	< 21	--	< 82	< 1.03	**2.23**	< 1.03	< 1.03	<1.03	<1.03	<1.03	<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	< 14	--	< 55	< 0.689	**0.976**	< 0.689	< 0.689	<0.689	<0.689	**2.46**	<0.689	<0.689	<0.689	**0.967**	<0.689	<2.5	<13.8	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<1.70	<1.7	< 34	--	< 140	< 1.70	< 1.70	< 1.70	< 1.70	<1.7	<1.70	<1.7	<1.7	<1.70	<1.70	<1.70	<1.70	<2.5	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	< 31	< 62	< 120	< 1.54	< 1.54	< 1.54	< 1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.1	<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	<1.20	<1.2	< 24	--	< 96	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	< 24	--	< 96	**84.5**	< 1.20	**1.35**	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	**10.6**	<1.20	<1.8	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.2	< 24	< 48	< 96	< 1.20	< 1.20	< 1.20	< 1.20	<1.2	<1.20	<1.2	<1.2	<1.20	<1.20	<1.20	<1.20	<4.4	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.810	<0.81	< 16	--	< 65	< 0.810	< 0.810	< 0.810	< 0.810	<0.81	<0.810	<0.81	<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	<0.802	< 16	< 32	< 64	< 0.802	< 0.802	< 0.802	< 0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<1.2	<16.0	<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	< 16	< 32	< 63	< 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	<15.9	<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	< 16	< 32	< 63	< 0.793	< 0.793	< 0.793	< 0.793	**1.94**	<0.793	<0.793	**1.08**	<0.793	<0.793	<0.793	<0.793	<1.2	<15.9	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.924	<0.793	<0.793	< 16	< 32	< 63	< 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	<15.9	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.908	<0.924	<0.924	< 18	< 55	< 74	< 0.924	< 0.924	< 0.924	< 0.924	<0.924	<0.924	<0.924	<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	<0.908	< 18	< 36	< 73	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.721	<0.908	<0.908	< 18	< 54	< 73	< 0.908	< 0.908	< 0.908	< 0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<1.3	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<2.36	<0.721	<2.27	< 14	--	< 58	< 0.721	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<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	<2.36	**37.0**	<2.36	**53.7**	<4.71	**10.1**	< 24	--	**1,800**	**16**	**56.5**	**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	**17.10**	<1.19	**5.86**	<2.36	<2.36	<2.36
Ethylbenzene	<0.867	<0.867	<0.867	<0.982	<0.867	<0.867	< 17	< 52	< 69	**3.25**	**1.68**	< 0.867	< 0.867	<0.867	<0.867	<0.867	**1.55**	<0.867	<0.867	**1.72**	<0.867	<1.3	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<1.12	<0.982	<0.982	< 20	--	< 79	**1.7**	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**3.5**	<0.982	<3.6	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	**1.30**	**1.75**	**1.38**	**1.65**	**2.66**	**1.45**	< 22	--	< 90	**1.35**	**1.83**	**1.78**	**1.35**	**5.27**	**1.92**	**1.97**	**2.31**	**1.43**	**3.97**	**1.8**	**2.14**	<1.6	<22.5	**1.20**	**1.54**	**1.84**	**1.48**	<1.12	**2.13**
Dichlorodifluoromethane	**2.60**	**2.46**	**2.41**	**7.67**	**25.1**	**1.83**	< 20	--	< 79	**1.83**	**4.31**	**4.9**	**2.59**	**11.6**	**3.25**	**4.45**	**3.62**	**1.71**	**11.7**	**3.05**	**4.05**	**2.1**	<19.8	**2.04**	<0.989	**4.35**	**2.75**	**2.83**	**2.54**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	< 31	--	< 120	< 1.53	< 1.53	< 1.53	< 1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<2.2	<30.7	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<1.40	<1.4	< 28	--	< 110	< 1.40	< 1.40	< 1.40	< 1.40	<1.4	<1.40	<1.4	<1.4	<1.40	<1.40	<1.40	<1.40	<2	<28.0	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
Heptane	<0.818	<0.818	<0.818	**1.66**	<0.818	<0.818	< 16	--	< 65	**2.72**	**0.969**	< 0.818	< 0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	**1.49**	<0.818	<1.2	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<0.673	<2.22	<6.73	<6.73	< 130	--	< 540	< 6.73	< 6.73	< 6.73	< 6.73	<6.73	<6.73	<6.73	<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	<2.22	<2.22	<2.22	**7.47**	<2.22	<2.22	< 14	--	**1,800**	**3.54**	**4.13**	< 0.705	< 0.705	<0.705	<0.705	<0.705	**2.07**	<0.705	<0.705	**3.26**	<0.705	<1	<14.1	**1.57**	<0.705	<2.22	<2.22	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.694	<0.983	<0.983	< 20	--	< 79	< 0.983	< 0.983	< 0.983	< 0.983	<0.983	<0.983	<0.983	<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	**2.58**	<0.694	**15.2**	<0.694	**1.21**	< 14	--	**76**	**0.813**	< 0.694	< 0.694	< 0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	**3.47**	<0.694	<5.1	<13.9	**1.50**	<0.694	<0.694	<0.694	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<3.69	<5.11	<5.11	< 100	--	< 410	< 5.11	< 5.11	< 5.11	< 5.11	<5.11	<5.11	<5.11	<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	<5.12	<3.69	<3.69	< 74	--	**380**	**7.53**	< 3.69	< 3.69	< 3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	**7.32**	<3.69	<4.3	<73.7	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<0.819	<5.12	<5.12	< 100	--	< 410	< 5.12	< 5.12	< 5.12	< 5.12	<5.12	<5.12	<5.12	<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	<0.721	<0.819	<0.819	< 16	--	98	**0.927**	< 0.819	< 0.819	< 0.819	<0.819	<0.819	<0.819	<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	<3.30	<0.721	<0.721	< 14	--	< 58	< 0.721	< 0.721	< 0.721	< 0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<14.4	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.07	<3.30	<3.3	< 66	--	< 260	< 3.30	< 3.30	< 3.30	< 3.30	<3.3	<3.30	<3.3	<3.3	<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	**3.44**	<3.07	**5.75**	<3.07	<3.07	< 61	--	< 250	**16.7**	**7.44**	< 3.07	< 3.07	<3.07	<3.07	<3.07	**37.2**	<3.07	<3.07	**6.34**	<3.07	<3.6	<61.5	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07
Propene	<2.15	<2.15	<2.15	<0.982	<2.15	<2.15	**16**	--	< 55	< 0.689	**0.762**	< 0.689	< 0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.5	<13.8	<0.689	<0.689	<0.689	<2.15	<2.15	<2.15
n-Propylbenzene	<0.982	<0.982	<0.982	<0.851	<0.982	<0.982	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.982	<0.982
Styrene	<0.851	<0.851	**1.08**	<1.37	<0.851	<0.851	< 17	--	< 68	**1.11**	**0.95**	< 0.851	< 0.851	<0.851	<0.851	<0.851	<0.851	<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	<1.36	<1.37	<1.37	< 27	< 55	< 110	< 1.37	< 1.37	< 1.37	< 1.37	<1.37	<1.37	<1.37	<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	**10.8**	**47.3**	**46.4**	**445**	**876**	**3.84**	**120,000**	**49,000**	**240,000**	**109 M**	**325**	**340**	**278 M**	**3,480**	**1,240**	**695**	**1,810**	**339**	**1,010**	**262**	**950**	**460**	**3,300**	**565**	**315**	**1,030**	**1,390**	**747**	**602**
Tetrahydrofuran	<0.590	<0.590	<0.590	<1.88	<0.590	<0.59	< 12	--	< 47	**25.2**	< 0.590	< 0.590	< 0.590	<0.59	<0.590	<0.59	**2.93**	<0.590	<0.590	**13.7**	<0.590	<0.86	<11.8	**1.36**	<0.590	<0.590	<0.590	<0.590	<0.590
Toluene	<1.88	<1.88	<1.88	**3.54**	<1.88	<1.88	< 15	--	**1,100**	**17**	**5.32**	< 0.753	< 0.753	<0.753	<0.753	<0.753	**1.64**	<0.753	<0.753	**6.58**	<0.753	<1.1	<0.753	**1.07**	<0.753	<1.88	<1.88	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	< 93	--	< 370	< 4.66	< 4.66	< 4.66	< 4.66	<4.66	<4.66	<4.66	<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	<1.09	< 22	< 44	< 87	< 1.09	< 1.09	< 1.09	< 1.09	**2.20**	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.6	<21.8	<1.09	<1.09	<1.09	**1.19**	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	< 22	< 65	< 87	< 1.09	< 1.09	< 1.09	< 1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.8	<1.09	<1.09	<1.09	**10.4**	<1.09	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	**91**	< 43	**170**	< 1.07	< 1.07	< 1.07	< 1.07	**2.62**	**2.10**	<1.07	**1.79**	<1.07	<1.07	<1.07	**1.24**	<0.79	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	< 20	--	< 79	**6.02**	**1.61**	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**4.59**	<0.982	<1.4	<0.982	<0.982	<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	< 20	--	< 79	**1.7**	< 0.982	< 0.982	< 0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	**1.34**	<0.982	<1.4	<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	< 19	--	< 75	**1.99**	< 0.934	< 0.934	< 0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<3.4	<18.7	<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	< 10	< 20	< 41	< 0.511	< 0.511	< 0.511	< 0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.37	<10.2	<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	< 17	--	< 70	< 0.875	< 0.875	< 0.875	< 0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<1.3	<17.5	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<2.22	< 14	< 28	< 56	< 0.704	< 0.704	< 0.704	< 0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1	<14.1	<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	< 35	--	< 140	**14.1**	**6.13**	< 1.73	< 1.73	<1.73	<1.73	<1.73	**6.36**	<1.73	<1.73	**7.37**	<1.73	<2.5	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	< 17	--	< 69	**4.89**	**1.99**	< 0.867	< 0.867	<0.867	<0.867	<0.867	**2.02**	<0.867	<0.867	**2.96**	<0.867	<1.3	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867
TPHg	<826	<826	<826	<826	**983**	<826	**31,000**	--	**110,000**	**495**	**511**	**1,270**	**651**	**2,060**	**812**	**575**	**2,220**	**431 J+**	**1,010**	**467**	**1,580**	**653**	**1,920**	**541**	<826	<4,130	**1,960 J+**	**938**	**913**

See notes at end of table.

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

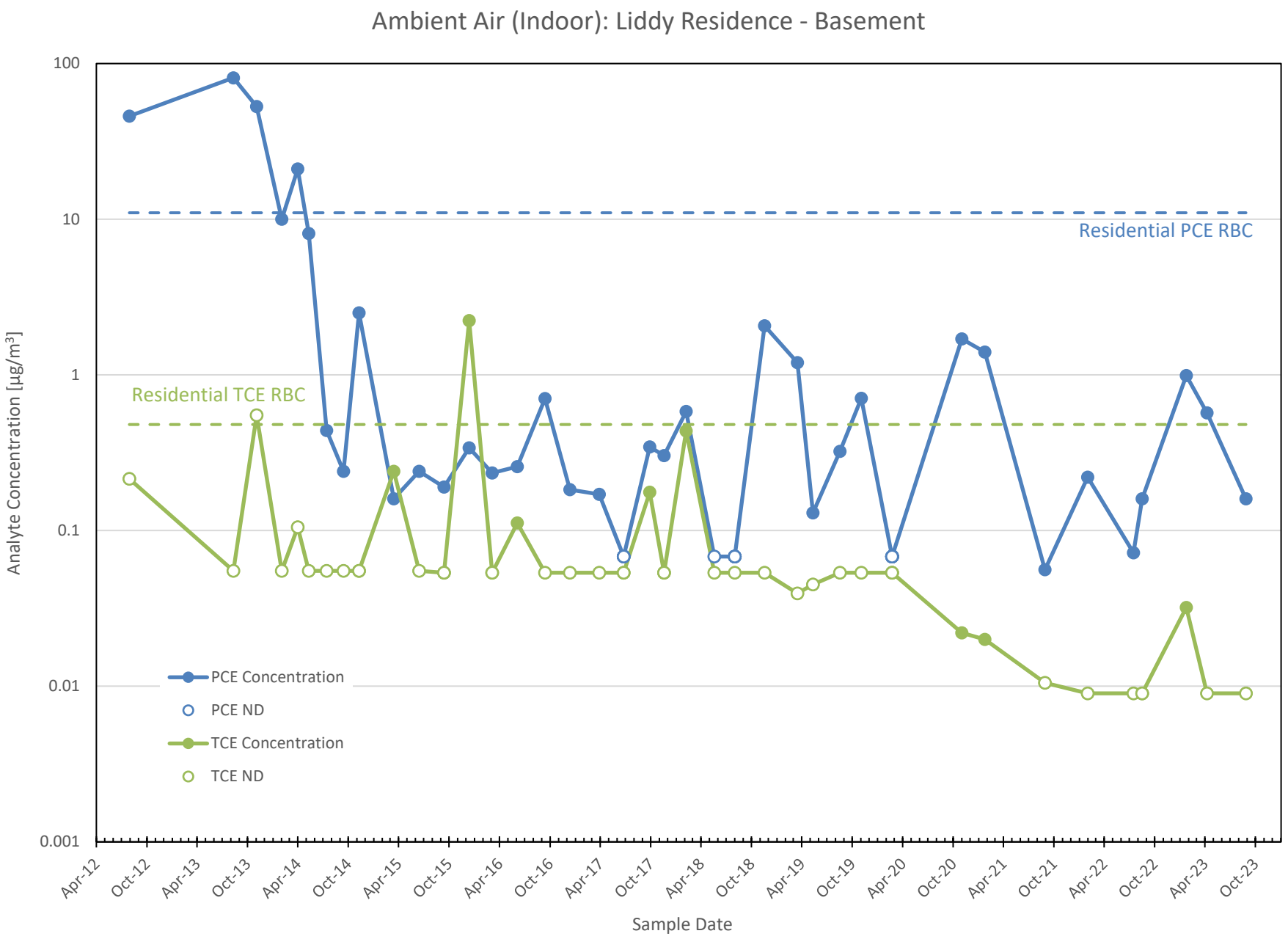
Sample Location	VP-J	VP-J	VP-J	VP-J	VP-J (15)
Depth (ft bgs)	15	15	15	15	15
Date	8/18/2022	1/18/2023	4/3/2023	8/22/2023	12/20/2023
Acetone	**3.18**	<2.97	**3.59**	**4.49**	<2.97
Allyl Chloride	<0.626	<0.626	<0.626	<0.357	<0.626
Benzene	<0.639	<0.639	<0.639	<0.228	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<0.311	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<0.471	<1.34
Bromoform	<6.21	<6.21	<6.21	<0.757	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.381	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<0.230	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.317	**1.29**
Carbon Tetrachloride	<1.26	<1.26	<1.26	<0.461	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.385	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.263	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.349	<0.973
Chloromethane	<0.413	<0.413	<0.413	<0.213	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<0.427	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.259	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<0.618	<1.7
1,2-Dibromoethane	<1.54	<1.54	<1.54	<0.554	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<0.770	<1.2
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.09	<1.2
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<0.335	<1.2
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.283	<0.81
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.290	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.302	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.311	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.267	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.351	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.313	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.331	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.300	<2.27
Ethanol	<2.36	**10.5**	**6.09 J+**	**19.0**	<4.71
Ethylbenzene	<0.867	<0.867	<0.867	<0.362	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.384	<0.982
Trichlorofluoromethane	**1.58**	**1.44**	**1.55**	**1.15**	**1.12**
Dichlorodifluoromethane	**2.18**	**3.91**	**5.14**	**1.80**	**2.08**
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<0.608	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<0.622	<1.4
Heptane	<0.818	<0.818	<0.818	<0.425	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<1.12	<6.73
n-Hexane	<2.22	<2.22	<2.22	<0.726	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.382	<0.983
Methylene Chloride	<0.684	**3.09**	<0.694	**2.27**	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<0.544	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<0.240	<3.69
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<0.313	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.359	<0.819
MTBE	<0.721	<0.721	<0.721	<0.233	<0.721
Naphthalene	<3.30	<3.30	<3.30	**5.24**	<3.3
2-Propanol	<3.07	<3.07	<3.07	**4.38**	<3.07
Propene	<2.15	<2.15	<2.15	<0.160	<2.15
n-Propylbenzene	<0.982	<0.982	<0.982	<0.379	<0.982
Styrene	**1.32**	<0.851	<0.851	<0.335	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.30	<1.37	<0.511	<1.37
Tetrachloroethylene	**1,040**	**70.6**	**91.7**	**2.78**	**492**
Tetrahydrofuran	<0.590	<0.590	<0.590	<0.216	<0.59
Toluene	<1.88	<1.88	<1.88	**2.05**	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	**7.4**	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<0.400	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<0.422	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<0.364	<1.07
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.375	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.382	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.621	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.243	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.373	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704 UJ	<0.408	<2.22
m&p-Xylene	<1.73	<1.73	<1.73	<0.585	<1.73
o-Xylene	<0.867	<0.867	<0.867	<0.359	<0.867
TPHg	**1,450**	<826	<826	<164	<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
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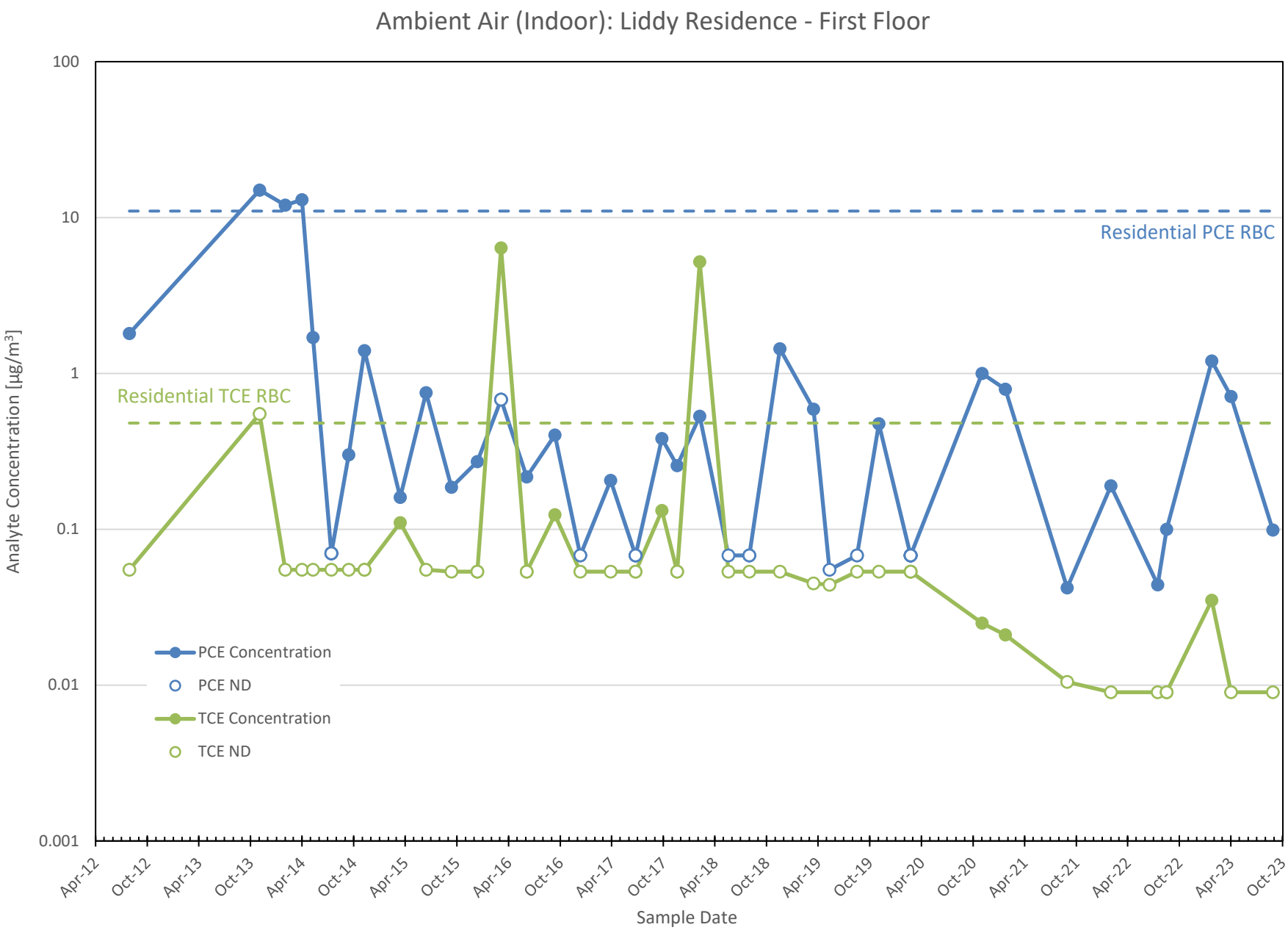
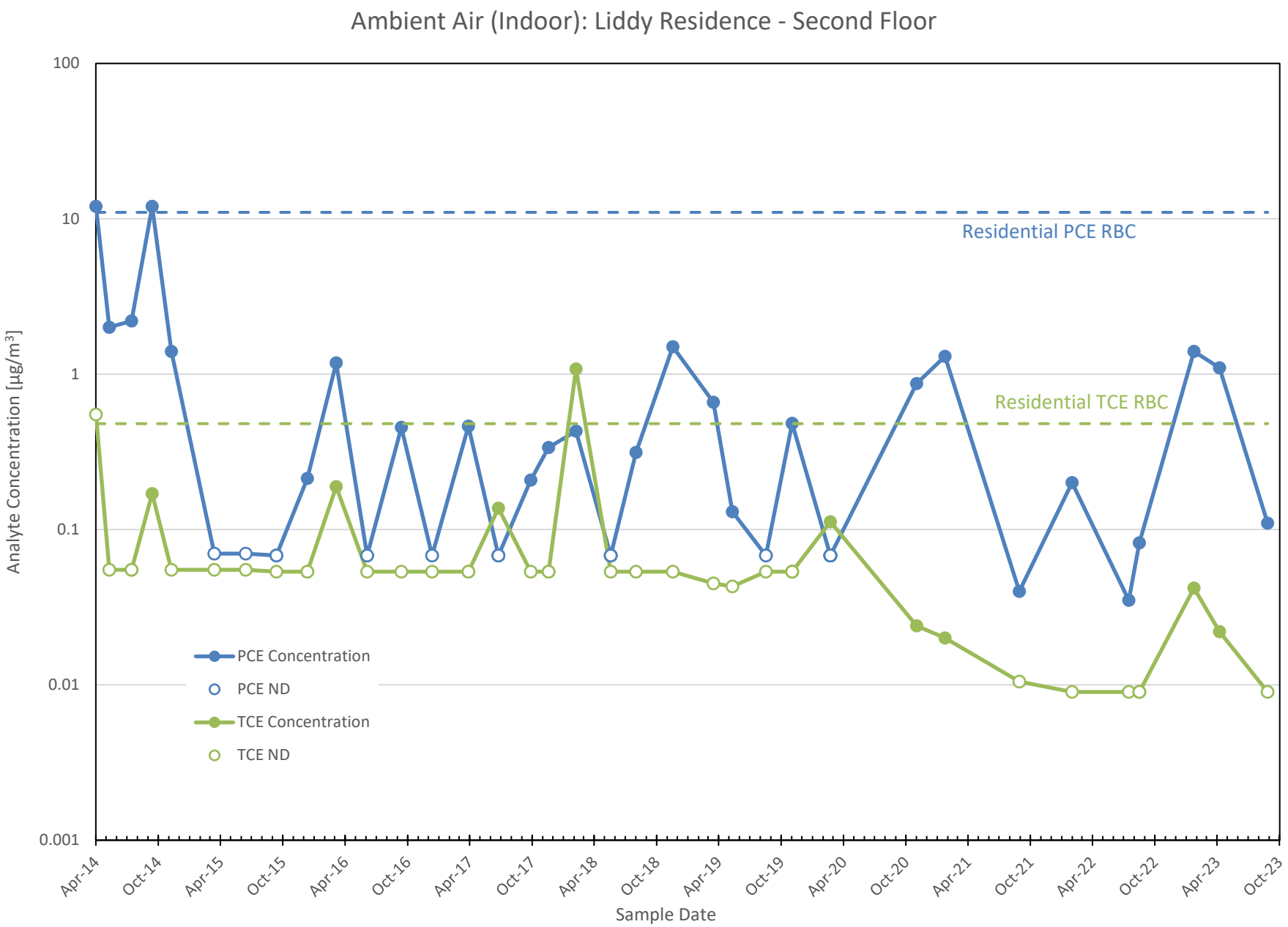
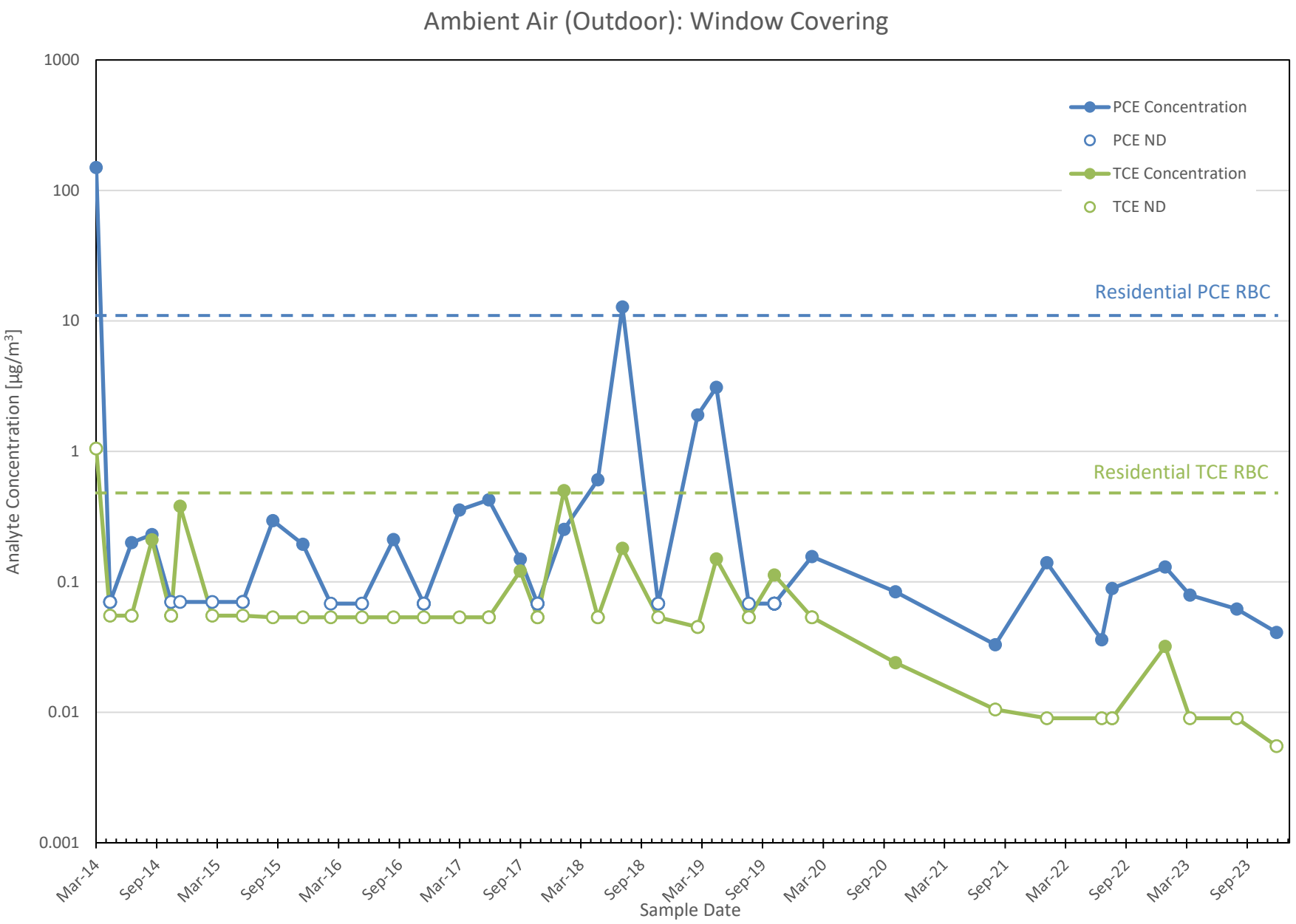
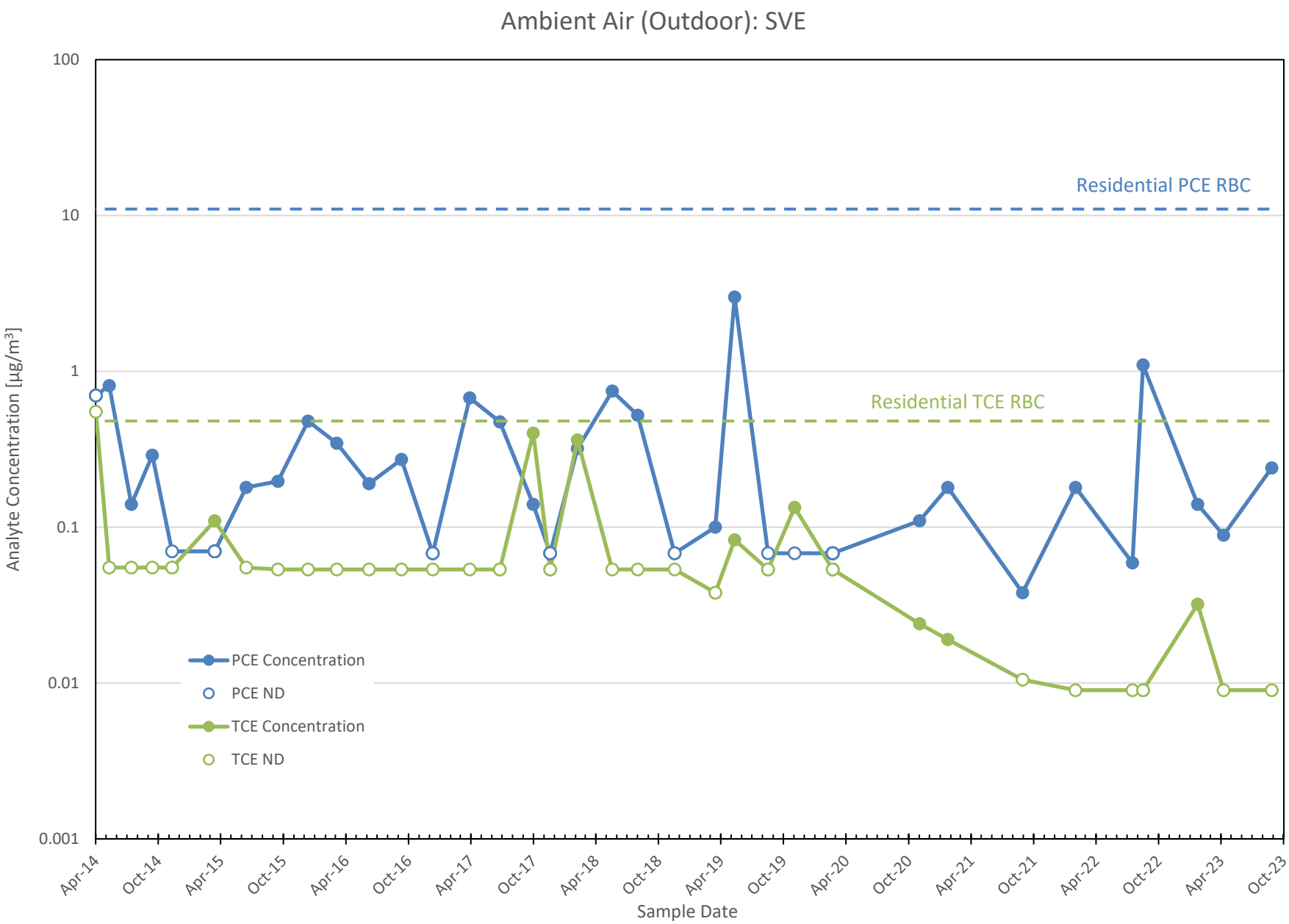
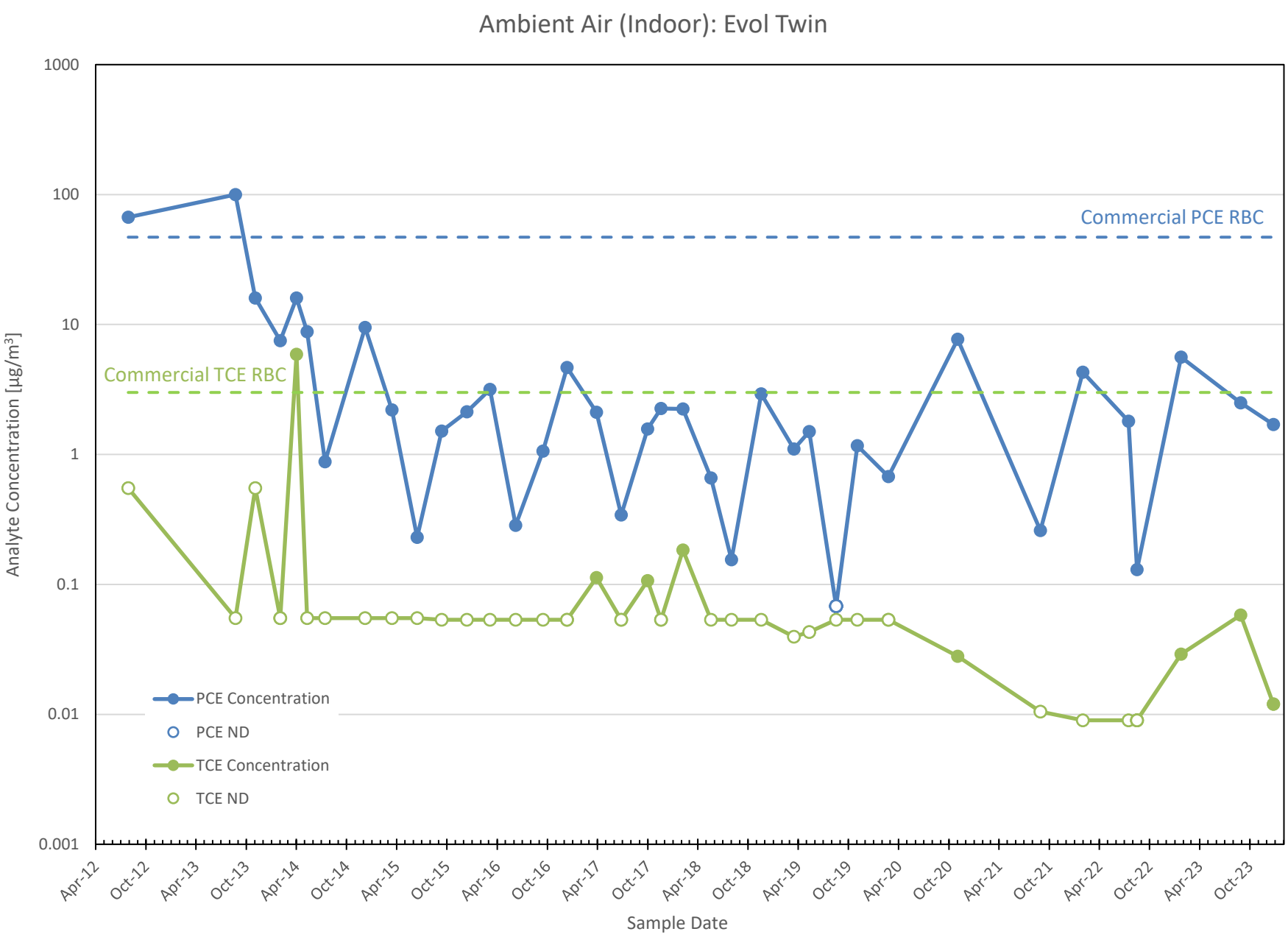
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Sample Date


Ambient Air (Indoor): Liddy Residence - First Floor
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
Sample Date


Ambient Air (Indoor): Liddy Residence - Second Floor
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
Sample Date


Ambient Air (Outdoor): Window Covering
Analyte Concentration [µg/m³]
1000
100
10
1
0.1
0.01
0.001
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
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
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
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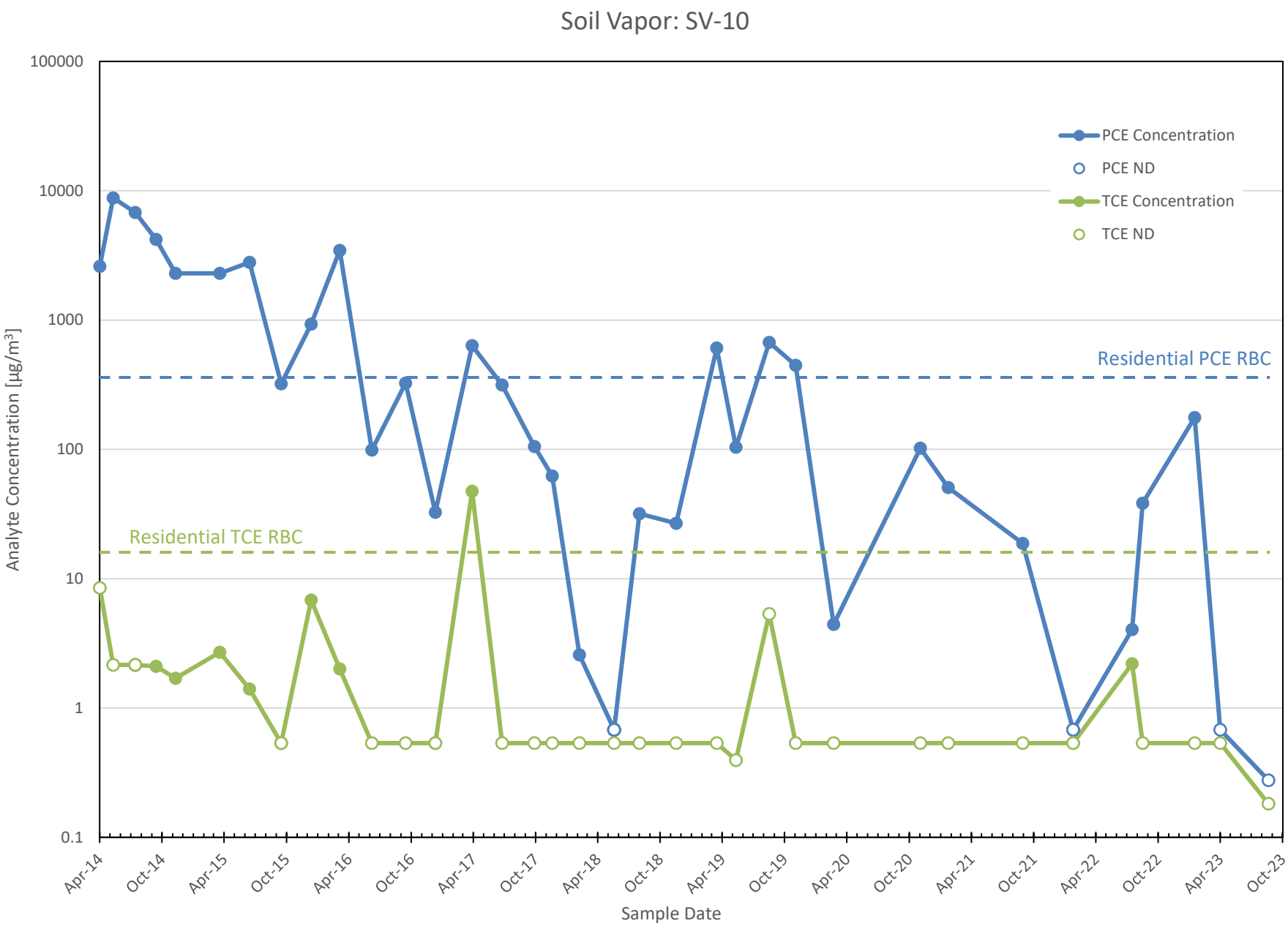
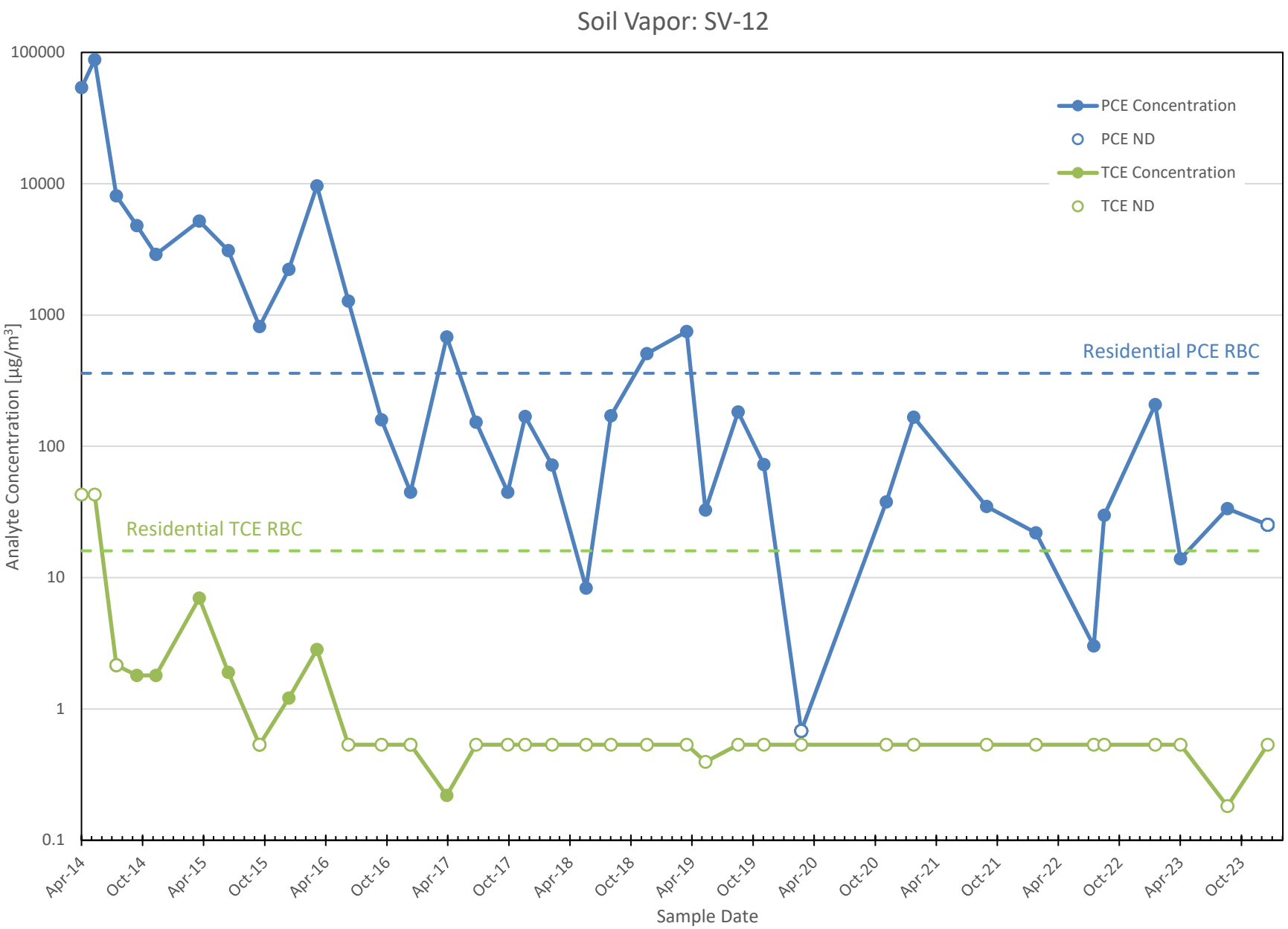
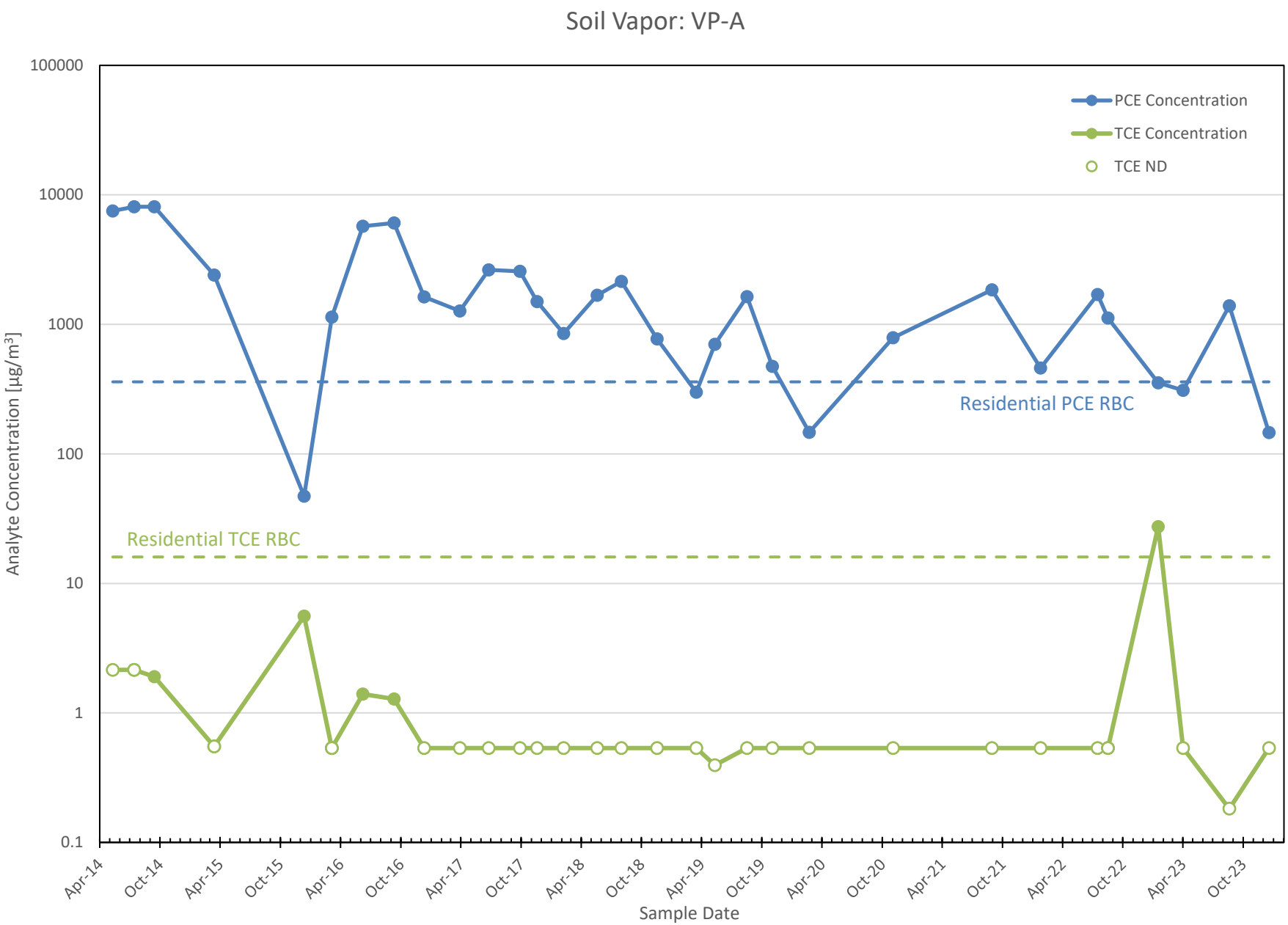
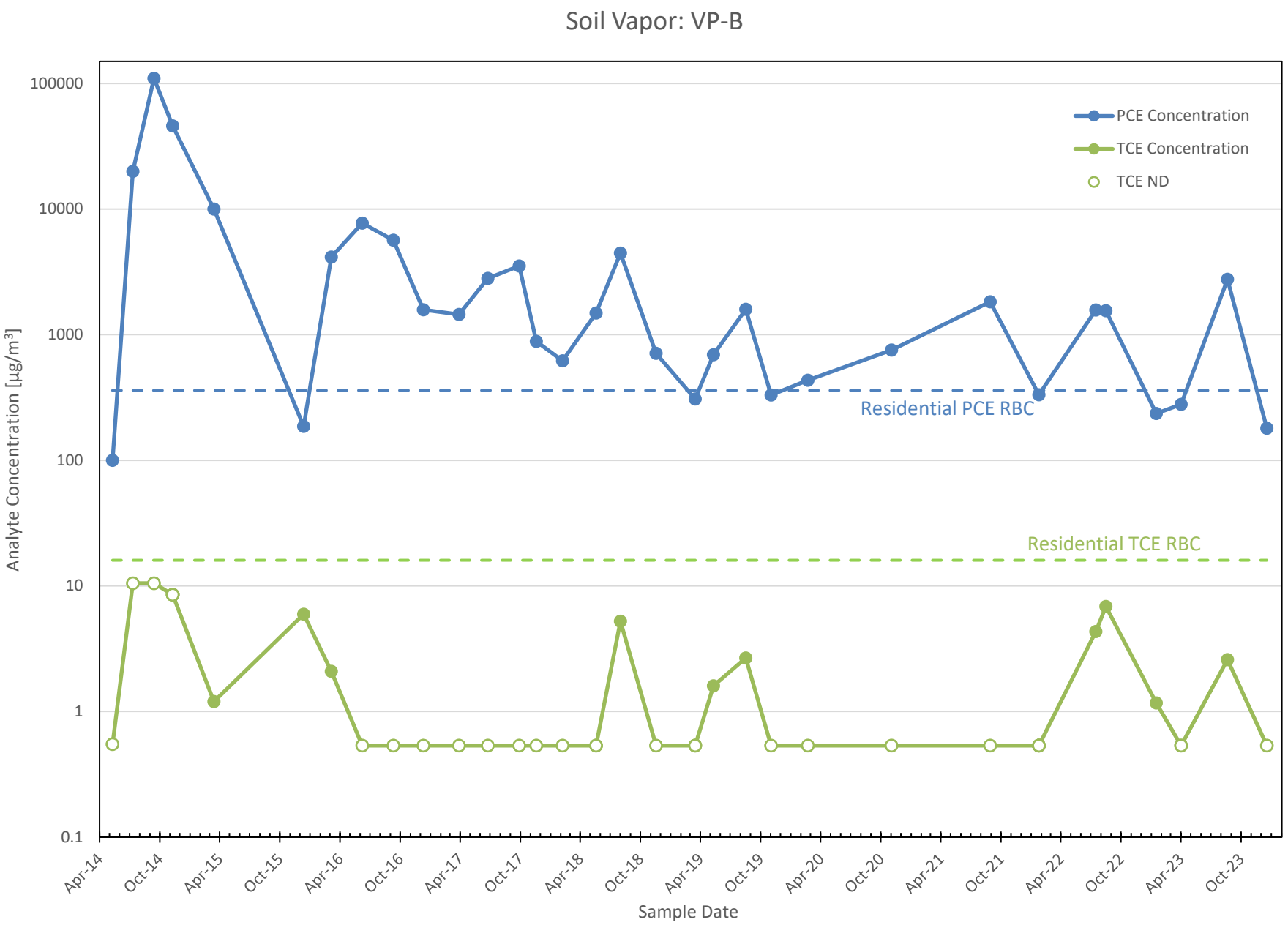
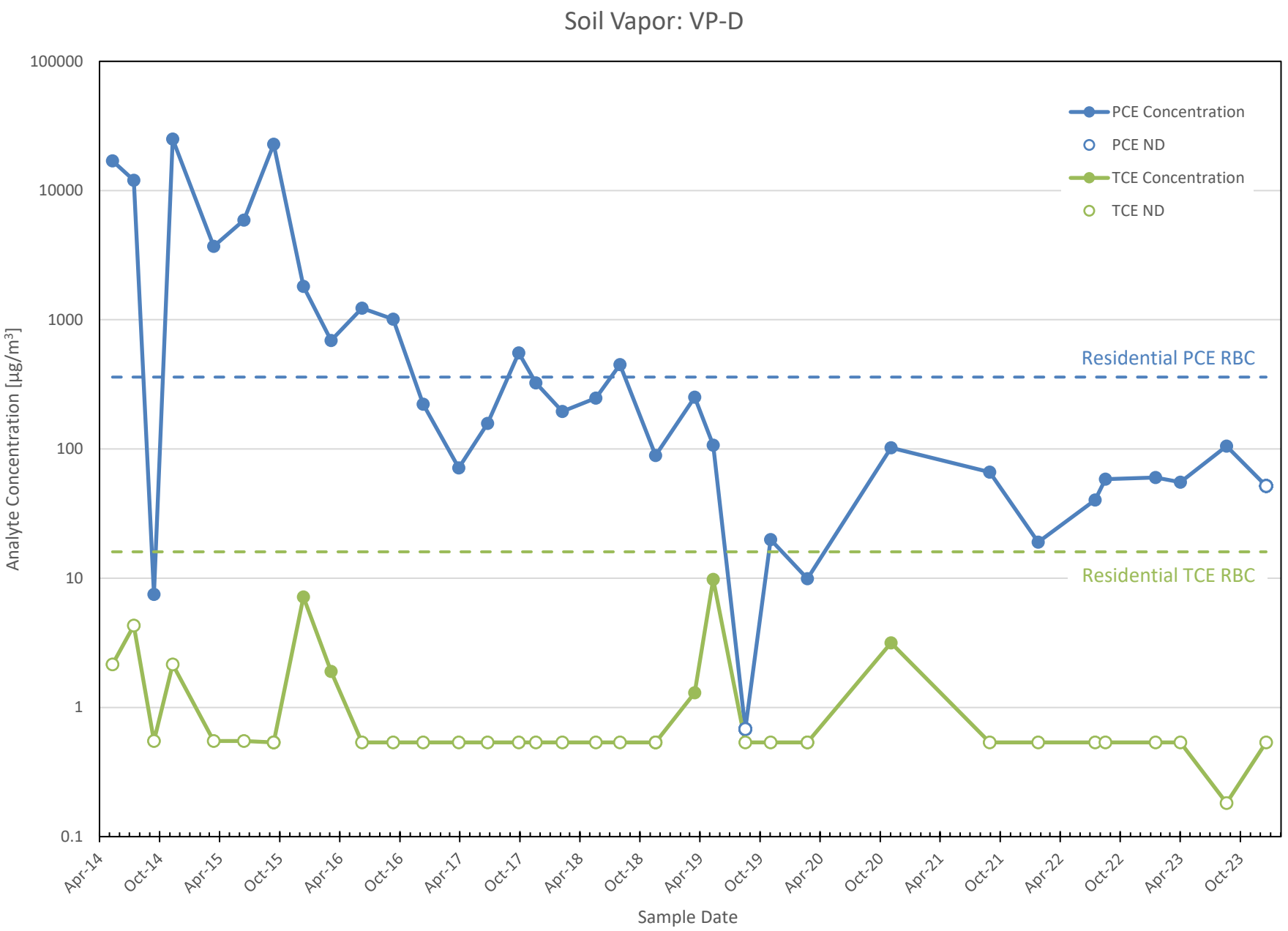
Apr-22
Oct-22
Apr-23
Oct-23
Sample Date

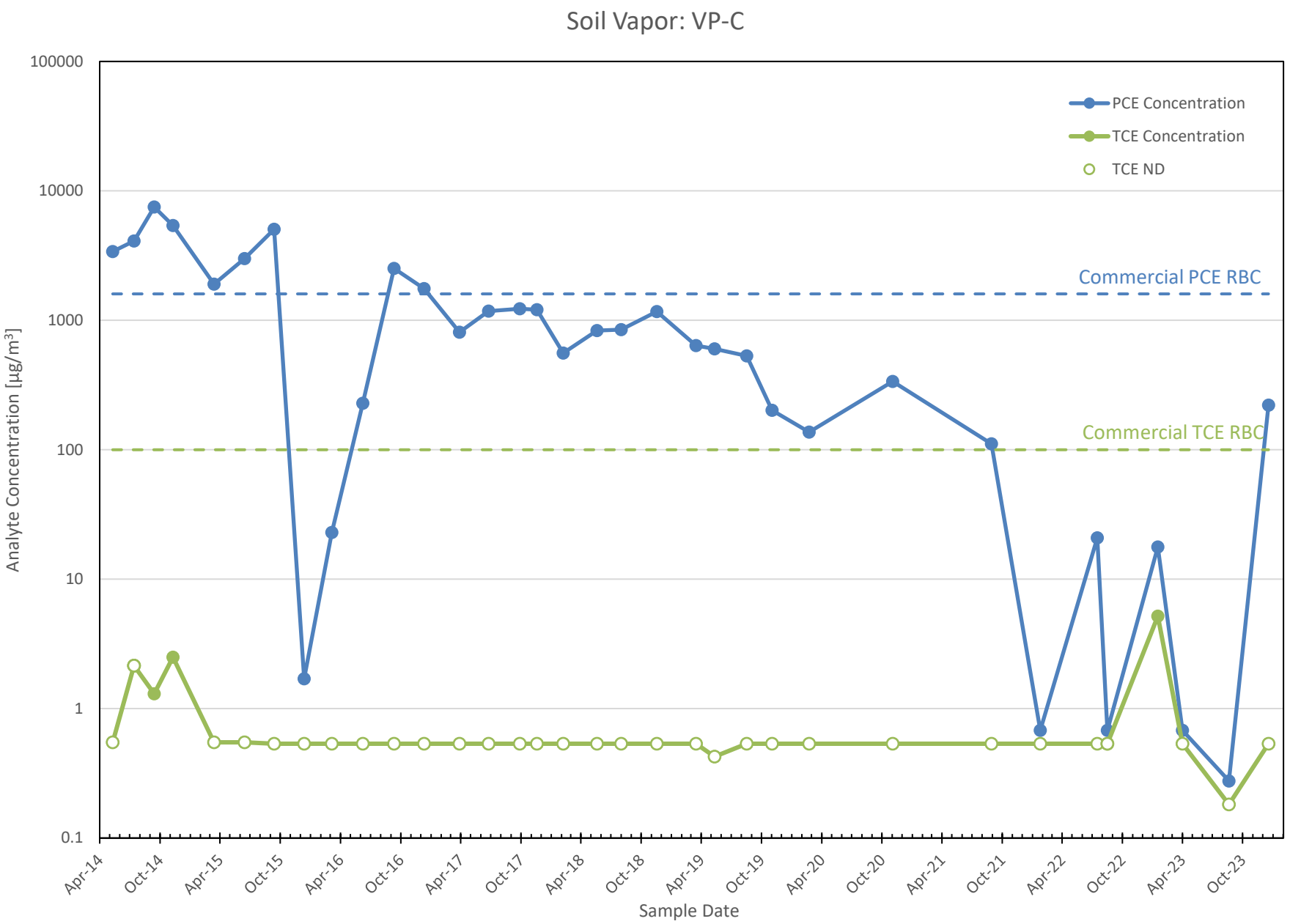

Soil Vapor: SV-10
100000
10000
1000
100
10
1
0.1
Analyte Concentration [µg/m³]
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Residential PCE RBC
Residential TCE RBC
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23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

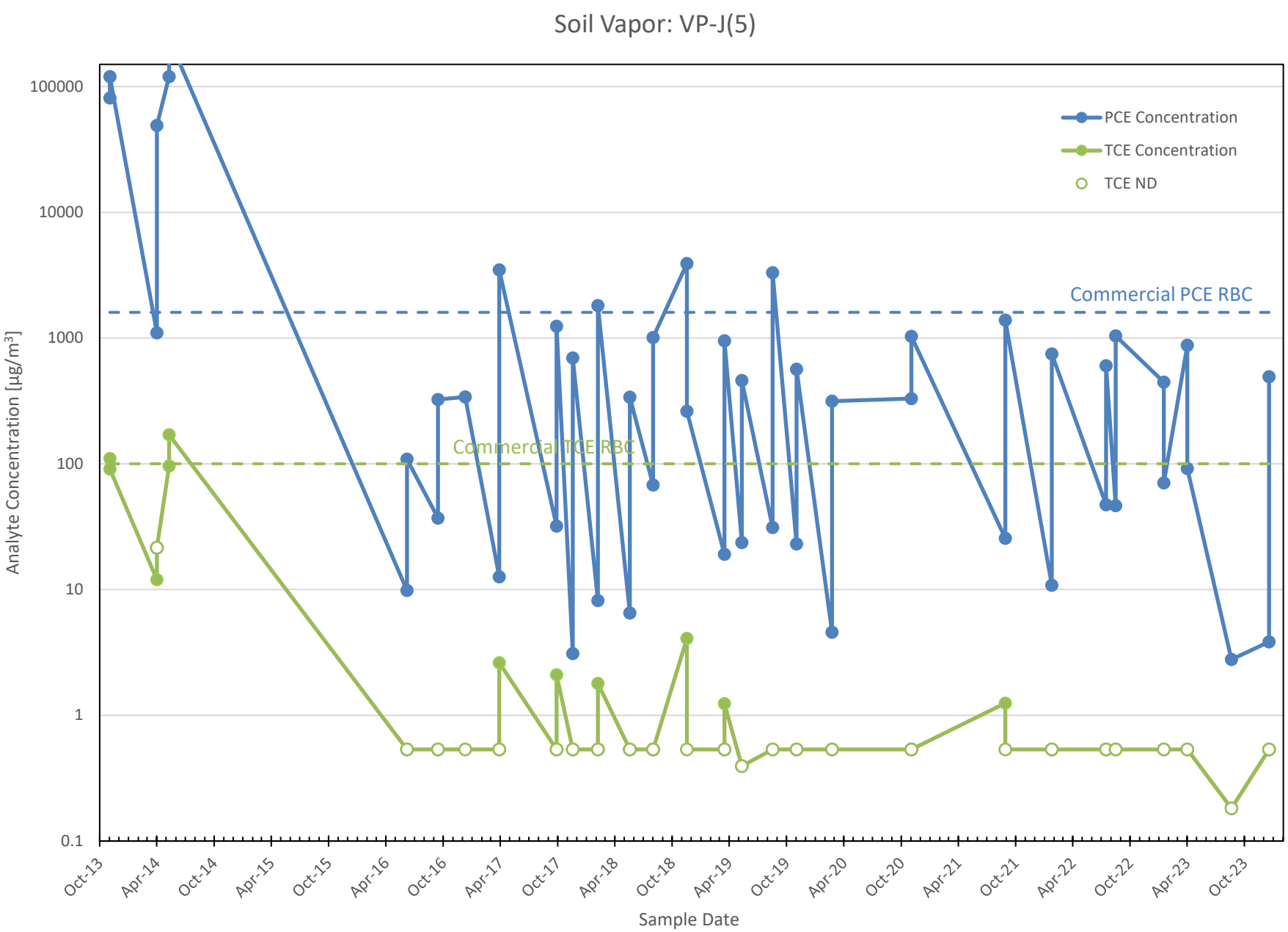

Soil Vapor: SV-12
100000
10000
1000
100
10
1
0.1
Analyte Concentration [µg/m³]
PCE Concentration
PCE ND
TCE Concentration
TCE ND
Residential PCE RBC
Residential TCE RBC
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23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


Soil Vapor: VP-A
100000
10000
1000
100
10
1
0.1
Analyte Concentration [µg/m³]
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
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
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
Oct-20
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Sample Date


Soil Vapor: VP-C
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-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
Sample Date


Soil Vapor: VP-J(5)
PCE Concentration
TCE Concentration
TCE ND
Commercial PCE RBC
Commercial TCE RBC
Analyte Concentration [µg/m³]
100000
10000
1000
100
10
1
0.1
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
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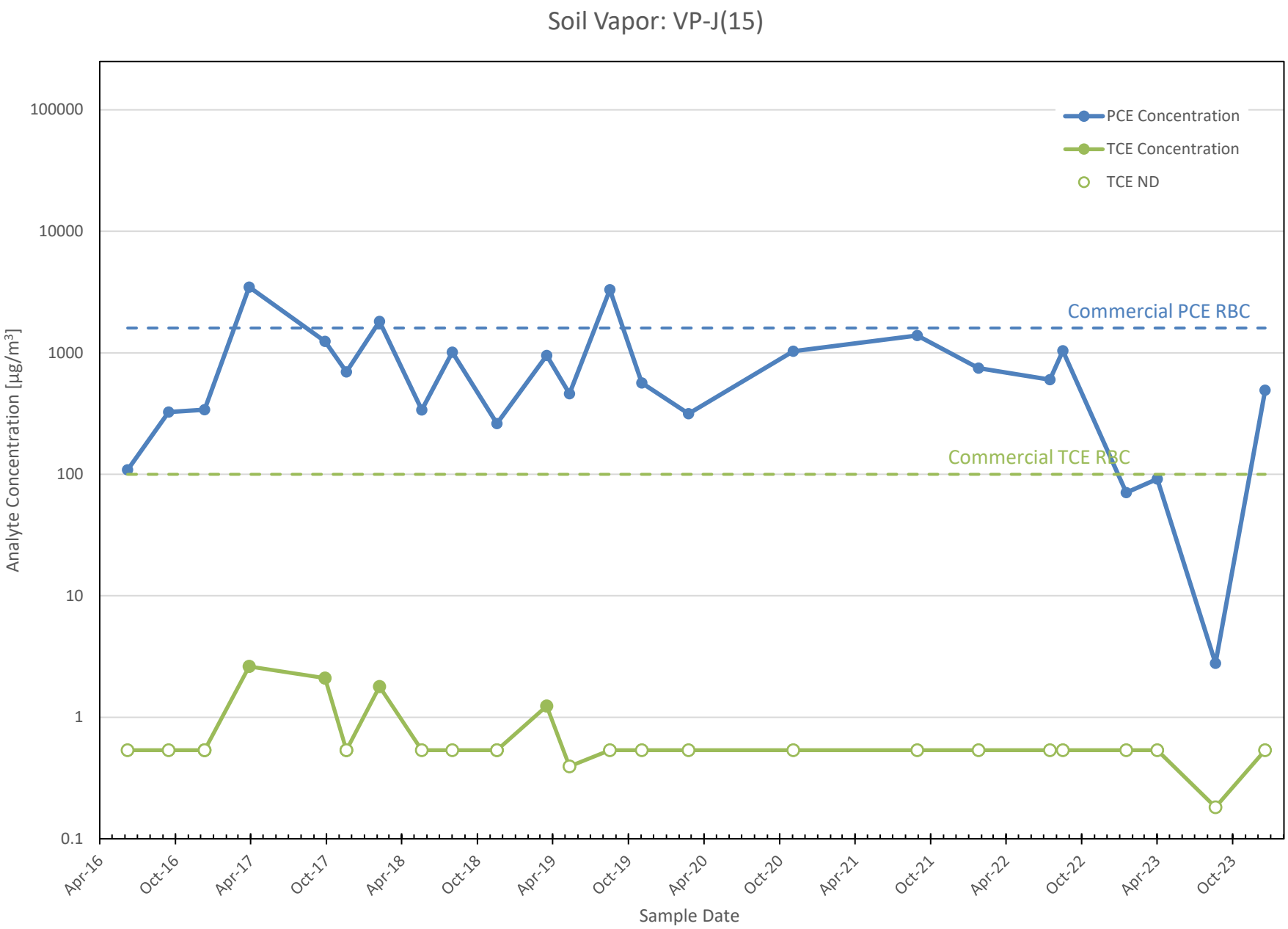
Apr-21
Oct-21
Apr-22
Oct-22
Apr-23
Oct-23
Sample Date


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
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
Average Concentration - Based on Field Observations of SVE System			
	On	0.199	0.205
	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