



***Air Assessment Report
July 2024 Sampling
Former Ellis Dry Cleaners
Portland, Oregon
ECSI No. 5612***

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

**November 5, 2024
32-24005460/Task 3**



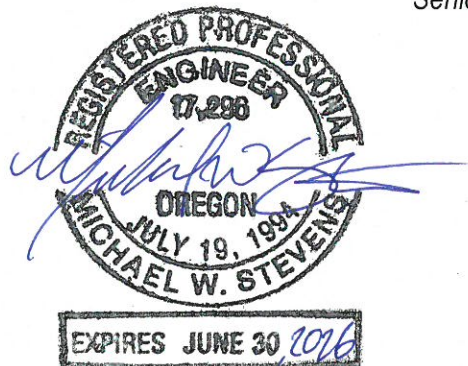
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A handwritten signature in blue ink, reading 'Carmen Owens'.

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Table of Contents

1.0 INTRODUCTION	1
1.1 Background	1
1.2 Scope of Work	3
1.3 Deviations from Scope of Work	3
2.0 PRE-SAMPLING ACTIVITIES	3
3.0 SAMPLING AND MAINTENANCE ACTIVITIES	4
3.1 Ambient Air Sampling	4
3.2 Soil Vapor Sampling	4
4.0 CHEMICAL ANALYSES AND RESULTS	4
4.1 Ambient Air Results	5
4.2 Soil Vapor Results	6
5.0 CONCLUSIONS.....	7
6.0 REFERENCES	8

Tables

1	Ambient Air Analytical Results – Residential
2	Ambient Air Analytical Results – Commercial
3	Soil Vapor Analytical Results – Residential
4	Soil Vapor Analytical Results – Commercial

Figures

1	Site Location Map
2	Site Plan
3	PCE Concentrations in Ambient Air
4	PCE Concentrations in Soil Vapor

Appendices

A	Analytical Laboratory Reports and Data Quality Review
B	Historical Data Tables and Trend Plots
C	SVE Ambient Air Comparison

1.0 Introduction

This report presents the results of ambient air and soil vapor sampling conducted from July 23 through July 31, 2024, to support the soil vapor and indoor air assessment associated with the former Ellis Dry Cleaners site (the Site) located at 3300 North Williams Avenue in Portland, Oregon (see Figures 1 and 2). This report was prepared for the Oregon Department of Environmental Quality (DEQ) under Task 3 of Task Order No. 066-23-11.

1.1 Background

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

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 in July 2018 and was restarted in April 2019. The onsite SVE system was again temporarily shut down in September 2020 and January 2021. A timer was installed on the SVE system in June 2021, and the system has subsequently operated between 8:00 a.m. and 5:00 p.m. daily, unless otherwise noted below.

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

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

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

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

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

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

1.2 Scope of Work

The work described in this report consists of the collection of ambient air and soil vapor samples in July 2024 from properties adjacent to the former Ellis Dry Cleaners site. Based on analytical results indicating a consistent lack of risk to off-site receptors as documented by previous years of monitoring, DEQ reduced the scope of sampling relative to prior events. Specifically, areas where two samples were located near each other were reduced to one sample, and the frequency was reduced from quarterly to semi-annual monitoring to capture the seasonal variation (wet vs dry seasons) observed in soil vapor PCE concentrations. The purpose of the sampling is to assess the current risk from vapor intrusion in buildings and the effectiveness of the vapor control system, and to allow a determination as to whether further remedial action may be needed.

The scope of work for this sampling event included:

- Collection of four 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;
 - One indoor air sample in the basement of the Liddy residence, east of the Site;
 - One indoor air sample inside of the former Evol Twin building, north of the Site;
- Collection of seven soil vapor samples:
 - One sample from an SVE well on the Liddy property;
 - Two samples from north of the Site (point 'J'), between the Site and the former Evol Twin Building;
 - Four 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

There were no deviations from the scope of work during this sampling event.

2.0 Pre-Sampling Activities

Site Health and Safety Plan. A Site-specific health and safety plan (HASP) was previously prepared for the investigation activities (included in the Work Plan; Apex, 2013). The HASP was prepared in general accordance with the Occupational Safety and Health Administration (OSHA) and the Oregon Administrative Rules (OAR). A copy of the HASP was maintained on-site during the field activities.

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

3.0 Sampling and Maintenance Activities

3.1 Ambient Air Sampling

On July 23, 2023, Radiello RAD 130 passive ambient air samplers were deployed in the Liddy residence basement, former Evol Twin, background SVE, and background (former Window Coverings) locations, as shown on Figure 2. The four passive samplers were retrieved on July 31, 2024, for a total exposure period of eight days. The samplers were analyzed by Environmental Protection Agency (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 eight-day period was between 29.8 and 30.2 inches of mercury. The pressure was relatively steady over the period, beginning and ending at 30.0 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 July 23, 2024, six soil vapor samples were collected in accordance with the Sampling and Analysis Plan (SAP) in Appendix B of the Work Plan (Apex, 2013). The soil vapor samples were each collected over a sampling interval of 30 minutes 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 longer vacuum being applied to the three Liddy SVE wells. The sample locations are indicated on Figure 2.

4.0 Chemical Analyses and Results

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

The soil vapor samples were analyzed for VOCs by 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 are of acceptable quality, with data qualifications flagged on the tables as appropriate. The Radiello passive sampler TO-17 analysis method does not include the full list of analytes that is represented in the TO-15 method and the data tables, but the TO-17 method 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 Tables 1 and 2 and shown on Figure 3. 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).

Liddy Residence. PCE and TCE were not detected above laboratory MRLs in the sample collected from the Liddy basement. Benzene was also not detected above the MRL, but the MRL was slightly above the applicable chronic RBC (at 0.5 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$] compared to $0.36 \mu\text{g}/\text{m}^3$). Benzene is also not associated with the historical dry-cleaning operations and was not detected above MRL in the background samples.

Following the improvements that were made to the SVE system in 2015, indoor air concentrations of PCE and TCE within the Liddy residence have consistently been significantly lower than historical concentrations (by at least one order of magnitude). During this event, neither PCE or TCE were detected above MRLs ($0.17 \mu\text{g}/\text{m}^3$ and $0.14 \mu\text{g}/\text{m}^3$, respectively). These are reductions of at least 99 percent compared to the historical highs for both PCE and TCE.

Former Evol Twin Print Shop. The Evol Twin sample was collected inside the building north of the Site. No analytes were detected above commercial ambient air RBCs. PCE was detected at $3.0 \mu\text{g}/\text{m}^3$, which is slightly increased compared to the December sampling event. However, this concentration is below the commercial RBC and well below the historical high of $100 \mu\text{g}/\text{m}^3$. TCE was not detected above the MRL.

Background Samples. Two outdoor ambient air samples were collected to compare to indoor air samples as well as to distinguish between concentrations that are sourced from soil vapor in the vicinity of the building and those that are indicative of the regional air quality. One sample was collected from the courtyard behind the former Evol Twin building (referred to as Background Window Covering), and one sample was collected adjacent to the SVE system (referred to as Background SVE).

No analytes were detected above applicable RBCs in the background samples. Neither PCE nor TCE were detected above MRLs in either Background Window Covering or Background SVE.

4.2 Soil Vapor Results

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

Residential Vapor Points. 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 82.8 $\mu\text{g}/\text{m}^3$. PCE concentrations in this well remain consistently below the chronic RBC for soil vapor in residential settings (360 $\mu\text{g}/\text{m}^3$) and significantly below historical highs (88,000 $\mu\text{g}/\text{m}^3$). TCE was not detected above the MRL.

Vapor point VP-B is located on the west side of North Williams Avenue (Figure 2) adjacent to mixed commercial and residential buildings. PCE was detected above both the chronic and acute RBCs (a detected concentration of 1,940 $\mu\text{g}/\text{m}^3$ compared to the RBCs of 360 $\mu\text{g}/\text{m}^3$ and 1,400 $\mu\text{g}/\text{m}^3$, respectively). TCE was detected below applicable RBCs at 1.52 $\mu\text{g}/\text{m}^3$.

PCE concentrations have historically varied in 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 July 2024 sampling event are an order of magnitude higher than the December 2023 event, but well within recent variability and significantly lower than historical highs. Concentrations in VP-B are also approximately four times higher than the next highest concentration (VP-J [15]). While PCE concentrations exceed the residential RBCs in 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.

Vapor point VP-D is located on the south side of Northeast Cook Street and adjacent to a property (10 NE Cook St) that reportedly will be developed for mixed commercial and residential uses. PCE was detected at 55.3 $\mu\text{g}/\text{m}^3$, which is below residential RBCs. TCE was detected at 118 $\mu\text{g}/\text{m}^3$, which is above the chronic and acute RBCs of 16 $\mu\text{g}/\text{m}^3$ and 70 $\mu\text{g}/\text{m}^3$, respectively. This is the highest concentration of TCE that has been detected at this location since monitoring began in 2014. Historical concentrations have generally been below or only slightly above the method detection limit, which ranges from 0.36 $\mu\text{g}/\text{m}^3$ to 1.07 $\mu\text{g}/\text{m}^3$. This property is currently vacant, so there is no risk of exposure at this time. Additional monitoring will identify whether this higher concentration is a persistent trend or an abnormality.

DEQ is not aware that construction activities have begun at the south adjacent property near VP-D. Construction activities have the potential to exacerbate contamination by creating preferential pathways for vapors to migrate via utility corridors. DEQ has met with the 10 NE Cook St property's project design team to relay DEQ's concerns regarding installation of subsurface utilities from the public right-of-way and potentially exacerbating contamination. DEQ recommended the use of mitigation techniques to prevent migration of contaminant vapors from the Site to the south adjacent property. According to the email from the senior project designer dated July 10, 2024, Portland Water Bureau determined controlled density fill or controlled low strength material (flowable fill) would be acceptable to meet DEQ's recommendations. Monitoring of VP-D will continue until preferential pathway and vapor intrusion concerns for the proposed off-site development and existing homes are resolved.

Commercial Vapor Points. Vapor points VP-C and VP-J (5 and 15) are located on or adjacent to commercial properties and are therefore screened against commercial soil vapor RBCs (Figure 2). No analytes were detected at a concentration above the commercial soil vapor RBCs. TCE was not detected above the MRL in any of the commercial property samples, while PCE was detected in all three samples. PCE concentrations in VP-C (197 µg/m³) and VP-J (15) (446 µg/m³) are slightly lower than in the December 2023 sampling event, well below the RBC for soil vapor in commercial settings (1,600 µg/m³), and also well below historical high concentrations. The concentration of PCE in VP-J (5) was slightly higher than in December 2023, but lower than the January and April 2023 monitoring event by two orders of magnitude.

5.0 Conclusions

PCE concentrations in soil vapor samples collected during the July 2024 event were generally higher than those collected in the December 2023 event as expected based on seasonal fluctuations. 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.

PCE was detected in one ambient sample (Evol Twin) at a concentration well below the commercial RBC. TCE was not detected above MRLs in indoor ambient air (Liddy residence and Evol Twin) or outdoor ambient air (Background SVE and Background Window Covering).

Concentrations of PCE in soil vapor adjacent to residential properties (VP-B, VP-D, and SV-12) were higher in July 2024 as compared to December 2023 which is consistent with seasonal variation observed at these locations (higher concentrations are observed during warmer, dryer months). The highest concentration of PCE was observed in VP-B, which is consistent with previous sampling events. The concentration of TCE in VP-D was historically high. Monitoring of VP-D will continue until preferential pathway and vapor intrusion concerns for existing homes and the proposed adjoining off-site development to the south across NE Cook St are resolved.

Concentrations of PCE and TCE in soil vapor adjacent to commercial properties (VP-J [5], VP-J [15], and VP-C) have fluctuated historically and since the restart of the SVE system in June 2023. However, concentrations were consistent between the December 2023 and July 2024 event.

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 – Residential
Former Ellis Dry Cleaners

Sample Location	Liddy	Background	Background	RBCair	
	Basement	Window Covering	SVE	Residential	
Date	7/31/2024	7/31/2024	7/31/2024	Chronic	Acute
VOCs by TO-17	Concentrations in $\mu\text{g}/\text{m}^3$				
Benzene	<0.50	<0.50	<0.50	0.36	29
Carbon Tetrachloride	0.26	0.26	0.24	--	--
Chloroethane	--	--	--	--	--
Chloroform	0.26	<0.13	<0.13	--	--
Chloromethane	--	--	--	--	--
Cyclohexane	0.69	<0.18	<0.18	6,300	--
1,2-Dibromoethane	--	--	--	--	--
1,4-Dichlorobenzene	<0.19	<0.19	<0.19	--	--
1,2-Dichloroethane	<0.13	<0.13	<0.13	--	--
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	--	--	--	--	--
Ethyl Benzene	0.28	<0.14	<0.14	1.1	22,000
Toluene	4.4	0.40	0.44	5,200	7,500
Styrene	<0.16	<0.16	<0.16	1,000	21,000
1,1,2,2-Tetrachloroethane	--	--	--	--	--
Tetrachloroethene	<0.17	<0.17	<0.17	11	41
1,1,1-Trichloroethane	<0.16	<0.16	<0.16	--	--
1,1,2-Trichloroethane	--	--	--	--	--
Trichloroethene	<0.14	<0.14	<0.14	0.48	2.1
m,p-Xylene	0.89	0.24	0.28	100	8,700
o-Xylene	0.24	<0.15	<0.15	100	8,700
Vinyl Chloride	--	--	--	--	--
Vinyl Acetate	--	--	--	--	--

Notes:

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

$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter.

Bold values indicate concentration detected above the minimum reporting limit.

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

VOCs = Volatile organic compounds.

Samples were collected using Radiello 145 passive samplers and were analyzed by modified EPA Method T

-- = Not available.

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

Sample Location	Evol Twin Shop	Background Window Covering	Background SVE	RBC _{air}	
				Commercial	
Date	7/31/2024	7/31/2024	7/31/2024	Chronic	Acute
VOCs by TO-17	Concentrations in µg/m ³				
Benzene	<0.50	<0.50	<0.50	1.6	87
Carbon Tetrachloride	0.23	0.26	0.24	--	--
Chloroethane	--	--	--	--	--
Chloroform	0.24	<0.13	<0.13	--	--
Chloromethane	--	--	--	--	--
Cyclohexane	0.57	<0.18	<0.18	26,000	--
1,2-Dibromoethane	--	--	--	--	--
1,4-Dichlorobenzene	<0.19	<0.19	<0.19	--	--
1,2-Dichloroethane	<0.13	<0.13	<0.13	--	--
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	--	--	--	--	--
Ethyl Benzene	0.38	<0.14	<0.14	4.9	66,000
Toluene	2.0	0.40	0.44	22,000	23,000
Styrene	<0.16	<0.16	<0.16	4,400	63,000
1,1,2,2-Tetrachloroethane	--	--	--	--	--
Tetrachloroethene	3.0	<0.17	<0.17	47	120
1,1,1-Trichloroethane	<0.16	<0.16	<0.16	--	--
1,1,2-Trichloroethane	--	--	--	--	--
Trichloroethene	<0.14	<0.14	<0.14	3	6.3
m,p-Xylene	0.78	0.24	0.28	--	26,000
o-Xylene	0.30	<0.15	<0.15	440	26,000
Vinyl Chloride	--	--	--	--	--
Vinyl Acetate	--	--	--	--	--

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/m³ = Micrograms per cubic meter.

Bold values indicate concentration detected above the minimum reporting limit.

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

VOCs = Volatile organic compounds.

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

-- = Not available.

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

Sample Location	SV-12	VP-B	VP-D	RBC _{sv}	
Depth (ft bgs)	10-20	5	5	Residential	
Date	7/23/2024	7/23/2024	7/23/2024	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m ³				
Acetone	<2.97	8.41	4.85	--	2,100,000
Allyl Chloride	<0.626	<0.626	<0.626	16	--
Benzene	<0.639	<0.639	<0.639	12	970
Benzyl Chloride	<1.04	<1.04	<1.04	1.9	8,000
Bromodichloromethane	<1.34	<1.34	<1.34	2.5	--
Bromoform	<6.21	<6.21	<6.21	85	--
Bromomethane	<0.776	<0.776	<0.776	170	130,000
1,3-Butadiene	<4.43	<4.43	<4.43	3.1	22,000
Carbon Disulfide	<1.24	<1.24	<1.24	24,000	210,000
Carbon Tetrachloride	<1.26	<1.26	<1.26	16	63,000
Chlorobenzene	<0.924	<0.924	<0.924	1700	--
Chloroethane	<0.528	<0.528	<0.528	140,000	1,300,000
Chloroform	<0.973	<0.973	<0.973	4.1	16,000
Chloromethane	<0.413	<0.413	<0.413	3,100	33,000
2-Chlorotoluene	<1.03	<1.03	<1.03	--	--
Cyclohexane	<0.689	<0.689	<0.689	210000	--
Dichlorodifluoromethane	2.14	2.09	3.12	--	--
1,2-Dibromoethane	<1.54	<1.54	<1.54	0.16	--
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	7000	--
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	--	--
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	8.5	400,000
1,2-Dichloroethane	<0.810	<0.810	<0.810	3.6	--
1,1-Dichloroethane	<0.802	<0.802	<0.802	59	--
1,1-Dichloroethene	<0.793	<0.793	<0.793	7,000	6,700
cis-1,2-Dichloroethene	<0.793	<0.793	0.959	1,400	--
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	1,400	26,000
1,2-Dichloropropane	<0.924	<0.924	<0.924	25	7,700
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	19	240,000
Ethanol	<4.71	<4.71	6.30	--	--
Ethylbenzene	<0.867	<0.867	<0.867	37	730,000
4-Ethyltoluene	<0.982	<0.982	<0.982	--	--
Trichlorofluoromethane	1.23	1.31	1.31	--	--
Dichlorodifluoromethane	2.14	2.09	3.12	3,500	--
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	170,000	--
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	--	--
Heptane	<0.818	<0.818	<0.818	14,000	--
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	4.3	--
n-Hexane	<2.22	<2.22	<2.22	24,000	--

Please see notes at the end of the table.

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

Sample Location	SV-12	VP-B	VP-D	RBC _{sv}	
Depth (ft bgs)	10-20	5	5	Residential	
Date	7/23/2024	7/23/2024	7/23/2024	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m ³				
Isopropylbenzene	<0.983	<0.983	<0.983	14,000	--
Methylene Chloride	<0.694	<0.694	<0.694	3,400	70,000
Methyl Butyl Ketone	<5.11	<5.11	<5.11	1,000	--
2-Butanone (MEK)	<3.69	<3.69	<3.69	170,000	170,000
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	100,000	--
Methyl methacrylate	<0.819	<0.819	<0.819	24,000	--
Methyl Tert-Butyl Ether	0.760	<0.721	<0.721	360	270,000
Naphthalene	<3.30	<3.30	<3.30	2.8	6,700
2-Propanol	<3.07	<3.07	<3.07	7,000	110,000
Propene	<2.15	<2.15	<2.15	100,000	--
n-Propylbenzene	<0.982	<0.982	<0.982	35,000	--
Styrene	<1.70	<1.70	<1.70	35,000	700,000
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	1.6	--
Tetrachloroethene	82.8	1,940	55.3	360	1,400
Tetrahydrofuran	<0.590	<0.590	<0.590	70,000	--
Toluene	<1.88	<1.88	<1.88	170,000	250,000
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	70	--
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	170,000	370,000
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	5.9	--
Trichloroethene	<1.07	1.52	118	16	70
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	2,100	--
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	2,100	--
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	--	--
Vinyl Chloride	<0.511	<0.511	<0.511	5.6	43,000
Vinyl Bromide	<0.875	<0.875	<0.875	6.2	--
Vinyl Acetate	<2.22	<2.22	<2.22	7,000	6,700
m&p-Xylene	<1.73	<1.73	<1.73	3,500	8,700
o-Xylene	<0.867	<0.867	<0.867	3,500	8,700
TPH (GC/MS) Low Fraction	<826	1,360 J+	<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/m³ = Micrograms per cubic meter.

Bold values indicate concentration detected above the minimum reporting limit.

Shaded values exceed one or more RBC.

VOCs = Volatile organic compounds.

-- = Not available.

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

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

Location	VP-C	VP-J (5)	VP-J (15)	RBC _{SV}	
Depth (ft bgs)	5	5	15	Commercial	
Date	7/23/2024	7/23/2024	7/23/2024	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m ³				
Acetone	5.42	18.5	5.68	--	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	<1.24	<1.24	<1.24	100,000	630,000
Carbon Tetrachloride	<1.26	<1.26	<1.26	68	190,000
Chlorobenzene	<0.924	<0.924	<0.924	7300	--
Chloroethane	<0.528	<0.528	<0.528	580,000	4,000,000
Chloroform	<0.973	<0.973	<0.973	18	50,000
Chloromethane	<0.413	<0.413	<0.413	13,000	100,000
2-Chlorotoluene	<1.03	<1.03	<1.03	--	--
Cyclohexane	<0.689	<0.689	<0.689	880,000	--
Chlorodibromomethane	<1.70	<1.70	<1.70	--	--
1,2-Dibromoethane	<1.54	<1.54	<1.54	0.68	--
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	29000	--
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	--	--
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	37	1,200,000
1,2-Dichloroethane	<0.810	<0.810	<0.810	16.0	--
1,1-Dichloroethane	<0.802	<0.802	<0.802	260	--
1,1-Dichloroethene	<0.793	<0.793	<0.793	29,000	20,000
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	5,800	--
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	5,800	80,000
1,2-Dichloropropane	<0.924	<0.924	<0.924	110	23,000
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	--	--
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	--	--
1,4-Dioxane	<2.27	<2.27	<2.27	82	730,000
Ethanol	<4.71	<4.71	<4.71	--	--
Ethylbenzene	<0.867	<0.867	<0.867	160	2,200,000
4-Ethyltoluene	<0.982	<0.982	<0.982	--	--
Trichlorofluoromethane	1.29	<1.12	1.50	--	--
Dichlorodifluoromethane	1.93	2.40	8.36	15,000	--
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	730,000	--
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	--	--
Heptane	<0.818	<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 4
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	7/23/2024	7/23/2024	7/23/2024	Chronic	Acute
VOCs by TO-15	Concentrations in µg/m ³				
Isopropylbenzene	<0.983	<0.983	<0.983	58,000	--
Methylene Chloride	<0.694	<0.694	<0.694	41,000	210,000
Methyl Butyl Ketone	<5.11	<5.11	<5.11	4,400	--
2-Butanone (MEK)	<3.69	<3.69	<3.69	730,000	500,000
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	440,000	--
Methyl methacrylate	<0.819	<0.819	<0.819	100,000	--
Methyl Tert-Butyl Ether	<0.721	<0.721	<0.721	1,600	800,000
Naphthalene	<3.30	<3.30	<3.30	12.0	20,000
2-Propanol	<3.07	<3.07	<3.07	29,000	320,000
Propene	<2.15	<2.15	<2.15	440,000	--
n-Propylbenzene	<0.982	<0.982	<0.982	150,000	--
Styrene	<1.70	<1.70	<1.70	150,000	2,100,000
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	7.1	--
Tetrachloroethene	197	5.87	446	1,600	4,000
Tetrahydrofuran	<0.590	<0.590	<0.590	290,000	--
Toluene	<1.88	<1.88	<1.88	730,000	770,000
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	290	--
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	730,000	1,100,000
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	26.0	--
Trichloroethene	<1.07	<1.07	<1.07	100	210
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	8,800	--
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	8,800	--
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	--	--
Vinyl Chloride	<0.511	<0.511	<0.511	93.0	130,000
Vinyl Bromide	<0.875	<0.875	<0.875	27.0	--
Vinyl Acetate	<2.22	<2.22	<2.22	29,000	20,000
m&p-Xylene	<1.73	<1.73	<1.73	15,000	870,000
o-Xylene	<0.867	<0.867	<0.867	15,000	--
TPH (GC/MS) Low Fraction	<826	<826	<826	40,000	--

Notes:

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

µg/m³ = Micrograms per cubic meter.

Bold values indicate concentration detected above the minimum reporting limit.

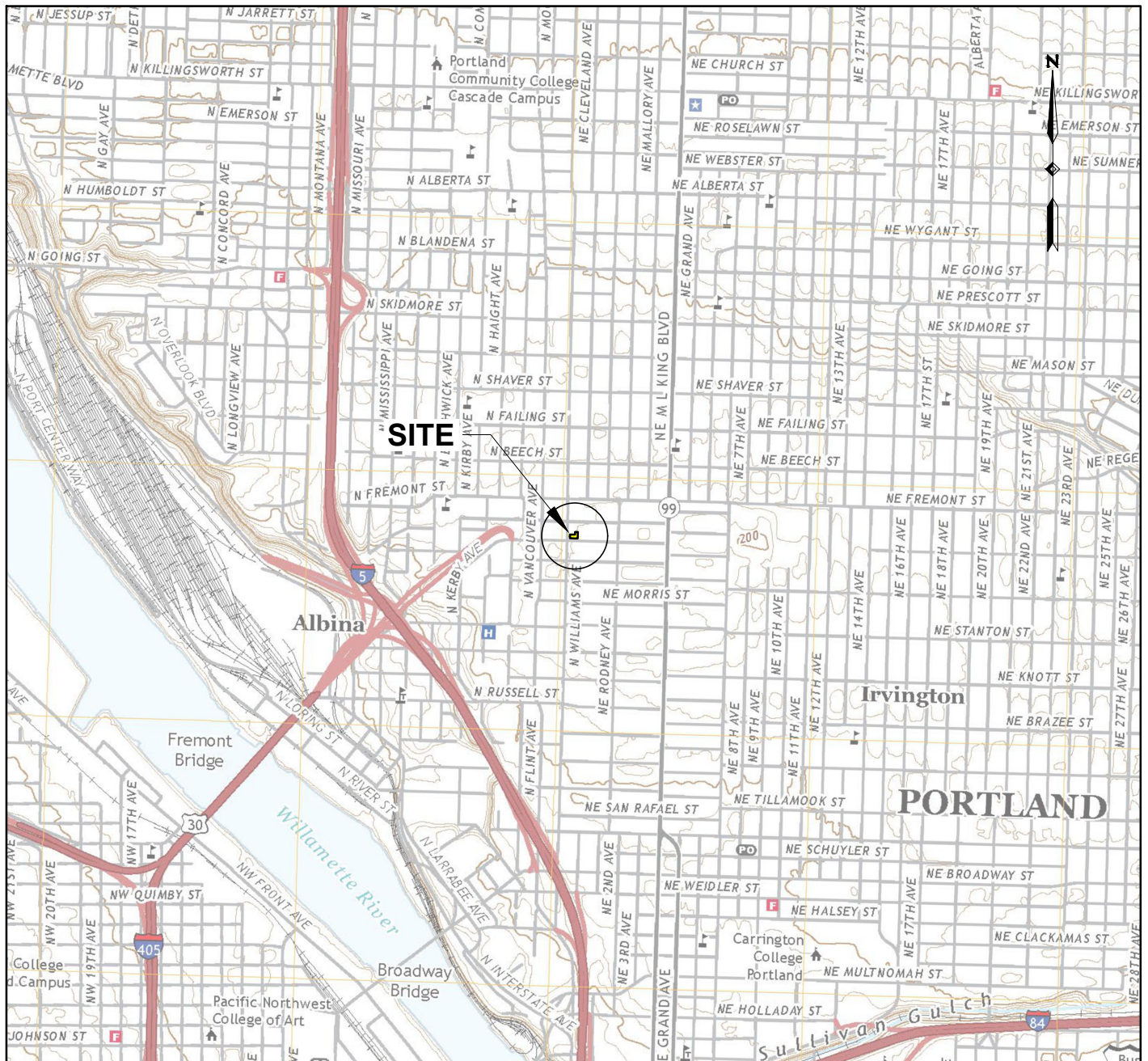
Shaded values exceed occupational soil gas RBC.

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%.

I:\Client\DEQ\Oregon\32-24005460 Ellis Dry Cleaners\Report 39 July 24 Event\32-24005460 01 (Site Location).dwg Modified 8/26/2024 by jPoore



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

0 2,000 4,000
Scale in Feet

Site Location Map

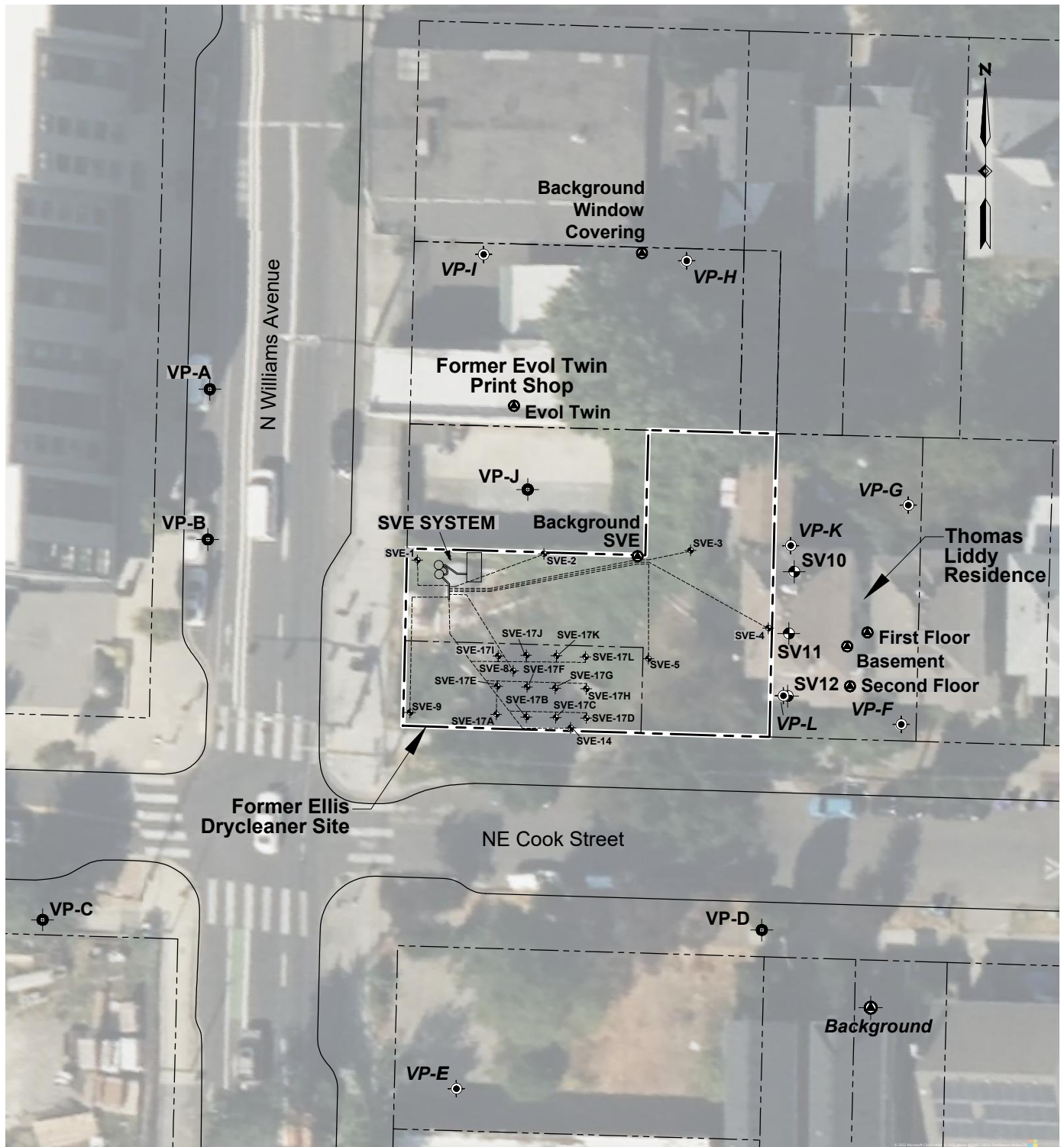
Air Assessment Report - July 2024 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

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

Project Number: 32-24005460	Drawn: JP	Approved: CO
November 2024		

Figure
1

I:\Client\DEQ\Oregon\32-24005460 Ellis Dry Cleaners\Report 39 July 24 Event\32-24005460 02 (Site Plan).dwg Modified 8/26/2024 by JPore



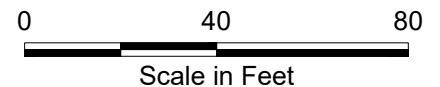
Legend:

- 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



Site Plan

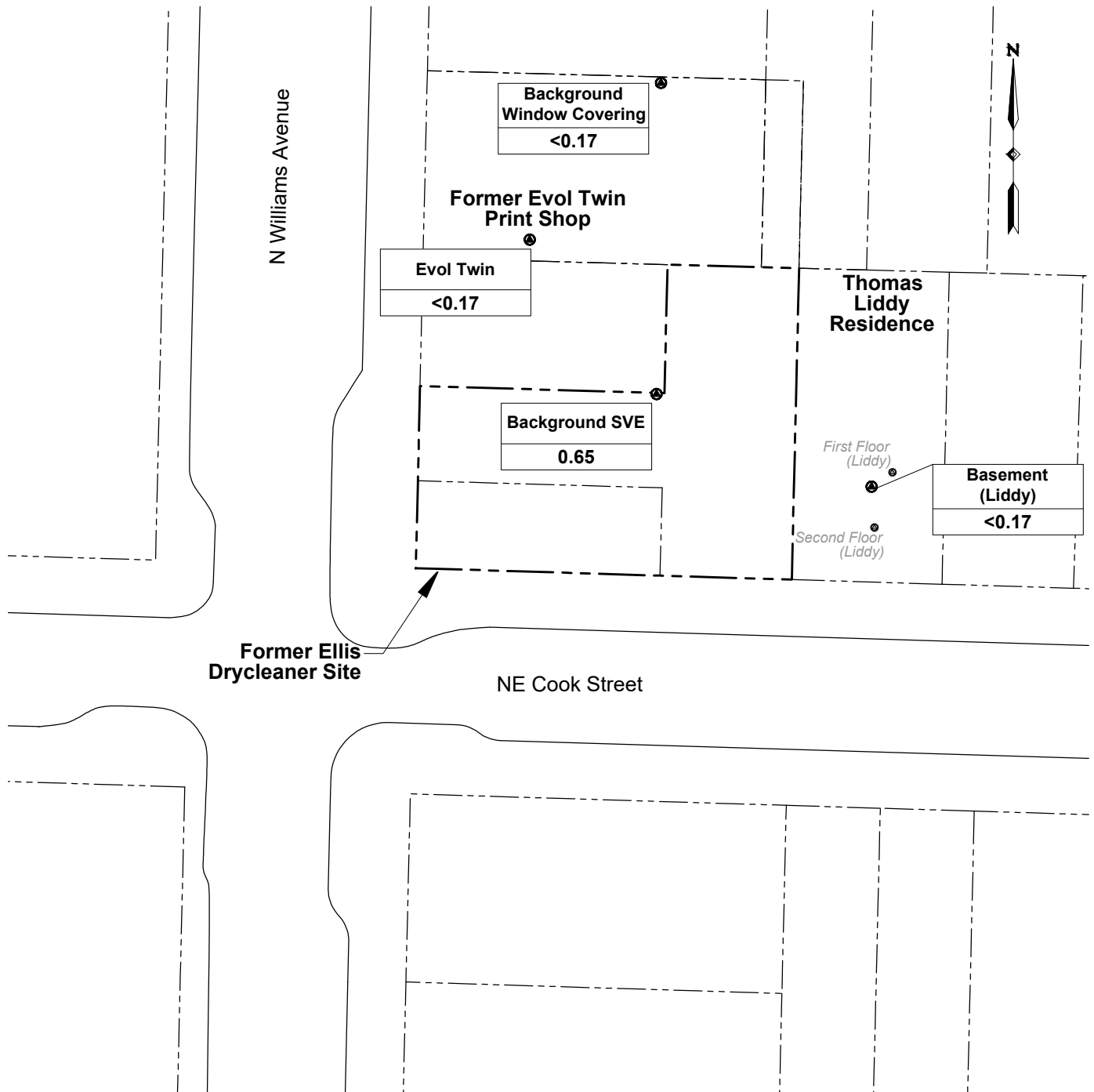
Air Assessment Report - July 2024 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

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

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Tigard, Oregon 97224

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Figure
2



Legend:

- Basement** ① Ambient Air Sample Location
- First Floor (Liddy)** ② Historical Ambient Air Sample Location
- Sample Identification**
- Background Window Covering** **<0.17** Tetrachloroethene (PCE) Concentration in Micrograms per Cubic Meter ($\mu\text{g}/\text{m}^3$)

0 40 80
Scale in Feet

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

PCE Concentrations in Ambient Air

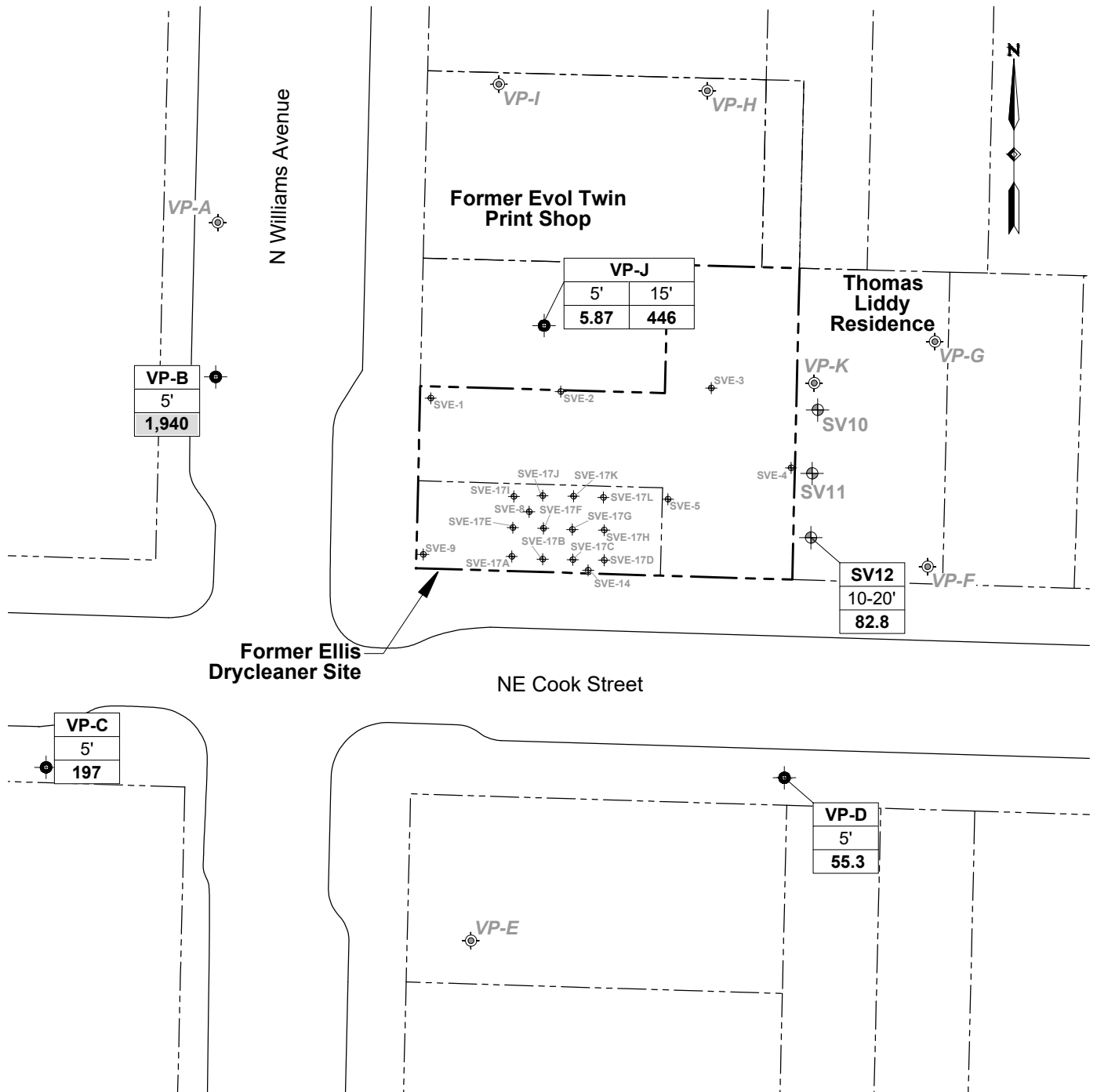
Air Assessment Report - July 2024 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon



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Project Number: 32-24005460	Drawn: JP	Approved: CO
November 2024		

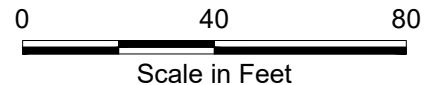
Figure
3



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
- 55.3** Tetrachloroethene (PCE) Concentration in Micrograms per Cubic Meter (µg/m³)
- Highlight** = Results Above Residential Soil Vapor Risk-Based Concentrations

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



PCE Concentrations in Soil Vapor

Air Assessment Report - July 2024 Sampling
DEQ - Former Ellis Dry Cleaners
Portland, Oregon

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

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

November 2024

Figure
4

Appendix A

Analytical Laboratory Reports and Data Quality Review

Appendix A – Laboratory Report and Quality Assurance Review

1.0 Introduction

This appendix documents the results of a quality assurance/quality control (QA/QC) review of the analytical data for the July 2024 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
L1760714	July 31, 2024	Soil Vapor Sampling
2408126	August 15, 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.

Appendix A – Laboratory Report and Quality Assurance Review

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

3.0 Analytical Methods

Chemical analyses of soil vapor samples consisted of the following:

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

Chemical analyses of ambient air samples consisted of the following:

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

4.0 Quality Assurance Objectives and Review

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

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

4.1 Holding Times and Sample Receipt

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

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

4.2 Reporting Limits

Reporting limits are the lowest concentration an instrument is capable of accurately detecting an analyte. They are determined by the laboratory and are based on instrumentation capabilities, the matrix of field samples, sample preparation procedures and suggested reporting limits by the EPA. In some cases, the

Appendix A – Laboratory Report and Quality Assurance Review

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 benzene, 1,3-butadiene, 1,2-dibromoethane, and naphthalene. These analytes are not target contaminants of concern. All other reporting limits were consistent with those historically reported.

4.3 Method Blanks

A method – or laboratory – blank is a quality control sample prepared by the laboratory from an analyte-free matrix and analyzed in an analytical batch along with environmental and other QC samples. It is used to assess laboratory contamination or background interferences.

For soil vapor analysis, the low fraction of total petroleum hydrocarbons (TPH Low Fraction) was detected in the method blank of analytical batch WG2331533. Ethanol was detected in soil vapor sample VP-B at a concentration 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.

Appendix A – Laboratory Report and Quality Assurance Review

4.5.2 Surrogates

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

4.5.3 Instrument Calibration Range

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

4.5.4 Labeled Standards

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

4.6 Precision

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

4.6.1 Laboratory Control Samples

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

Appendix A – Laboratory Report and Quality Assurance Review

4.6.2 Field Duplicate

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

5.0 Conclusion

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

8/15/2024

Ms. Carmen Owens
Apex Companies, LLC
15618 SW 72nd Ave

Tigard OR 97224

Project Name: Former Ellis Dry Cleaners
Project #: 24005460
Workorder #: 2408126

Dear Ms. Carmen Owens

The following report includes the data for the above referenced project for sample(s) received on 8/2/2024 at Eurofins Air Toxics LLC.

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

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

Regards,



Monica Tran
Project Manager

WORK ORDER #: 2408126

Work Order Summary

CLIENT: Ms. Carmen Owens
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

BILL TO: Accounts Payable
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

PHONE: 503-974-0417

P.O. # 320002061-02

FAX:

PROJECT # 24005460 Former Ellis Dry Cleaners

DATE RECEIVED: 08/02/2024

CONTACT: Monica Tran

DATE COMPLETED: 08/15/2024

FRACTION #

NAME

TEST

01A	Window Covering
02A	Evol Twin
03A	Liddy
04A	SVE
05A	Lab Blank
06A	CCV
07A	LCS
07AA	LCSD

Passive S.E. RAD130/SKC
Passive S.E. RAD130/SKC
Passive S.E. RAD130/SKC
Passive S.E. RAD130/SKC
Passive S.E. RAD130/SKC
Passive S.E. RAD130/SKC
Passive S.E. RAD130/SKC
Passive S.E. RAD130/SKC

CERTIFIED BY:



Technical Director

DATE: 08/15/24

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP-02089, MN NELAP-2703122, NH NELAP-209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20

Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

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LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
Apex Companies, LLC
Workorder# 2408126

Four Radiello 130 (Solvent) samples were received on August 02, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

To calculate ug/m³ concentrations in the Lab Blank, a sampling duration of 10090 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: Window Covering

Lab ID#: 2408126-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Carbon Tetrachloride	0.10	0.15	0.18	0.26
Toluene	0.10	0.13	0.30	0.40
m,p-Xylene	0.10	0.14	0.17	0.24

Client Sample ID: Evol Twin

Lab ID#: 2408126-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	88	85
Hexane	0.10	0.15	0.28	0.42
Ethyl Acetate	0.40	0.51	1.2	1.6
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	1.0	1.3
Chloroform	0.10	0.13	0.18	0.24
Cyclohexane	0.10	0.18	0.31	0.57
Carbon Tetrachloride	0.10	0.15	0.15	0.23
Heptane	0.10	0.17	0.44	0.76
Toluene	0.10	0.13	1.5	2.0
Tetrachloroethene	0.10	0.17	1.8	3.0
Ethyl Benzene	0.10	0.14	0.26	0.38
m,p-Xylene	0.10	0.14	0.55	0.78
o-Xylene	0.10	0.15	0.19	0.30
1,2,4-Trimethylbenzene	0.10	0.20	0.21	0.41

Client Sample ID: Liddy

Lab ID#: 2408126-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	1.4	1.3
Hexane	0.10	0.15	0.20	0.30
Ethyl Acetate	0.40	0.51	0.47	0.60
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.35	0.43
Chloroform	0.10	0.13	0.20	0.26
Cyclohexane	0.10	0.18	0.37	0.69

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

Client Sample ID: Liddy

Lab ID#: 2408126-03A

Carbon Tetrachloride	0.10	0.15	0.18	0.26
Heptane	0.10	0.17	1.1	1.9
Toluene	0.10	0.13	3.3	4.4
Ethyl Benzene	0.10	0.14	0.19	0.28
m,p-Xylene	0.10	0.14	0.63	0.89
o-Xylene	0.10	0.15	0.16	0.24

Client Sample ID: SVE

Lab ID#: 2408126-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Carbon Tetrachloride	0.10	0.15	0.17	0.24
Toluene	0.10	0.13	0.32	0.44
m,p-Xylene	0.10	0.14	0.19	0.28

Client Sample ID: Window Covering

Lab ID#: 2408126-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18080718sim	Date of Collection: 7/31/24 11:03:00 AM
Dil. Factor:	1.00	Date of Analysis: 8/7/24 03:28 PM
		Date of Extraction: 8/7/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	Not Detected	Not Detected
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	Not Detected	Not Detected
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.18	0.26
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	0.30	0.40
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.17	0.24
o-Xylene	0.10	0.15	Not Detected	Not Detected
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10077 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130

Client Sample ID: Evol Twin

Lab ID#: 2408126-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name: 18080719sim
Dil. Factor: 1.00

Date of Collection: 7/31/24 10:56:00 AM
Date of Analysis: 8/7/24 03:57 PM
Date of Extraction: 8/7/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	88	85
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.28	0.42
Ethyl Acetate	0.40	0.51	1.2	1.6
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	1.0	1.3
Chloroform	0.10	0.13	0.18	0.24
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	0.31	0.57
Carbon Tetrachloride	0.10	0.15	0.15	0.23
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	0.44	0.76
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	1.5	2.0
Tetrachloroethene	0.10	0.17	1.8	3.0
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	0.26	0.38
m,p-Xylene	0.10	0.14	0.55	0.78
o-Xylene	0.10	0.15	0.19	0.30
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	0.21	0.41
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10089 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130

Client Sample ID: Liddy

Lab ID#: 2408126-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18080720sim	Date of Collection: 7/31/24 11:12:00 AM
Dil. Factor:	1.00	Date of Analysis: 8/7/24 04:25 PM
		Date of Extraction: 8/7/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	1.4	1.3
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.20	0.30
Ethyl Acetate	0.40	0.51	0.47	0.60
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.35	0.43
Chloroform	0.10	0.13	0.20	0.26
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	0.37	0.69
Carbon Tetrachloride	0.10	0.15	0.18	0.26
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	1.1	1.9
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	3.3	4.4
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	0.19	0.28
m,p-Xylene	0.10	0.14	0.63	0.89
o-Xylene	0.10	0.15	0.16	0.24
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10090 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130

Client Sample ID: SVE

Lab ID#: 2408126-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name: 18080721sim
Dil. Factor: 1.00

Date of Collection: 7/31/24 11:00:00 AM
Date of Analysis: 8/7/24 04:53 PM
Date of Extraction: 8/7/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	Not Detected	Not Detected
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	Not Detected	Not Detected
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.17	0.24
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	0.32	0.44
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.19	0.28
o-Xylene	0.10	0.15	Not Detected	Not Detected
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10088 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

Client Sample ID: Lab Blank

Lab ID#: 2408126-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	18080706sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/7/24 09:48 AM
		Date of Extraction: 8/7/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	Not Detected	Not Detected
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	Not Detected	Not Detected
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	Not Detected	Not Detected
o-Xylene	0.10	0.15	Not Detected	Not Detected
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10090 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2408126-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name: 18080703sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 8/7/24 08:23 AM
Date of Extraction: NA

Compound	%Recovery
Ethanol	110
Methyl tert-butyl ether	111
Hexane	97
Ethyl Acetate	98
2-Butanone (Methyl Ethyl Ketone)	104
Chloroform	107
1,1,1-Trichloroethane	105
Cyclohexane	100
Carbon Tetrachloride	104
Benzene	103
1,2-Dichloroethane	110
Heptane	94
Trichloroethene	102
4-Methyl-2-pentanone	92
Toluene	91
Tetrachloroethene	88
Chlorobenzene	91
Ethyl Benzene	89
m,p-Xylene	89
o-Xylene	87
Styrene	88
Propylbenzene	84
1,2,4-Trimethylbenzene	84
1,4-Dichlorobenzene	82
Naphthalene	81

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

Client Sample ID: LCS

Lab ID#: 2408126-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name: 18080704sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 8/7/24 08:51 AM
Date of Extraction: 8/7/24

Compound	%Recovery	Method Limits
Ethanol	59	50-130
Methyl tert-butyl ether	95	70-130
Hexane	86	70-130
Ethyl Acetate	86	70-130
2-Butanone (Methyl Ethyl Ketone)	85	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	86	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	85	70-130
Benzene	82	70-130
1,2-Dichloroethane	87	70-130
Heptane	80	70-130
Trichloroethene	86	70-130
4-Methyl-2-pentanone	81	70-130
Toluene	83	70-130
Tetrachloroethene	84	70-130
Chlorobenzene	78	70-130
Ethyl Benzene	78	70-130
m,p-Xylene	78	70-130
o-Xylene	74	70-130
Styrene	57	20-100
Propylbenzene	78	70-130
1,2,4-Trimethylbenzene	71	70-130
1,4-Dichlorobenzene	65	50-110
Naphthalene	24	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

Client Sample ID: LCSD

Lab ID#: 2408126-07AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name: 18080705sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 8/7/24 09:18 AM
Date of Extraction: 8/7/24

Compound	%Recovery	Method Limits
Ethanol	67	50-130
Methyl tert-butyl ether	103	70-130
Hexane	91	70-130
Ethyl Acetate	93	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	90	70-130
Cyclohexane	89	70-130
Carbon Tetrachloride	88	70-130
Benzene	86	70-130
1,2-Dichloroethane	91	70-130
Heptane	82	70-130
Trichloroethene	86	70-130
4-Methyl-2-pentanone	80	70-130
Toluene	81	70-130
Tetrachloroethene	82	70-130
Chlorobenzene	79	70-130
Ethyl Benzene	80	70-130
m,p-Xylene	79	70-130
o-Xylene	74	70-130
Styrene	56	20-100
Propylbenzene	78	70-130
1,2,4-Trimethylbenzene	73	70-130
1,4-Dichlorobenzene	67	50-110
Naphthalene	26	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

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

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

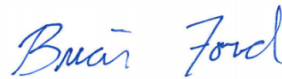
	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1760714
Samples Received: 07/26/2024
Project Number: 24005460
Description: Former Ellis Dry Cleaners

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

Entire Report Reviewed By:



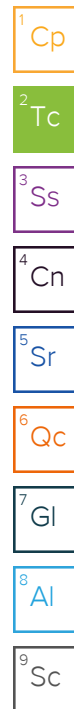
Brian Ford
Project Manager

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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
VP-J (5) L1760714-01	5
VP-J (15) L1760714-02	7
SV-12 L1760714-03	9
VP-B L1760714-04	11
VP-C L1760714-05	13
VP-D L1760714-06	15
DUP L1760714-07	17
Qc: Quality Control Summary	19
Volatile Organic Compounds (MS) by Method TO-15	19
Gl: Glossary of Terms	24
Al: Accreditations & Locations	25
Sc: Sample Chain of Custody	26



SAMPLE SUMMARY

VP-J (5) L1760714-01 Air

				Collected by Chris Weer	Collected date/time 07/23/24 13:22	Received date/time 07/26/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2331533	1	07/28/24 17:05	07/28/24 17:05	DBB	Mt. Juliet, TN

VP-J (15) L1760714-02 Air

				Collected by Chris Weer	Collected date/time 07/23/24 13:17	Received date/time 07/26/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2331533	1	07/28/24 17:33	07/28/24 17:33	DBB	Mt. Juliet, TN

SV-12 L1760714-03 Air

				Collected by Chris Weer	Collected date/time 07/23/24 14:32	Received date/time 07/26/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2331533	1	07/28/24 18:00	07/28/24 18:00	DBB	Mt. Juliet, TN

VP-B L1760714-04 Air

				Collected by Chris Weer	Collected date/time 07/23/24 12:06	Received date/time 07/26/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2331533	1	07/28/24 18:28	07/28/24 18:28	DBB	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2332590	10	07/30/24 22:21	07/30/24 22:21	MNP	Mt. Juliet, TN

VP-C L1760714-05 Air

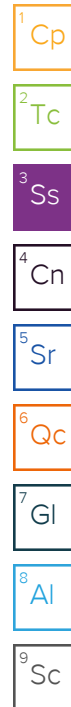
				Collected by Chris Weer	Collected date/time 07/23/24 12:35	Received date/time 07/26/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2331533	1	07/28/24 19:00	07/28/24 19:00	DBB	Mt. Juliet, TN

VP-D L1760714-06 Air

				Collected by Chris Weer	Collected date/time 07/23/24 14:13	Received date/time 07/26/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2331533	1	07/28/24 19:28	07/28/24 19:28	DBB	Mt. Juliet, TN

DUP L1760714-07 Air

				Collected by Chris Weer	Collected date/time 07/23/24 14:44	Received date/time 07/26/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2331533	1	07/28/24 19:56	07/28/24 19:56	DBB	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

- 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
Acetone	67-64-1	58.10	1.25	2.97	7.79	18.5		1	WG2331533
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2331533
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2331533
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2331533
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2331533
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2331533
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2331533
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2331533
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2331533
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2331533
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2331533
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2331533
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2331533
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2331533
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2331533
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2331533
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2331533
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2331533
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2331533
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2331533
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2331533
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2331533
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2331533
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2331533
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2331533
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2331533
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2331533
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2331533
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2331533
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2331533
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2331533
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2331533
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2331533
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2331533
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.485	2.40		1	WG2331533
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2331533
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2331533
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2331533
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2331533
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2331533
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2331533
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2331533
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2331533
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2331533
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2331533
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2331533
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2331533
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2331533
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2331533
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2331533
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2331533
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2331533
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2331533
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.865	5.87		1	WG2331533
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2331533
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2331533



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	WG2331533
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2331533
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2331533
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2331533
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2331533
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2331533
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2331533
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2331533
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2331533
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2331533
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2331533
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2331533
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.4				WG2331533

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	2.39	5.68		1	WG2331533
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2331533
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2331533
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2331533
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2331533
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2331533
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2331533
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2331533
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2331533
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2331533
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2331533
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2331533
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2331533
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2331533
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2331533
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2331533
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2331533
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2331533
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2331533
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2331533
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2331533
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2331533
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2331533
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2331533
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2331533
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2331533
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2331533
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2331533
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2331533
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2331533
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2331533
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2331533
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2331533
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.267	1.50		1	WG2331533
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.69	8.36		1	WG2331533
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2331533
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2331533
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2331533
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2331533
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2331533
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2331533
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2331533
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2331533
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2331533
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2331533
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2331533
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2331533
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2331533
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2331533
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2331533
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2331533
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2331533
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2331533
Tetrachloroethylene	127-18-4	166	0.200	1.36	65.7	446		1	WG2331533
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2331533
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2331533

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	WG2331533
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2331533
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2331533
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2331533
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2331533
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2331533
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2331533
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2331533
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2331533
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2331533
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2331533
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2331533
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.6				WG2331533

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	WG2331533
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2331533
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2331533
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2331533
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2331533
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2331533
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2331533
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2331533
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2331533
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2331533
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2331533
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2331533
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2331533
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2331533
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2331533
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2331533
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2331533
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2331533
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2331533
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2331533
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2331533
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2331533
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2331533
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2331533
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2331533
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2331533
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2331533
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2331533
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2331533
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2331533
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2331533
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2331533
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2331533
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.219	1.23		1	WG2331533
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.433	2.14		1	WG2331533
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2331533
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2331533
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2331533
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2331533
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2331533
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2331533
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2331533
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2331533
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2331533
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2331533
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2331533
MTBE	1634-04-4	88.10	0.200	0.721	0.211	0.760		1	WG2331533
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2331533
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2331533
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2331533
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2331533
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2331533
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2331533
Tetrachloroethylene	127-18-4	166	0.200	1.36	12.2	82.8		1	WG2331533
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2331533
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2331533

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	WG2331533
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2331533
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2331533
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2331533
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2331533
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2331533
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2331533
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2331533
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2331533
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2331533
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2331533
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2331533
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.7				WG2331533

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	3.54	8.41		1	WG2331533
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2331533
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2331533
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2331533
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2331533
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2331533
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2331533
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2331533
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2331533
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2331533
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2331533
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2331533
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2331533
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2331533
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2331533
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2331533
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2331533
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2331533
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2331533
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2331533
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2331533
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2331533
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2331533
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2331533
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2331533
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2331533
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2331533
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2331533
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2331533
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2331533
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2331533
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2331533
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2331533
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.233	1.31		1	WG2331533
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.422	2.09		1	WG2331533
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2331533
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2331533
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2331533
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2331533
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2331533
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2331533
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2331533
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2331533
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2331533
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2331533
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2331533
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2331533
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2331533
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2331533
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2331533
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2331533
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2331533
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2331533
Tetrachloroethylene	127-18-4	166	2.00	13.6	286	1940		10	WG2332590
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2331533
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2331533

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	WG2331533
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2331533
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2331533
Trichloroethylene	79-01-6	131	0.200	1.07	0.283	1.52		1	WG2331533
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2331533
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2331533
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2331533
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2331533
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2331533
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2331533
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2331533
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2331533
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	329	1360	<u>B</u>	1	WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.1				WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.4				WG2332590

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	2.28	5.42		1	WG2331533
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2331533
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2331533
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2331533
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2331533
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2331533
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2331533
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2331533
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2331533
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2331533
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2331533
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2331533
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2331533
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2331533
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2331533
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2331533
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2331533
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2331533
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2331533
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2331533
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2331533
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2331533
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2331533
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2331533
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2331533
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2331533
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2331533
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2331533
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2331533
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2331533
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2331533
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2331533
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2331533
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.229	1.29		1	WG2331533
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.391	1.93		1	WG2331533
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2331533
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2331533
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2331533
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2331533
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2331533
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2331533
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2331533
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2331533
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2331533
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2331533
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2331533
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2331533
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2331533
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2331533
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2331533
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2331533
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2331533
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2331533
Tetrachloroethylene	127-18-4	166	0.200	1.36	29.0	197		1	WG2331533
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2331533
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2331533

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	WG2331533
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2331533
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2331533
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2331533
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2331533
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2331533
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2331533
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2331533
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2331533
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2331533
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2331533
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2331533
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.3				WG2331533

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	2.04	4.85		1	WG2331533
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2331533
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2331533
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2331533
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2331533
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2331533
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2331533
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2331533
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2331533
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2331533
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2331533
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2331533
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2331533
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2331533
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2331533
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2331533
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2331533
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2331533
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2331533
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2331533
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2331533
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2331533
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2331533
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2331533
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	0.242	0.959		1	WG2331533
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2331533
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2331533
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2331533
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2331533
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2331533
Ethanol	64-17-5	46.10	2.50	4.71	3.34	6.30		1	WG2331533
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2331533
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2331533
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.234	1.31		1	WG2331533
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.630	3.12		1	WG2331533
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2331533
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2331533
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2331533
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2331533
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2331533
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2331533
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2331533
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2331533
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2331533
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2331533
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2331533
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2331533
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2331533
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2331533
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2331533
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2331533
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2331533
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2331533
Tetrachloroethylene	127-18-4	166	0.200	1.36	8.15	55.3		1	WG2331533
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2331533
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2331533

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	WG2331533
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2331533
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2331533
Trichloroethylene	79-01-6	131	0.200	1.07	22.1	118		1	WG2331533
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2331533
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2331533
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2331533
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2331533
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2331533
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2331533
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2331533
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2331533
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.5				WG2331533

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	1.93	4.59		1	WG2331533
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2331533
Benzene	71-43-2	78.10	0.200	0.639	0.215	0.687		1	WG2331533
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2331533
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2331533
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2331533
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2331533
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2331533
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2331533
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2331533
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2331533
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2331533
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2331533
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2331533
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2331533
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2331533
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2331533
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2331533
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2331533
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2331533
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2331533
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2331533
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2331533
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2331533
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2331533
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2331533
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2331533
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2331533
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2331533
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2331533
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2331533
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2331533
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2331533
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.233	1.31		1	WG2331533
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.596	2.95		1	WG2331533
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2331533
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2331533
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2331533
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2331533
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2331533
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2331533
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.396	1.38		1	WG2331533
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2331533
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2331533
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2331533
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2331533
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2331533
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2331533
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2331533
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2331533
n-Propylbenzene	103-65-1	120	0.200	0.982	ND	ND		1	WG2331533
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2331533
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2331533
Tetrachloroethylene	127-18-4	166	0.200	1.36	7.72	52.4		1	WG2331533
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2331533
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2331533

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	WG2331533
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2331533
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2331533
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2331533
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2331533
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2331533
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2331533
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2331533
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2331533
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2331533
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2331533
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2331533
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2331533
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.9				WG2331533

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4100149-3 07/28/24 09:57

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	0.400
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	U		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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4100149-3 07/28/24 09:57

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	0.400
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	41.4	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.3			60.0-140

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4100149-1 07/28/24 09:00 • (LCSD) R4100149-2 07/28/24 09:29

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	3.55	3.72	94.7	99.2	70.0-130			4.68	25
Allyl chloride	3.75	3.74	3.70	99.7	98.7	70.0-130			1.08	25
Benzene	3.75	3.68	3.73	98.1	99.5	70.0-130			1.35	25

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

(LCS) R4100149-1 07/28/24 09:00 • (LCSD) R4100149-2 07/28/24 09:29

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzyl Chloride	3.75	3.99	3.85	106	103	70.0-152			3.57	25
Bromodichloromethane	3.75	3.62	3.59	96.5	95.7	70.0-130			0.832	25
Bromoform	3.75	3.56	3.59	94.9	95.7	70.0-130			0.839	25
Bromomethane	3.75	3.83	3.80	102	101	70.0-130			0.786	25
1,3-Butadiene	3.75	4.00	3.94	107	105	70.0-130			1.51	25
Carbon disulfide	7.50	7.58	7.72	101	103	70.0-130			1.83	25
Carbon tetrachloride	3.75	3.59	3.65	95.7	97.3	70.0-130			1.66	25
Chlorobenzene	3.75	3.75	3.76	100	100	70.0-130			0.266	25
Chloroethane	3.75	3.88	3.75	103	100	70.0-130			3.41	25
Chloroform	3.75	3.65	3.73	97.3	99.5	70.0-130			2.17	25
Chloromethane	3.75	3.64	3.48	97.1	92.8	70.0-130			4.49	25
2-Chlorotoluene	3.75	3.81	3.80	102	101	70.0-130			0.263	25
Cyclohexane	3.75	3.83	3.64	102	97.1	70.0-130			5.09	25
Dibromochloromethane	3.75	3.69	3.68	98.4	98.1	70.0-130			0.271	25
1,2-Dibromoethane	3.75	3.84	3.78	102	101	70.0-130			1.57	25
1,2-Dichlorobenzene	3.75	3.78	3.87	101	103	70.0-130			2.35	25
1,3-Dichlorobenzene	3.75	3.91	3.85	104	103	70.0-130			1.55	25
1,4-Dichlorobenzene	3.75	3.82	3.94	102	105	70.0-130			3.09	25
1,2-Dichloroethane	3.75	3.70	3.87	98.7	103	70.0-130			4.49	25
1,1-Dichloroethane	3.75	3.83	3.89	102	104	70.0-130			1.55	25
1,1-Dichloroethene	3.75	3.78	3.83	101	102	70.0-130			1.31	25
cis-1,2-Dichloroethene	3.75	3.70	3.92	98.7	105	70.0-130			5.77	25
trans-1,2-Dichloroethene	3.75	3.69	3.67	98.4	97.9	70.0-130			0.543	25
1,2-Dichloropropane	3.75	3.77	3.65	101	97.3	70.0-130			3.23	25
cis-1,3-Dichloropropene	3.75	3.73	3.89	99.5	104	70.0-130			4.20	25
trans-1,3-Dichloropropene	3.75	3.82	4.01	102	107	70.0-130			4.85	25
1,4-Dioxane	3.75	3.99	3.79	106	101	70.0-140			5.14	25
Ethanol	3.75	3.83	3.61	102	96.3	55.0-148			5.91	25
Ethylbenzene	3.75	3.76	3.75	100	100	70.0-130			0.266	25
4-Ethyltoluene	3.75	3.92	3.98	105	106	70.0-130			1.52	25
Trichlorofluoromethane	3.75	3.69	3.73	98.4	99.5	70.0-130			1.08	25
Dichlorodifluoromethane	3.75	3.75	3.79	100	101	64.0-139			1.06	25
1,1,2-Trichlorotrifluoroethane	3.75	3.81	3.78	102	101	70.0-130			0.791	25
1,2-Dichlorotetrafluoroethane	3.75	3.67	3.82	97.9	102	70.0-130			4.01	25
Heptane	3.75	3.72	3.61	99.2	96.3	70.0-130			3.00	25
Hexachloro-1,3-butadiene	3.75	3.63	3.72	96.8	99.2	70.0-151			2.45	25
n-Hexane	3.75	3.81	3.89	102	104	70.0-130			2.08	25
Isopropylbenzene	3.75	3.68	3.76	98.1	100	70.0-130			2.15	25
Methylene Chloride	3.75	3.57	3.91	95.2	104	70.0-130			9.09	25
Methyl Butyl Ketone	3.75	4.10	4.09	109	109	70.0-149			0.244	25

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

(LCS) R4100149-1 07/28/24 09:00 • (LCSD) R4100149-2 07/28/24 09:29

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
2-Butanone (MEK)	3.75	3.95	4.03	105	107	70.0-130			2.01	25
4-Methyl-2-pentanone (MIBK)	3.75	3.94	3.93	105	105	70.0-139			0.254	25
Methyl methacrylate	3.75	3.95	3.99	105	106	70.0-130			1.01	25
MTBE	3.75	3.75	3.74	100	99.7	70.0-130			0.267	25
Naphthalene	3.75	3.93	3.88	105	103	70.0-159			1.28	25
2-Propanol	3.75	3.68	3.75	98.1	100	70.0-139			1.88	25
Propene	3.75	3.69	3.88	98.4	103	64.0-144			5.02	25
n-Propylbenzene	3.75	3.88	3.93	103	105	70.0-130			1.28	25
Styrene	7.50	7.77	7.99	104	107	70.0-130			2.79	25
1,1,2,2-Tetrachloroethane	3.75	3.90	3.81	104	102	70.0-130			2.33	25
Tetrachloroethylene	3.75	3.79	3.76	101	100	70.0-130			0.795	25
Tetrahydrofuran	3.75	4.00	4.10	107	109	70.0-137			2.47	25
Toluene	3.75	3.73	3.76	99.5	100	70.0-130			0.801	25
1,2,4-Trichlorobenzene	3.75	3.88	3.89	103	104	70.0-160			0.257	25
1,1,1-Trichloroethane	3.75	3.66	3.73	97.6	99.5	70.0-130			1.89	25
1,1,2-Trichloroethane	3.75	3.85	3.83	103	102	70.0-130			0.521	25
Trichloroethylene	3.75	3.79	3.77	101	101	70.0-130			0.529	25
1,2,4-Trimethylbenzene	3.75	3.95	4.02	105	107	70.0-130			1.76	25
1,3,5-Trimethylbenzene	3.75	3.86	3.91	103	104	70.0-130			1.29	25
2,2,4-Trimethylpentane	3.75	3.80	3.86	101	103	70.0-130			1.57	25
Vinyl chloride	3.75	3.78	3.81	101	102	70.0-130			0.791	25
Vinyl Bromide	3.75	3.72	3.83	99.2	102	70.0-130			2.91	25
Vinyl acetate	3.75	3.66	3.69	97.6	98.4	70.0-130			0.816	25
m&p-Xylene	7.50	7.66	7.67	102	102	70.0-130			0.130	25
o-Xylene	3.75	3.90	3.81	104	102	70.0-130			2.33	25
TPH (GC/MS) Low Fraction	188	180	183	95.7	97.3	70.0-130			1.65	25
(S) 1,4-Bromofluorobenzene				99.5	98.9	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4100188-2 07/30/24 10:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Tetrachloroethylene	U		0.0814	0.200
(S) 1,4-Bromofluorobenzene	94.3			60.0-140

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

(LCS) R4100188-1 07/30/24 09:38 • (LCSD) R4100188-3 07/30/24 11:15

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Tetrachloroethylene	3.75	3.64	3.70	97.1	98.7	70.0-130			1.63	25
(S) 1,4-Bromofluorobenzene				95.2	95.8	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

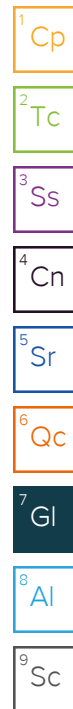
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

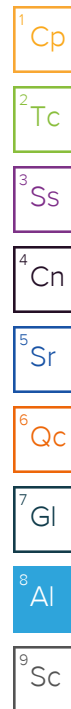
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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	LA000356
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.



THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # [8901]. 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 Basement	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	7/31/2024	7/31/2012	11/4/2013	2/3/2014	4/3/2014	5/12/2014	7/16/2014
Benzene	1.6 E	1.1	1.1	1.5 M	0.82 M	0.58	0.70	<0.50	0.32	< 0.64	0.51	0.45	0.45	0.38
Carbon Tetrachloride	--	--	--	--	--	--	--	0.26	0.47	< 1.3	0.33	0.48	0.49	0.47
Chloroethane	--	--	--	--	--	--	--	--	< 0.11	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11
Chloroform	--	--	--	--	--	--	--	0.26	0.27	< 0.97	0.27	0.25	0.33	0.15
Chloromethane	--	--	--	--	--	--	--	--	1.10	0.81	0.95	1.1	0.95	1.1
Cyclohexane	<0.036	0.40	0.44	0.33 J+	0.32 J+	0.36	0.46	0.69	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--	--	< 0.15	< 1.5	< 0.15	< 0.15	< 0.15	< 0.15
1,4-Dichlorobenzene	--	--	--	--	--	--	--	<0.19	< 0.12	< 1.2	< 0.12	< 0.12	< 0.12	< 0.12
1,2-Dichloroethane	--	--	--	--	--	--	--	<0.13	--	<0.81	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	< 0.08	< 0.80	< 0.080	< 0.080	< 0.080	< 0.080
1,1-Dichloroethene	--	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079
cis-1,2-Dichloroethene	--	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079
trans-1,2-Dichloroethene	--	--	--	--	--	--	--	--	< 0.079	< 0.79	< 0.079	< 0.079	5.9	< 0.079
1,2-Dichloropropane	--	--	--	--	--	--	--	--	< 0.14	< 0.92	< 0.14	< 0.14	< 0.14	< 0.14
cis-1,3-Dichloropropene	--	--	--	--	--	--	--	--	< 0.091	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091
trans-1,3-Dichloropropene	--	--	--	--	--	--	--	--	< 0.14	< 0.91	< 0.14	< 0.14	< 0.14	< 0.14
Ethylbenzene	1.9 E	0.66	0.63	0.54	0.46	0.68	0.73	0.28	0.48	< 0.87	0.33	0.30	0.52	0.39
Toluene	5.4 J	3.1 J	3.0 J	3.1	3.0	6.1	6.6	4.4	--	--	--	--	--	--
Styrene	1.2 E,M	0.32	0.31	0.47 M	0.24 M	0.31	0.33	<0.16	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	< 0.14	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethylene	0.16	0.99	0.96	0.57	0.55	0.16	0.16	<0.17	1.8	15	12	13	1.7	< 0.14
1,1,1-Trichloroethane	<0.049	<0.050	<0.050	<0.049	<0.049	<0.050	<0.050	<0.16	< 0.11	< 1.1	< 0.11	< 0.11	0.21	< 0.11
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	< 0.16	< 1.1	< 0.16	< 0.16	< 0.16	< 0.16
Trichloroethylene	<0.018	0.032	0.033	<0.018	<0.018	<0.018	<0.018	<0.14	< 0.11	< 1.1	< 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	0.89	--	--	--	--	--	--
o-Xylene	1.9 E	0.73	0.71	0.52	0.49	0.70	0.74	0.24	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	--	--	< 0.051	< 0.51	< 0.051	< 0.051	< 0.051	< 0.051
Vinyl Acetate	--	--	--	--	--	--	--	--	< 0.07	< 1.7	< 0.07	< 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 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
Date	9/15/2014	11/10/2014	3/16/2015	6/16/2015	9/14/2015	9/14/2015	12/14/2015	3/7/2016	6/6/2016	9/14/2016	12/13/2016	3/30/2017	6/26/2017	9/27/2017
Benzene	0.38	0.96	0.89	1.2	0.326	0.373	0.627	1.59	0.40	0.846	0.618	0.596	0.352	0.597
Carbon Tetrachloride	0.37	0.51	0.57	0.54	0.384	0.412	0.366	< 1.26	0.55	0.474	0.454	0.530	0.414	0.573
Chloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 0.106	< 0.106	< 0.106	< 0.528	< 0.528	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106
Chloroform	0.12	1.0	0.54	< 0.097	0.203	0.234	0.302	< 0.973	0.382	< 0.0973	0.280	0.370	0.439	0.376
Chloromethane	0.70	0.91	1.3	1.4	0.813	0.880	1.06	1.63	1.34	1.20	1.11	1.49	1.05	1.39
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154	< 0.154	< 1.54	< 1.54	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154
1,4-Dichlorobenzene	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120	< 0.120	< 1.20	< 1.20	< 0.120	< 0.120	2.45	< 0.120	< 0.12
1,2-Dichloroethane	--	--	--	--	--	--	--	< 0.81	--	--	--	--	--	< 0.0810
1,1-Dichloroethane	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802	< 0.0802	< 0.802	< 0.802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802
1,1-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.793	< 0.793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
cis-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	0.138	< 0.793	< 0.793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	0.104
trans-1,2-Dichloroethene	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.793	< 0.793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
1,2-Dichloropropane	< 0.14	< 0.14	< 0.14	< 0.14	< 0.139	< 0.139	< 0.139	< 0.924	< 0.924	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139
cis-1,3-Dichloropropene	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908	< 0.0908	< 0.0908	< 0.908	< 0.908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908
trans-1,3-Dichloropropene	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136	< 0.136	< 0.908	< 0.908	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136
Ethylbenzene	0.40	1.3	0.48	4.8	0.261	0.272	0.422	1.19	0.621	1.57	0.280	0.517	1.77	0.331
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137	< 0.137	< 1.37	< 1.37	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137
Tetrachloroethylene	0.30	1.4	0.16	0.75	0.186	0.202	0.272	< 1.36	0.217 M	0.402	< 0.136	0.206	< 0.136	0.381
1,1,1-Trichloroethane	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109	< 0.109	< 1.09	< 1.09	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109
1,1,2-Trichloroethane	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163	< 0.163	< 1.09	< 1.09	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163
Trichloroethylene	< 0.11	< 0.11	0.11	< 0.11	< 0.107	< 0.107	< 0.107	6.37	< 0.107	0.124	< 0.107	< 0.107	< 0.107	0.132
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.511	< 0.511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511
Vinyl Acetate	< 0.070	< 0.070	< 0.070	< 0.070	< 0.0704	< 0.0704	< 0.0704	< 0.704	0.256	0.440	< 0.0704	< 0.0704	< 0.0704	< 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	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	2/2/2022
Benzene	0.682	1.26	0.370	0.244	0.611	0.49	0.49	0.372	1.540	0.767	--	--	0.77 J+	1.2 J+
Carbon Tetrachloride	0.472	0.492	0.484	0.453	0.600	0.54	0.47	0.488	0.4	0.528	--	--	--	--
Chloroethane	<0.106	<0.106	<0.106	<0.106	<0.106	<0.48	<0.47	<0.106	<0.106	<0.106	--	--	--	--
Chloroform	0.972	0.567	0.581	0.197	0.373	0.47J	0.61	<0.0973	<0.0973	0.662	--	--	--	--
Chloromethane	1.39	1.08	1.12	0.819	1.07	1.0	1.1	1.21	1.41	1.03	--	--	--	--
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	0.13	0.30
1,2-Dibromoethane	<0.154	<0.154	<0.154	<0.154	<0.154	<0.13	<0.13	<0.154	<0.154	<0.154	--	--	--	--
1,4-Dichlorobenzene	<0.12	<0.12	<0.120	<0.120	<0.120	<1.8	<1.8	<0.120	<0.120	<0.120	--	--	--	--
1,2-Dichloroethane	<0.0810	0.0971	<0.0810	<0.0810	<0.0810	0.10 J	0.095	<0.0810	<0.0810	<0.0810	--	--	--	--
1,1-Dichloroethane	<0.0802	0.122	<0.0802	<0.0802	<0.0802	<0.044	<0.043	<0.0802	<0.0802	<0.0802	<0.0086	<0.0087	--	--
1,1-Dichloroethene	<0.0793	0.122	<0.0793	<0.0793	<0.0793	<0.064	<0.063	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--	--
cis-1,2-Dichloroethene	<0.0793	0.296	<0.0793	<0.0793	<0.0793	<0.049	<0.048	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--	--
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.068	<0.066	<0.0793	<0.0793	<0.0793	<0.0086	<0.0087	--	--
1,2-Dichloropropane	<0.139	<0.139	<0.139	<0.139	<0.139	<0.053	<0.052	<0.139	<0.139	<0.139	--	--	--	--
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	<0.0908	0.373	0.068 J	<0.064	<0.0908	<0.0908	<0.0908	--	--	--	--
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	<0.136	0.209	<0.075	<0.073	<0.136	<0.136	<0.136	--	--	--	--
Ethylbenzene	0.573	0.865	0.666	0.216	0.348	1.1 J	<0.55	0.2	1.25	0.442	--	--	0.27	0.56
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	0.95	2.6 E
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	0.21	0.35
1,1,2,2-Tetrachloroethane	<0.137	<0.137	<0.137	<0.137	<0.137	<0.10	<0.10	<0.137	<0.137	<0.137	--	--	--	--
Tetrachloroethylene	0.256	0.531	<0.136	<0.136	1.44	0.59	<0.11	<0.136	0.475	<0.136	1.0	0.79	0.042	0.190
1,1,1-Trichloroethane	<0.109	3.21	<0.109	<0.109	<0.109	<0.066	<0.064	<0.109	<0.109	<0.109	0.0090	0.0087	<0.057	<0.049
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	<0.163	<0.163	<0.068	<0.066	<0.163	<0.163	<0.163	--	--	--	--
Trichloroethylene	<0.107	5.20	<0.107	<0.107	<0.107	<0.090	<0.088	<0.107	<0.107	<0.107	0.025	0.021	<0.021	<0.018
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	0.76	1.7
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	0.30	0.57
Vinyl Chloride	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.042	<0.48	<0.0511	<0.0511	<0.0511	--	--	--	--
Vinyl Acetate	<0.0704	0.0751	<0.0704	<0.0704	<0.0704	<0.49	<0.041	<0.0704	0.0916	0.0968	--	--	--	--

See notes at end of table.

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

Sample Location	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy First Floor	Liddy 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	7/18/2022	8/18/2022	1/25/2023	4/3/2023	8/29/2023	4/3/2014	5/12/2014	7/16/2014	9/15/2014	11/10/2014	3/16/2015	6/16/2015	9/14/2015	12/14/2015
Benzene	0.68	0.85	1.2	0.77	0.71	0.77	0.57	0.35	1.2	0.96	0.67	0.26	0.386	0.571
Carbon Tetrachloride	--	--	--	--	--	< 1.3	0.48	0.47	0.50	0.48	0.57	0.57	0.416	0.36
Chloroethane	--	--	--	--	--	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.106	< 0.106
Chloroform	--	--	--	--	--	< 0.97	1.0	0.31	0.73	2.4	0.54	< 0.097	< 0.0973	0.317
Chloromethane	--	--	--	--	--	1.2	0.93	1.1	1.0	1.2	1.4	1.3	1.13	0.873
Cyclohexane	0.086	<0.036	0.35	0.20 J+	0.15	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	< 1.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154
1,4-Dichlorobenzene	--	--	--	--	--	< 1.2	< 0.12	0.21	< 0.12	< 0.12	< 0.12	< 0.12	< 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
1,1-Dichloroethene	--	--	--	--	--	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 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
trans-1,2-Dichloroethene	--	--	--	--	--	< 0.79	0.25	< 0.079	< 0.079	< 0.079	0.095	< 0.079	< 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
cis-1,3-Dichloropropene	--	--	--	--	--	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 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
Ethylbenzene	0.30	0.58	0.73	0.46	0.31	< 0.87	1.1	0.36	3.0	2.2	0.56	0.25	< 0.130	0.37
Toluene	1.6	2.6 E	2.9 J	2.3	1.6	--	--	--	--	--	--	--	--	--
Styrene	0.30	0.44	0.41	0.24	0.22	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137
Tetrachloroethylene	0.044	0.10	1.2	0.71	0.10	12	2.0	2.2	12	1.4	< 0.14	< 0.14	< 0.136	0.213
1,1,1-Trichloroethane	<0.050	<0.049	<0.050	<0.049	<0.050	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.109	< 0.109
1,1,2-Trichloroethane	--	--	--	--	--	< 1.1	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.163	< 0.163
Trichloroethylene	<0.018	<0.018	0.035	<0.018	<0.018	< 1.1	< 0.11	< 0.11	0.17	< 0.11	< 0.11	< 0.11	< 0.107	< 0.107
m,p-Xylene	0.82	1.6 E	2.1 E	1.4	0.9	--	--	--	--	--	--	--	--	--
o-Xylene	0.30	0.60	0.79	0.48	0.34	--	--	--	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	< 0.51	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511
Vinyl Acetate	--	--	--	--	--	< 0.70	< 0.070	< 0.070	0.15	< 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	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	3/7/2016	6/6/2016	9/14/2016	12/13/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019
Benzene	0.684	0.514	0.482	0.563	0.548	0.369	0.599	0.676	1.26	0.392	0.224	0.613	0.51	0.56
Carbon Tetrachloride	0.266	0.542	0.514	0.482	0.515	0.448	0.565	0.522	0.468	0.484	0.458	0.600	0.54	2.1
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	0.197	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
Chloromethane	0.851	1.74	1.11	1.09	1.45	0.983	1.43	1.39	1.12	1.14	0.859	0.973	0.98	1.3
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	< 0.13	< 0.12
1,4-Dichlorobenzene	< 0.120	< 0.120	< 0.120	< 0.120	4.61	< 0.120	< 0.12	< 0.12	< 0.12	< 0.120	< 0.120	< 0.120	< 1.8	< 1.8
1,2-Dichloroethane	--	--	--	--	--	--	< 0.0810	0.0842	< 0.081	< 0.0810	< 0.0810	< 0.0810	0.099 J	0.11
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 J
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	< 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	0.062 J
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	0.362	0.069 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	0.199	< 0.075	< 0.072
Ethylbenzene	1.20	0.35	0.483	0.477	0.891	0.263	0.844	0.761	1.24	0.782	0.445	0.658	1.3 J	1.1 J
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.10	< 0.098
Tetrachloroethylene	1.18	< 0.136	0.455	< 0.136	0.462	< 0.136	0.208	0.337	0.430	< 0.136	0.313	1.50	0.66	0.13
1,1,1-Trichloroethane	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	0.662	< 0.109	< 0.109	< 0.109	< 0.066	0.063 J
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	0.189	< 0.107	< 0.107	< 0.107	< 0.107	0.137	< 0.107	< 0.107	1.08	< 0.107	< 0.107	< 0.107	< 0.090	< 0.086
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	0.0817	0.0951	< 0.0704	0.171	< 0.0704	0.0769	< 0.0704	0.197	< 0.0704	< 0.0704	< 0.0704	< 0.49	< 0.040

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	Background Ivy & Williams	Background Ivy & Williams
Date	8/19/2019	11/4/2019	2/24/2020	11/3/2020	1/25/2021	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/3/2023	8/29/2023	7/30/2012	7/31/2012
Benzene	0.508	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
Carbon Tetrachloride	0.489	0.400	0.523	--	--	--	--	--	--	--	--	--	0.44	0.26
Chloroethane	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--	--	< 0.11	< 0.11
Chloroform	<0.0973	2.60	0.642	--	--	--	--	--	--	--	--	--	0.15	< 0.097
Chloromethane	1.30	1.23	1.09	--	--	--	--	--	--	--	--	--	1.4	1.2
Cyclohexane	--	--	--	--	--	0.13	0.28	0.068	0.036	0.38	0.24 J+	0.13	--	--
1,2-Dibromoethane	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--	--	< 0.15	< 0.15
1,4-Dichlorobenzene	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--	--	< 0.12	< 0.12
1,2-Dichloroethane	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	<0.0802	<0.0802	<0.0802	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.08	< 0.08
1,1-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.079	< 0.079
cis-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.079	< 0.079
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0086	<0.0099	--	--	--	--	--	--	--	< 0.079	< 0.079
1,2-Dichloropropane	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--	--	< 0.14	0.27
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--	< 0.091	< 0.091
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--	--	< 0.14	< 0.14
Ethylbenzene	0.808	0.780	0.538	--	--	0.44	0.82	0.38	1.6 E	0.94	0.74	0.56	0.65	0.35
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	<0.137	--	--	--	--	--	--	--	--	--	< 0.14	< 0.14
Tetrachloroethylene	<0.136	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
1,1,1-Trichloroethane	<0.109	<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
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--	--	< 0.16	< 0.16
Trichloroethylene	<0.107	<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
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	<0.0511	--	--	--	--	--	--	--	--	--	< 0.051	< 0.051
Vinyl Acetate	<0.0704	<0.0704	0.0887	--	--	--	--	--	--	--	--	--	< 0.07	< 0.07

See notes at end of table.

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

Sample Location	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background Ivy & Williams	Background 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	8/12/2013	8/24/2013	11/6/2013	2/3/2014	11/19/2018	3/31/2014	5/12/2014	7/16/2014	9/15/2014	11/12/2014	12/9/2014	3/16/2015	6/16/2015	9/14/2015
Benzene	0.77	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
Carbon Tetrachloride	0.45	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
Chloroethane	< 0.11	< 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
Chloroform	< 0.097	< 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
Chloromethane	0.91	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
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.15	< 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
1,4-Dichlorobenzene	< 0.12	< 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
1,2-Dichloroethane	--	--	< 0.81	--	0.0848	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	< 0.080	< 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
1,1-Dichloroethene	< 0.079	< 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
cis-1,2-Dichloroethene	< 0.079	< 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
trans-1,2-Dichloroethene	< 0.079	< 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
1,2-Dichloropropane	< 0.14	< 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
cis-1,3-Dichloropropene	< 0.091	< 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
trans-1,3-Dichloropropene	< 0.14	< 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
Ethylbenzene	0.42	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
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.14	< 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
Tetrachloroethylene	< 0.14	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
1,1,1-Trichloroethane	< 0.11	< 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
1,1,2-Trichloroethane	< 0.16	< 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
Trichloroethylene	< 0.11	< 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
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.051	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
Vinyl Acetate	< 0.070	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

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	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
Benzene	0.658	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
Carbon Tetrachloride	0.473	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
Chloroethane	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.48
Chloroform	0.105	< 0.0973	< 0.0973	< 0.0973	< 0.0973	< 0.0973	< 0.0973	< 0.0973	< 0.0973	0.119	0.150	< 0.0973	1.15	< 0.0973
Chloromethane	1.02	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
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 0.154	< 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
1,4-Dichlorobenzene	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.12	< 0.120	< 0.0810	< 0.12	< 0.12	< 0.120	< 0.120	< 1.8
1,2-Dichloroethane	--	--	--	--	--	--	--	< 0.0810	< 0.0810	0.0846	< 0.0810	< 0.0810	0.0848	0.098 J
1,1-Dichloroethane	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.044
1,1-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.064
cis-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	0.049 J
trans-1,2-Dichloroethene	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.068
1,2-Dichloropropane	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.053
cis-1,3-Dichloropropene	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	0.346	0.068 J
trans-1,3-Dichloropropene	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	0.178	< 0.075
Ethylbenzene	0.376	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
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.10
Tetrachloroethylene	0.194	< 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
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	< 0.066
1,1,2-Trichloroethane	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.163	< 0.068
Trichloroethylene	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	0.121	< 0.107	0.501	< 0.107	0.181	< 0.107	< 0.090
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.042
Vinyl Acetate	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 0.0704	0.104	< 0.0704	< 0.0704	< 0.0704	< 0.49

See notes at end of table.

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

Sample Location	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	5/13/2019	8/19/2019	11/4/2019	2/25/2020	11/3/2020	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/10/2023	8/29/2023	12/27/2023	7/31/2024
Benzene	0.39	0.229	0.831	0.795	--	0.84 J+	1.0 J+	0.71	0.96 E	1.1	0.86	1.00	0.50	<0.50
Carbon Tetrachloride	0.42	0.488	0.470	0.576	--	--	--	--	--	--	--	--	--	0.26
Chloroethane	<0.46	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--	--	--
Chloroform	0.13	<0.0973	<0.0973	<0.0973	--	--	--	--	--	--	--	--	--	<0.13
Chloromethane	0.98	1.06	0.86	1.02	--	--	--	--	--	--	--	--	--	--
Cyclohexane	--	--	--	--	--	0.12	0.22	0.066	0.11	0.35	0.16 J+	0.09	0.095	<0.18
1,2-Dibromoethane	<0.12	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<1.8	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--	--	<0.19
1,2-Dichloroethane	0.089	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--	--	<0.13
1,1-Dichloroethane	<0.042	<0.0802	<0.0802	<0.0802	<0.0087	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	<0.061	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.047	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	<0.065	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	<0.051	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	<0.063	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	<0.072	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.53	<0.130	0.339	0.447	--	0.22	0.21	0.20	0.45	0.40	0.22	0.27	0.11	<0.14
Toluene	--	--	--	--	--	0.79	1.1	0.75	1.9 E	1.8 E	0.86	1.00	0.53	0.40
Styrene	--	--	--	--	--	0.22	0.14	0.19	0.33	0.19	0.16 J+	0.27 J+	0.058	<0.16
1,1,2,2-Tetrachloroethane	<0.098	<0.137	<0.137	<0.137	--	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	3.1	<0.136	<0.136	0.156	0.084	0.033	0.140	0.036	0.089	0.13	0.079	0.062	0.041	<0.17
1,1,1-Trichloroethane	<0.063	<0.109	<0.109	<0.109	<0.0087	<0.058	<0.049	<0.048	<0.049	<0.050	<0.049	<0.050	<0.029	<0.16
1,1,2-Trichloroethane	<0.065	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--	--	--
Trichloroethylene	0.15	<0.107	0.113	<0.107	0.024	<0.021	<0.018	<0.018	<0.018	0.032	<0.018	<0.018	<0.011	<0.14
m,p-Xylene	--	--	--	--	--	0.57	0.60	0.52	1.2 E	1.2	0.6	0.7	0.33	0.24
o-Xylene	--	--	--	--	--	0.24	0.24	0.21	0.47	0.48	0.25	0.28	0.15	<0.15
Vinyl Chloride	<0.47	<0.0511	<0.0511	<0.0511	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	<0.040	<0.0704	<0.0704	<0.0704	--	--	--	--	--	--	--	--	--	--

See notes at end of table.

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

Sample Location	Background 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	11/4/2013	4/3/2014	5/12/2014	7/16/2014	9/15/2014	11/12/2014	3/16/2015	6/16/2015	9/17/2015	12/14/2015	3/7/2016	6/9/2016	9/12/2016	12/12/2016
Benzene	0.83	< 0.64	0.22	0.28	1.2	0.61	0.96	0.51	0.386	0.726	0.722	3.31	0.433	0.563
Carbon Tetrachloride	< 1.3	< 1.3	0.48	0.46	0.44	0.48	0.57	0.47	0.371	0.424	0.358	0.431	0.519	0.460
Chloroethane	< 0.53	< 0.53	< 0.11	< 0.11	< 0.11	< 0.11	0.14	< 0.11	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106	< 0.106
Chloroform	< 0.97	< 0.97	< 0.097	0.13	< 0.097	< 0.097	< 0.097	< 0.097	< 0.0973	0.0992	< 0.0973	< 0.0973	< 0.0973	< 0.0973
Chloromethane	0.87	0.99	0.93	1.0	0.85	1.3	1.6	1.1	0.792	0.905	0.979	1.29	1.08	0.985
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	< 1.5	< 1.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154	< 0.154
1,4-Dichlorobenzene	< 1.2	< 1.2	< 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	<0.81	<0.81	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	< 0.80	< 0.80	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802	< 0.0802
1,1-Dichloroethene	< 0.79	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
cis-1,2-Dichloroethene	< 0.79	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
trans-1,2-Dichloroethene	< 0.79	< 0.79	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793	< 0.0793
1,2-Dichloropropane	< 0.92	< 0.92	< 0.14	< 0.14	< 0.14	< 0.14	0.88	< 0.14	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139	< 0.139
cis-1,3-Dichloropropene	< 0.91	< 0.91	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908	< 0.0908
trans-1,3-Dichloropropene	< 0.91	< 0.91	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136
Ethylbenzene	< 0.87	< 0.87	0.33	0.33	0.56	0.16	0.36	0.74	0.201	0.334	0.714	2.27	0.213	0.202
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	< 1.4	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137	< 0.137
Tetrachloroethylene	< 1.4	< 1.4	0.81	0.14	0.29	< 0.14	< 0.14	0.18	0.197	0.479	0.346	0.19 M	0.272	< 0.136
1,1,1-Trichloroethane	< 1.1	< 1.1	< 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	< 1.1	< 1.1	< 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	< 1.1	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	0.11	< 0.11	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	< 0.51	< 0.51	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511	< 0.0511
Vinyl Acetate	< 0.70	< 0.70	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.13	< 0.0704	< 0.0704	< 0.0704	< 0.0704	< 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	3/30/2017	6/26/2017	10/2/2017	11/20/2017	2/8/2018	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/3/2020
Benzene	0.919	0.348	1.01	0.869	1.56	0.376	0.230	0.647	0.35	0.38	0.315	0.961	0.671	--
Carbon Tetrachloride	0.538	0.436	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	<0.106	<0.106	<0.40	<0.37	<0.106	<0.106	<0.106	--
Chloroform	<0.0973	<0.0973	<0.0973	0.126	0.159	<0.0973	<0.0973	<0.0973	<0.045	0.11	<0.0973	<0.0973	<0.0973	--
Chloromethane	1.43	0.965	1.10	1.34	1.03	1.07	0.812	0.833	0.84	0.84	1.06	0.911	1.16	--
Cyclohexane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	<0.154	<0.154	<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	<0.481	<0.120	<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	<0.0802	<0.0802	<0.037	<0.035	<0.0802	<0.0802	<0.0802	<0.0087
1,1-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.054	<0.050	<0.0793	<0.0793	<0.0793	<0.0087
cis-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.042	<0.039	<0.0793	<0.0793	<0.0793	<0.0087
trans-1,2-Dichloroethene	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.0793	<0.057	<0.053	<0.0793	<0.0793	<0.0793	<0.0087
1,2-Dichloropropane	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	<0.139	0.046 J	<0.042	<0.139	<0.139	<0.139	--
cis-1,3-Dichloropropene	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	<0.0908	0.329	0.060 J	<0.052	<0.0908	<0.0908	<0.0908	--
trans-1,3-Dichloropropene	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	<0.136	0.174	<0.064	<0.059	<0.136	<0.136	<0.136	--
Ethylbenzene	0.711	0.561	0.552	0.484	0.860	0.497	0.201	0.218	0.86 J	<0.44	0.141	0.380	0.304	--
Toluene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	<0.55	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.087	<0.081	<0.137	<0.137	<0.137	--
Tetrachloroethylene	0.677	0.474	0.140	<0.136	0.319	0.748	0.523	<0.136	0.10	3.0	<0.136	<0.136	<0.136	0.11
1,1,1-Trichloroethane	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.056	<0.052	<0.109	<0.109	<0.109	<0.0087
1,1,2-Trichloroethane	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.163	<0.057	0.054 J	<0.163	<0.163	<0.163	--
Trichloroethylene	<0.107	<0.107	0.401	<0.107	0.363	<0.107	<0.107	<0.107	<0.076	0.083	<0.107	0.134	<0.107	0.024
m,p-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	0.0717	<0.0511	<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	<0.0704	<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	Background SVE	Background SVE	Background SVE
Date	1/25/2021	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	4/10/2023	8/29/2023	7/31/2024
Benzene	--	0.91 J+	0.90 J+	0.45	0.63	1.0	0.7	1.3	<0.50
Carbon Tetrachloride	--	--	--	--	--	--	--	--	0.24
Chloroethane	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--	<0.13
Chloromethane	--	--	--	--	--	--	--	--	--
Cyclohexane	--	0.11	0.25	0.074	<0.036	0.30	0.18 J+	0.10 J+	<0.18
1,2-Dibromoethane	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	--	--	--	<0.19
1,2-Dichloroethane	--	--	--	--	--	--	--	--	<0.13
1,1-Dichloroethane	<0.0099	--	--	--	--	--	--	--	--
1,1-Dichloroethene	<0.0099	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	<0.0099	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	<0.0099	--	--	--	--	--	--	--	--
1,2-Dichloropropane	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--
Ethylbenzene	--	0.24	0.24	0.16	0.65	0.33	0.20	0.30	<0.14
Toluene	--	0.83	1.1	0.69	3.0 E	1.5	0.78	1.00	0.44
Styrene	--	0.22	0.11	0.15	1.3 E	0.17	0.13	0.40	<0.16
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	0.18	0.038	0.18	0.059	1.1	0.14	0.089	0.240	<0.17
1,1,1-Trichloroethane	<0.0099	<0.058	<0.049	<0.048	<0.050	<0.050	<0.049	<0.050	<0.16
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--
Trichloroethylene	0.019	<0.021	<0.018	<0.018	<0.018	0.032	<0.018	<0.018	<0.14
m,p-Xylene	--	0.60	0.28	0.47	1.4 E	0.96	0.56	0.67	0.28
o-Xylene	--	0.25	0.11	0.19	0.60	0.42	0.24	0.29	<0.15
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 $\mu\text{g}/\text{m}^3$ = 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	Evol Twin Shop
Date	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/25/2020	11/3/2020	8/31/2021	2/2/2022	7/18/2022	8/18/2022	1/25/2023	8/30/2023	12/27/2023	7/31/2024
Benzene	0.70	0.43	0.248	1.09	1.01	--	0.56 J+	0.84 J+	0.40	1.2 E	0.91	0.82	0.42	<0.50
Carbon Tetrachloride	0.59	0.55	0.491	0.481	0.568	--	--	--	--	--	--	--	--	0.23
Chloroethane	<0.42	<0.46	<0.106	<0.106	<0.106	--	--	--	--	--	--	--	--	--
Chloroform	0.90 J	0.70	<0.0973	<0.0973	<0.0973	--	--	--	--	--	--	--	--	0.24
Chloromethane	1.0	1.2	1.19	1.03	1.00	--	--	--	--	--	--	--	--	--
Cyclohexane	--	--	--	--	--	--	0.18	0.26	0.099	0.13	0.40	0.22	0.11	0.57
1,2-Dibromoethane	<0.11	<0.12	<0.154	<0.154	<0.154	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	<1.6	<1.8	<0.120	<0.120	<0.120	--	--	--	--	--	--	--	--	<0.19
1,2-Dichloroethane	0.12 J	0.13	<0.0810	<0.0810	<0.0810	--	--	--	--	--	--	--	--	<0.13
1,1-Dichloroethane	<0.039	<0.042	<0.0802	<0.0802	<0.0802	<0.0087	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.084 J	<0.061	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.044 J	<0.047	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	<0.060	<0.065	<0.0793	<0.0793	<0.0793	<0.0087	--	--	--	--	--	--	--	--
1,2-Dichloropropane	0.048 J	0.054 J	<0.139	<0.139	<0.139	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	0.065 J	<0.063	<0.0908	<0.0908	<0.0908	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	<0.066	<0.072	<0.136	<0.136	<0.136	--	--	--	--	--	--	--	--	--
Ethylbenzene	1.1 J	<0.53	0.246	0.681	4.42	--	0.46	0.50	0.98	0.53	0.59	1.30	0.28	0.38
Toluene	--	--	--	--	--	--	2.1 E	2.2 E	2.8 E	2.1 E	2.7 J	6.3 J-	1.3	2.0
Styrene	--	--	--	--	--	--	0.36	0.35	1.7	0.51	0.83	2.70	0.80	<0.16
1,1,2,2-Tetrachloroethane	<0.090	<0.098	<0.137	<0.137	<0.137	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	1.1	1.5	<0.136	1.17	0.675	7.7	0.26	4.3 E	1.8	0.13	5.6	2.5	1.7	3.0
1,1,1-Trichloroethane	<0.058	<0.063	<0.109	<0.109	<0.109	<0.0087	<0.058	<0.049	<0.048	<0.050	<0.050	<0.051	<0.029	<0.16
1,1,2-Trichloroethane	<0.060	<0.065	<0.163	<0.163	<0.163	--	--	--	--	--	--	--	--	--
Trichloroethylene	<0.079	<0.086	<0.107	<0.107	<0.107	0.028	<0.021	<0.018	<0.018	<0.018	0.029	0.058	0.012	<0.14
m,p-Xylene	--	--	--	--	--	--	1.1	1.5	2.8 E	1.3 E	1.7	2.6	0.88	0.78
o-Xylene	--	--	--	--	--	--	0.54	0.61	1.3	0.53	0.72	0.77	0.29	0.30
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 $\mu\text{g}/\text{m}^3$ = 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
TPH _g	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	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70
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	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
1,3-Dichlorobenzene	< 1.2	< 1.20	2.92	6.87	< 1.20	5.49	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
1,4-Dichlorobenzene	< 1.2	< 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	< 0.81	< 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	< 0.80	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	< 0.802	73.4	< 0.802	< 0.802	< 0.802	< 0.802
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	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
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	9.92	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30
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
TPH _g	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	<0.934	<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	3.39	3.86	2.30	3.89	1.45
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
TPH _g	<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
TPH _g	<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	< 1.70	< 1.70
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	< 1.20	< 1.20
1,3-Dichlorobenzene	< 1.20	< 1.20	2.9	< 1.20	< 1.20	2.78	< 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	0.222	< 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
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	< 0.802
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	< 1.40	< 1.40
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	< 3.30	< 3.30
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
TPH _g	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
TPH _g	<207	873	763	898	411	435 J+	<207	<826	<826	<826	<826	<826

See notes at end of table.

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

Sample Location	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	SV-12	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	10-20	5	5	5	5	5
Date	7/18/2022	8/18/2022	1/18/2023	4/3/2023	8/22/2023	12/20/2023	7/23/2024	5/12/2014	7/16/2014	9/15/2014	3/16/2015	12/14/2015
Acetone	8.39	<2.97	<2.97	3.59	<1.39	<2.97	<2.97	31	< 12	11	4.3	45.9
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626	<0.626	<2.5	<2.5	<0.63	<0.63	<0.626
Benzene	<0.639	<0.639	0.754	<0.639	<0.228	<0.639	<0.639	<2.6	<2.6	<0.64	0.89	1.38
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04	<1.04	<4.2	<4.2	<1.0	<1.0	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34	<1.34	<5.4	<5.4	<1.3	<1.3	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21	<6.21	<25	<25	<6.2	<6.2	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.381	<0.776	<0.776	<3.1	<3.1	<0.78	<0.78	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<0.230	<4.43	<4.43	<18	<18	<4.4	<4.4	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.317	<0.622	<1.24	<2.5	<2.5	0.65	<0.62	<0.622
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26	<1.26	<5.0	<5.0	<1.3	<1.3	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924	<0.924	<3.7	<3.7	<0.92	<0.92	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528	<0.528	<2.1	<2.1	<0.53	<0.53	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973	<0.973	<3.9	<3.9	<0.97	<0.97	3.64
Chloromethane	<0.413	0.516	<0.413	<0.413	<0.213	<0.413	<0.413	<1.7	<1.7	<0.41	<0.41	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03	<1.03	<4.1	<4.1	<1.0	<1.0	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689	<0.689	<2.8	<2.8	<0.69	1.3	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<0.618	<1.70	<1.70	<6.8	<6.8	<1.7	2.14	<1.70
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54	<1.54	<6.2	<6.2	<1.5	<1.5	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.770	<1.20	<1.20	<4.8	<4.8	<1.2	<1.2	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.09	<1.20	<1.20	<4.8	<4.8	<1.2	<1.2	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<0.335	<1.20	<1.20	<4.8	<4.8	<1.2	<1.2	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.283	<0.810	<0.810	<3.2	<3.2	<0.81	<0.81	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.290	<0.802	<0.802	<3.2	<3.2	<0.80	<0.80	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.302	<0.793	<0.793	<3.2	<3.2	<0.79	<0.79	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.311	<0.793	<0.793	<3.2	<3.2	<0.79	<0.79	<0.793
trans-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.267	<0.793	<0.793	4.0	<3.2	<0.79	<0.79	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.351	<0.924	<0.924	<3.7	<3.7	<0.92	<0.92	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.313	<0.908	<0.908	<3.6	<3.6	<0.91	<0.91	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.331	<0.908	<0.908	<3.6	<3.6	<0.91	<0.91	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.300	<2.27	<2.27	<2.9	<2.9	<0.72	<0.72	<0.721
Ethanol	13.6	<2.36	2.75	5.19 J+	6.13 J+	<4.71	<4.71	14	<4.8	11	16 M	7.78
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867	<0.867	<3.5	<3.5	1.3	1.5	1.34
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982	<0.982	<3.9	<3.9	1.1	1.4	<0.982
Trichlorofluoromethane	1.80	1.42	1.49	1.43	1.25	1.15	1.23	4.8	<4.5	4.7	3.8	1.97
Dichlorodifluoromethane	2.75	2.39	2.69	2.32	2.08	1.72	2.14	5.4	5.9	5.4	3.6	2.98
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<0.608	<1.53	<1.53	<6.1	<6.1	<1.5	<1.5	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<0.622	<1.40	<1.40	<5.6	<5.6	<1.4	<1.4	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.425	<0.818	<0.818	<3.3	<3.3	<0.82	1.4	1.47
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<1.12	<6.73	<6.73	<27	<27	<6.7	<6.7	<6.73
n-Hexane	<2.22	<2.22	<2.22	<2.22	<0.726	<2.22	<2.22	<2.8	<2.8	<0.71	1.9	1.59
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983	<0.983	<3.9	<3.9	<0.98	<0.98	<0.983
Methylene Chloride	0.715	<0.694	<0.694	<0.694	<0.340	0.733	<0.694	5.6	<2.8	<0.69	<0.69	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<0.544	<5.11	<5.11	<20	<20	<5.1	<5.1	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<0.240	<3.69	<3.69	<15	<15	<3.7	4.7	22.2
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<0.313	<5.12	<5.12	<20	<20	<5.1	<5.1	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819	<0.819	<3.3	<3.3	<0.82	<0.82	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	1.56	<0.721	0.760	<2.9	<2.9	<0.72	<0.72	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<1.83	<3.30	<3.30	<13	<13	6.3	<3.3	<3.30
2-Propanol	38.3	<3.07	<3.07	<3.07	<0.649	<3.07	<3.07	<12	<12	4.4	<3.1	8.95
Propene	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15	<2.15	<2.8	<2.8	<0.69	<0.69	<0.689
n-Propylbenzene	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982	<0.982	--	--	--	--	--
Styrene	<0.851	1.18	<0.851	<0.851	<0.335	<0.851	<1.70	<3.4	<3.4	<0.85	<0.85	<0.851
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<0.511	<1.37	<1.37	<5.5	<5.5	<1.4	<1.4	<1.37
Tetrachloroethylene	3.02	29.8	208	13.9	33.5	25.3	82.8	7,500	8,100	8,100	2,400	47.2
Tetrahydrofuran	<0.590	<0.590	<0.590	<0.590	3.33	<0.590	<0.590	<2.4	<2.4	<0.59	1.7	<0.590
Toluene	2.74	<1.88	<1.88	<1.88	<0.328	<1.88	<1.88	3.5	6.8	3.6	7.2	6.99
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<1.10	<4.66	<4.66	<19	<19	<4.7	<4.7	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.400	<1.09	<1.09	<4.4	<4.4	1.3	<1.1	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<0.422	<1.09	<1.09	<4.4	<4.4	<1.1	<1.1	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<0.364	<1.07	<1.07	<4.3	<4.3	1.9	<1.1	5.59
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982	<0.982	<3.9	12	3.9	4.9	2.35
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.382	<0.982	<0.982	<3.9	4.1	1.2	1.5	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.621	<0.934	<0.934	<3.7	<3.7	<0.93	<0.93	1.05
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511	<0.511	<2.0	<2.0	<0.51	<0.51	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875	<0.875	<3.5	<3.5	<0.87	<0.87	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704 UJ	<0.408 J	<2.22 J	<2.22	<2.8	<2.8	<0.70	<0.70	<0.704
m&p-Xylene	2.04	<1.73	<1.73	<1.73	<0.585	<1.73	<1.73	<6.9	<6.9	6	13	5.81
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867	<0.867	<3.5	<3.5	2.2	4.8	1.99
TPHg	<826	<826	<826	<826	<164	<826	<826	4,100	6,600	3,000	1,000	<207

See notes at end of table.

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

Sample Location	VP-A	VP-A DUP	VP-A	VP-A DUP	VP-A	VP-A DUP	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	3/7/2016	3/7/2016	6/9/2016	6/9/2016	9/12/2016	9/12/2016	12/12/2016	3/30/2017	6/26/2017	9/29/2017	11/20/2017	2/8/2018
Acetone	4.72	3.18	45.6 M	< 2.97	< 2.97	3.83	4.85	< 2.97	28.6	< 2.97	4.76	58.3
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	0.694	< 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	< 1.36	< 1.34	< 1.36	< 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	1.39 M	< 0.622	< 0.622	< 0.622	0.731	< 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	< 0.689	2.00	1.85	3.30	< 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	4.49	14.1	< 1.20	< 1.20	< 1.20	< 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	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721
Ethanol	14.5	5.20	9.98 M	2.48 M	4.62	16.5	< 1.19	4.61	52.2	2.48	4.40	5.16
Ethylbenzene	1.98	1.21	< 0.867	< 0.867	< 0.867	1.09	< 0.867	< 0.867	2.45	< 0.867	< 0.867	2.43
4-Ethyltoluene	4.54	< 0.982	< 0.982	< 0.982	1.38	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982
Trichlorofluoromethane	2.39	1.81	2.02 M	1.63 M	1.43	1.27	1.25	1.61	1.90	1.37	1.30	1.65
Dichlorodifluoromethane	2.79	2.40	1.72 M	2.23 M	2.12	1.59	2.32	1.91	2.08	1.41	2.06	1.55
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	0.934	< 0.818	< 0.818	< 0.818	< 0.818	1.08	< 0.818	< 0.818	1.49	< 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	0.927	< 0.705	< 0.705	4.11 M	< 0.705	1.87	< 0.705	< 0.705	3.65	< 0.705	< 0.705	1.83
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	1.00 B	< 0.694	< 0.694	2.55	< 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)	4.12	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	8.19	< 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	11.9	< 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	16.3	33.7	< 3.07	24.2 M	34.3	27.3	< 3.07	< 3.07	12.1	< 3.07	< 3.07	47.3
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	2.62	1.61	< 0.851	< 0.851	< 0.851	1.38	< 0.851	< 0.851	3.00	< 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	1140	949	5,730 M	367 M	6,070	5,390	1,630	1,270	2,640	2,570	1,500	849
Tetrahydrofuran	2.75	< 0.590	< 0.590	< 0.590	1.91	1.68	< 0.590	< 0.590	18.7	< 0.590	< 0.590	3.96
Toluene	5.44	2.13	< 0.753	0.875 M	1.98	5.48	< 0.753	1.25	18.6	1.78	1.94	1.92
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	1.40 M	< 1.07	1.28	1.07	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07
1,2,4-Trimethylbenzene	5.67	4.63	< 0.982	< 0.982	1.65	2.25	< 0.982	< 0.982	2.07	< 0.982	< 0.982	< 0.982
1,3,5-Trimethylbenzene	1.54	1.15	< 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	41.4	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	1.11	< 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	9.57	5.86	< 1.73	< 1.73	2.80	3.65	< 1.73	< 1.73	5.94	2.53	< 1.73	9.44
o-Xylene	3.8	2.41	< 0.867	< 0.867	1.07	1.52	< 0.867	< 0.867	2.46	< 0.867	< 0.867	2.96
TPH _g	834	845	2,390 M	449 M	2,050	1,770	941	1,100	1,630	1,510	897	1,480

See notes at end of table.

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

Sample Location	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A	VP-A
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5	5
Date	5/21/2018	8/3/2018	11/19/2018	3/18/2019	5/13/2019	8/19/2019	11/4/2019	2/24/2020	11/4/2020	8/31/2021	1/26/2022	7/18/2022	8/18/2022
Acetone	<2.97	<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	<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	<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	<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	<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	<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	<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	<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	<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	<1.26	<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	<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	<0.528	<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	<0.973	<0.71	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973
Chloromethane	<0.413	<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	<1.03
Cyclohexane	<0.689	<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	<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	<1.54	<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	<1.20	<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	<1.20	<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	<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	<0.810	<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	<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	<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	<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	<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	<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	<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	<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	<0.721	<5.3	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721
Ethanol	<1.19	1.79	6.53	1.76	6.4	25.7	1.76	6.22	20.2	2.92 J+	<2.36	2.49	<2.36
Ethylbenzene	<0.867	<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	<0.982	<3.6	<0.982	<0.982	5.69	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	1.48	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	1.54	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	<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	<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	<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	<6.73	<7.8	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73
n-Hexane	<0.705	<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	<0.983	<3.6	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983
Methylene Chloride	<0.694	<0.694	5.89	<0.694	5.9	1.08 J+	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<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	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	5.9 J+	<3.69	<3.69	9.02	<3.69	<3.69	<3.69	<3.69	<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	<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	<0.819
MTBE	<0.721	<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	<3.30	4.1	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30
2-Propanol	<3.07	<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	<0.689	<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	<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	<1.37	<1	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37
Tetrachloroethylene	1,680	2,150	773	300	702	1,640	475	147	788	1,850	461	1,700	1,120
Tetrahydrofuran	<0.590	<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	<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	<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	<1.09	<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	<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	<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	<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	<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	<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	<0.511	<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	<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	<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	<1.73	17.3	<1.73	<1.73	10.6	<1.73	<1.73	<1.73	<1.73	<1.73
o-Xylene	<0.867	<0.867	<0.867	<0.867	<1.3	<0.867	<0.867	4.47	<0.867	<0.867	<0.867	<0.867	<0.867
TPH _g	1,040	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	<0.91	<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	< 1.70	< 1.70	< 1.70	< 1.70	< 1.70	< 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	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.8
1,3-Dichlorobenzene	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.8
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	< 4.6
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	< 0.61
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	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 2.1
Heptane	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818	< 1.2
Hexachloro-1,3-butadiene	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 6.73	< 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	< 3.30	< 3.30	< 3.30	< 3.30	< 3.30	< 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	< 0.590	< 0.590	< 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
TPH _g	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	<1.70	<1.70	<0.618	<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	<0.554	<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	<0.770	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	1.64	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.09	<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	<0.335	<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	<0.283	<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	<0.290	<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	<1.40	<1.40	<0.622	<1.40
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	<3.30	<3.30	24.1	<3.30
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
TPH _g	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-B	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
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5
Date	7/23/2024	5/12/2014	7/16/2014	7/16/2014	9/15/2014	9/15/2014	11/11/2014	3/16/2015	6/16/2015	6/16/2015	9/14/2015	9/14/2015
Acetone	8.41	< 12	< 24	< 24	14 M	20 M	26	6.2	10	7.1	3.67	4.92
Allyl Chloride	<0.626	< 2.5	< 5.0	< 5.0	< 0.63	< 0.63	< 2.5	< 0.63	< 0.63	< 0.63	< 0.626	< 0.626
Benzene	<0.639	< 2.6	< 5.1	< 5.1	1.4 M	1.9 M	< 2.6	< 0.64	< 0.64	< 0.64	< 0.639	< 0.639
Benzyl Chloride	<1.04	< 4.2	< 8.3	< 8.3	< 1.0	< 1.0	< 4.2	< 1.0	< 1.0	< 1.0	< 1.04	< 1.04
Bromodichloromethane	<1.34	< 5.4	< 11	< 11	< 1.3	< 1.3	< 5.4	< 1.3	< 1.3	< 1.3	< 1.34	< 1.34
Bromoform	<6.21	< 25	< 50	< 50	< 6.2	< 6.2	< 25	< 6.2	< 6.2	< 6.2	< 6.21	< 6.21
Bromomethane	<0.776	< 3.1	< 6.2	< 6.2	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 0.776	< 0.776
1,3-Butadiene	<4.43	< 18	< 35	< 35	< 4.4	< 4.4	< 18	< 4.4	< 4.4	< 4.4	< 4.43	< 4.43
Carbon Disulfide	<1.24	< 2.5	< 5.0	< 5.0	5.0 M	3.4 M	< 2.5	< 0.62	0.93	0.81	1.24	< 0.622
Carbon Tetrachloride	<1.26	< 5.0	< 10	< 10	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	< 1.3	< 1.26	< 1.26
Chlorobenzene	<0.924	< 3.7	< 7.4	< 7.4	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92	< 0.92	< 0.924	< 0.924
Chloroethane	<0.528	< 2.1	< 4.2	< 4.2	< 0.53	< 0.53	< 2.1	< 0.53	< 0.53	< 0.53	< 0.528	< 0.528
Chloroform	<0.973	< 3.9	< 7.8	< 7.8	< 0.97	< 0.97	< 3.9	< 0.97	< 0.97	< 0.97	< 0.973	21.2
Chloromethane	<0.413	< 1.7	< 3.3	< 3.3	1.1 M	< 0.41 M	< 1.7	< 0.41	0.87	< 0.41	< 0.413	< 0.413
2-Chlorotoluene	<1.03	< 4.1	< 8.2	< 8.2	< 1.0	< 1.0	< 4.1	< 1.0	< 1.0	< 1.0	< 1.03	< 1.03
Cyclohexane	<0.689	< 2.8	< 5.5	< 5.5	< 0.69	< 0.69	< 2.8	0.76	< 0.69	< 0.69	< 0.689	< 0.689
Dibromochloromethane	2.09	< 6.8	< 14	< 14	< 1.7	< 1.7	< 6.8	< 1.7	< 1.7	< 1.7	< 1.70	< 1.70
1,2-Dibromoethane	<1.54	< 6.2	< 12	< 12	< 1.5	< 1.5	< 6.2	< 1.5	< 1.5	< 1.5	< 1.54	< 1.54
1,2-Dichlorobenzene	<1.20	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20
1,3-Dichlorobenzene	<1.20	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20
1,4-Dichlorobenzene	<1.20	< 4.8	< 9.6	< 9.6	< 1.2	< 1.2	< 4.8	< 1.2	< 1.2	< 1.2	< 1.20	< 1.20
1,2-Dichloroethane	<0.810	< 3.2	< 6.5	< 6.5	< 0.81	< 0.81	< 3.2	< 0.81	< 0.81	< 0.81	< 0.810	< 0.810
1,1-Dichloroethane	<0.802	< 3.2	< 6.4	< 6.4	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80	< 0.802	< 0.802
1,1-Dichloroethene	<0.793	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793
cis-1,2-Dichloroethene	<0.793	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793
trans-1,2-Dichloroethene	<0.793	< 3.2	< 6.3	< 6.3	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 0.793	< 0.793
1,2-Dichloropropane	<0.924	< 3.7	< 7.4	< 7.4	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92	< 0.92	< 0.924	< 0.924
cis-1,3-Dichloropropene	<0.908	< 3.6	< 7.3	< 7.3	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.908	< 0.908
trans-1,3-Dichloropropene	<0.908	< 3.6	< 7.3	< 7.3	< 0.91	< 0.91	< 3.6	< 0.91	< 0.91	< 0.91	< 0.908	< 0.908
1,4-Dioxane	<2.27	< 2.9	< 5.8	< 5.8	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.721	< 0.721
Ethanol	<4.71	8.5	< 9.5	< 9.5	< 1.2 M	7.2 M	8.1	11 M	8.9	4.7	< 1.19	2.54
Ethylbenzene	<0.867	< 3.5	< 6.9	< 6.9	0.95	0.95	< 3.5	1.0	< 0.87	< 0.87	< 0.867	< 0.867
4-Ethyltoluene	<0.982	< 3.9	9.8	< 7.9	1.3	< 0.98	< 3.9	< 0.98	< 0.98	< 0.98	< 0.982	< 0.982
Trichlorofluoromethane	1.31	< 4.5	< 9.0	< 9.0	1.2	< 1.1	< 4.5	1.7	1.6	1.6	1.49	1.51
Dichlorodifluoromethane	2.09	4.3	< 7.9	< 7.9	1.2	< 0.99	4.7	2.7	2.3	2.3	1.83	2.37
1,1,2-Trichlorotrifluoroethane	<1.53	< 6.1	< 12	< 12	< 1.5	< 1.5	< 6.1	< 1.5	< 1.5	< 1.5	< 1.53	< 1.53
1,2-Dichlorotetrafluoroethane	<1.40	< 5.6	< 11	< 11	< 1.4	< 1.4	< 5.6	< 1.4	< 1.4	< 1.4	< 1.40	< 1.40
Heptane	<0.818	< 3.3	< 6.5	< 6.5	0.98	< 0.82	< 3.3	0.90	< 0.82	< 0.82	< 0.818	< 0.818
Hexachloro-1,3-butadiene	<6.73	< 27	< 54	< 54	< 6.7	< 6.7	< 27	< 6.7	< 6.7	< 6.7	< 6.73	< 6.73
n-Hexane	<2.22	< 2.8	< 5.6	< 5.6	1.9	1.7	< 2.8	1.2	< 0.71	< 0.71	< 0.705	< 0.705
Isopropylbenzene	<0.983	< 3.9	< 7.9	< 7.9	< 0.98	< 0.98	< 3.9	< 0.98	< 0.98	< 0.98	< 0.983	< 0.983
Methylene Chloride	<0.694	4.5	< 5.6	< 5.6	1.1 M	< 0.69 M	< 2.8	< 0.69	9.0	< 0.69	< 0.694	< 0.694
Methyl Butyl Ketone	<5.11	< 20	< 41	< 41	< 5.1	< 5.1	< 20	< 5.1	< 5.1	< 5.1	< 5.11	< 5.11
2-Butanone (MEK)	<3.69	< 15	< 29	< 29	3.8	< 3.7	< 15	< 3.7	< 3.7	< 3.7	< 3.69	< 3.69
4-Methyl-2-pentanone (MIBK)	<5.12	< 20	< 41	< 41	< 5.1	< 5.1	< 20	< 5.1	< 5.1	< 5.1	< 5.12	< 5.12
Methyl methacrylate	<0.819	< 3.3	< 6.6	< 6.6	< 0.82	< 0.82	< 3.3	< 0.82	< 0.82	< 0.82	< 0.819	< 0.819
MTBE	<0.721	< 2.9	< 5.8	< 5.8	7.6 M	< 0.72 M	< 2.9	< 0.72	< 0.72	< 0.72	< 0.721	< 0.721
Naphthalene	<3.30	< 13	< 26	< 26	< 3.3	< 3.3	< 13	< 3.3	< 3.3	< 3.3	< 3.30	< 3.30
2-Propanol	<3.07	< 12	< 25	< 25	< 3.1	< 3.1	14	3.9 M	4.7	< 3.1	< 3.07	< 3.07
Propene	<2.15	< 2.8	< 5.5	< 5.5	2.6	2.6	< 2.8	< 0.69	< 0.69	< 0.69	< 0.689	< 0.689
n-Propylbenzene	<0.982	--	--	--	--	--	--	--	--	--	--	--
Styrene	<1.70	< 3.4	< 6.8	< 6.8	< 0.85	< 0.85	< 3.4	< 0.85	< 0.85	< 0.85	< 0.851	< 0.851
1,1,2,2-Tetrachloroethane	<1.37	< 5.5	< 11	< 11	< 1.4	< 1.4	< 5.5	< 1.4	< 1.4	< 1.4	< 1.37	< 1.37
Tetrachloroethylene	1,940	17,000	12,000	11,000	7.5 M	3.8 M	25,000	3,700	5,900	5,400	22,800	17,900
Tetrahydrofuran	<0.590	< 2.4	< 4.7	< 4.7	2.1 M	< 0.59 M	< 2.4	1.3	< 0.59	0.59	< 0.590	< 0.590
Toluene	<1.88	< 3.0	20 M	< 6.0 M	5.3	5.7	< 3.0	4.5	1.3	1.0	< 0.753	< 0.753
1,2,4-Trichlorobenzene	<4.66	< 19	< 37	< 37	< 4.7	< 4.7	< 19	< 4.7	< 4.7	< 4.7	< 4.66	< 4.66
1,1,1-Trichloroethane	<1.09	< 4.4	< 8.7	< 8.7	< 1.1	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.09	< 1.09
1,1,2-Trichloroethane	<1.09	< 4.4	< 8.7	< 8.7	< 1.1	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.09	< 1.09
Trichloroethylene	1.52	< 4.3	< 8.6	< 8.6	< 1.1	< 1.1	< 4.3	< 1.1	< 1.1	< 1.1	< 1.07	< 1.07
1,2,4-Trimethylbenzene	<0.982	< 3.9	28 M	< 7.9 M	4.8 M	2.9 M	< 3.9	3.8	1.1	1.3	< 0.982	< 0.982
1,3,5-Trimethylbenzene	<0.982	< 3.9	11 M	< 7.9 M	2.1 M	< 0.98 M	< 3.9	1.1	< 0.98	< 0.98	< 0.982	< 0.982
2,2,4-Trimethylpentane	<0.934	< 3.7	< 7.5	< 7.5	< 0.93	1.1	< 0.93	< 0.93	< 0.93	< 0.93	< 0.934	< 0.934
Vinyl Chloride	<0.511	< 2.0	< 4.1	< 4.1	< 0.51	< 0.51	< 2.0	< 0.51	< 0.51	< 0.51	< 0.511	< 0.511
Vinyl Bromide	<0.875	< 3.5	< 7.0	< 7.0	< 0.87	< 0.87	< 3.5	< 0.87	< 0.87	< 0.87	< 0.875	< 0.875
Vinyl Acetate	<2.22	< 2.8	< 5.6	< 5.6	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.704	< 0.704
m&p-Xylene	<1.73	< 6.9	< 14	< 14	3.6	3.4	< 6.9	8.2	2.4	2.2	< 1.73	< 1.73
o-Xylene	<0.867	< 3.5	< 6.9	< 6.9	1.5	1.2	< 3.5	3.1	< 0.87	< 0.87	< 0.867	< 0.867
TPH _g	1,360 J+	5,000	9,100	10,000	210	210	5,400	1,100	4,500	5,400	6,060	6,230

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	VP-D DUP	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	12/14/2015	3/7/2016	6/9/2016	9/12/2016	12/12/2016	3/30/2017	3/30/2017	6/26/2017	6/26/2017	9/29/2017	9/29/2017	11/20/2017
Acetone	< 2.97	8.5	< 2.97	< 2.97	< 2.97	< 2.97	17.1	9.21	9.65	< 2.97	8.04	< 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	1.12	< 0.973	98.4	15.3	1.49	< 0.973	< 0.973	27.3	29.2	14.0	4.03	4.03
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	0.931	< 0.689	< 0.689	1.66 J	23.8 J	2.43
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	12.7	12.7	< 1.20	< 1.20	< 1.20	1.47	< 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	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721
Ethanol	< 1.19 J3	220	< 1.19	5.09	< 1.19	1.98 J	30.9 J	7.96 J	26.2 J	6.58 J	12.4 J	< 1.19
Ethylbenzene	< 0.867	1.8	< 0.867	< 0.867	< 0.867	< 0.867	1.60	< 0.867	< 0.867	< 0.867	4.85	< 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	1.68	1.69	1.22	1.51	1.30	1.44	1.50	1.48	1.49	1.38	1.38	1.21
Dichlorodifluoromethane	2.11	2.42	1.46	2.05	2.20	1.36	1.50	1.45	1.45	1.32	1.38	1.25
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	< 0.818	< 0.818	< 0.818	0.952	< 0.818	< 0.818	< 0.818	< 0.818	< 0.818
Hexachloro-1,3-butadiene	< 6.73 J3	< 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	0.979	< 0.705	< 0.705	< 0.705	< 0.705	0.856	< 0.705	0.865	< 0.705	0.742	< 0.705
Isopropylbenzene	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983
Methylene Chloride	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	< 0.694	1.12 B	1.65 B, J	0.713 B, J	1.06 J	2.10 J	0.725
Methyl Butyl Ketone	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11	< 5.11
2-Butanone (MEK)	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	< 3.69	7.39	< 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	1.47	< 0.819	< 0.819	< 0.819
MTBE	< 0.721	< 0.721	< 0.721	0.91	< 0.721	< 0.721	< 0.721	1.11	< 0.721	< 0.721	< 0.721	< 0.721
Naphthalene	< 3.30 J3	< 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	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
Propene	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689	< 0.689
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	< 0.851	2.57	< 0.851	< 0.851	< 0.851	< 0.851	1.39	< 0.851	< 0.851	< 0.851	2.30	< 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	1,810	691	1,230 M	1,010	222	71.4	69.3	158	163	554	483	325
Tetrahydrofuran	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	3.75	3.70	1.64 J	2.83 J	< 0.590	< 0.590
Toluene	< 0.753	5.35	< 0.753	1.02	< 0.753	< 0.753	11.4	< 0.753	3.29	1.72 J	21.0 J	< 0.753
1,2,4-Trichlorobenzene	< 4.66 J3	< 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	7.15	1.9	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07	< 1.07
1,2,4-Trimethylbenzene	< 0.982	5.12	< 0.982	< 0.982	< 0.982	1.06	1.29	< 0.982	< 0.982	< 0.982	< 0.982	< 0.982
1,3,5-Trimethylbenzene	< 0.982	1.38	< 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	< 1.73	9.13	< 1.73	< 1.73	< 1.73	< 1.73	4.98	< 1.73	< 1.73	< 1.73	14.1	< 1.73
o-Xylene	< 0.867	3.58	< 0.867	< 0.867	< 0.867	< 0.867	1.89	< 0.867	< 0.867	< 0.867	3.75	< 0.867
TPH _g	1,030	693	1,590	1,190	< 207	< 207	317	401 J	248 J	562	703	423

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	11/20/2017	2/8/2018	2/8/2018	5/21/2018	5/21/2018	8/3/2018	8/3/2018	11/19/2018	3/18/2019	3/18/2019	5/13/2019	5/13/2019
Acetone	<2.97	53.8 J	33.3 J	294 J	<2.97	<2.97	3.94	6.86	<2.97	3.61	7.6 M	279 M
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<2.3	<2.4
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	0.91	<0.48
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<3.8	<3.9
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<2	<2
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<7.7	<7.8
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<1.2	<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	<0.66	<0.67
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	0.637	<0.622	<0.622	<0.92	<0.94
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.9	<1.9
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<1.4	<1.4
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.78	<0.8
Chloroform	4.09	<0.973	1.09	<0.973	<0.973	24.4	23.6	3.11	4.34	4.03	2.0	1.8
Chloromethane	<0.413	<0.413	<0.413	0.636	<0.413	<0.413	<0.413	0.787	<0.413	<0.413	<0.61	<0.63
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	--	--
Cyclohexane	2.40	0.833	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<2.6	<2.6
Dibromochloromethane	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<2.5	<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	<1.1	<1.2
1,2-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.8	<1.8
1,3-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.8	<1.8
1,4-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<4.5	<4.6
1,2-Dichloroethane	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.6	<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	<1.2	<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	<1.2	<1.2
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<1.2	<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	<1.2	<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	<1.4	<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	<1.3	<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	<1.3	<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	<5.3	<5.5
Ethanol	1.58	7.20 J	2.33 J	6.35 J	1.83 J	<1.19	3.45	9.57	3.08	3.42	4.3 M	82.0 M
Ethylbenzene	<0.867	2.68 J	1.57 J	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<1.3	17.2
4-Ethyltoluene	<0.982	<0.982	<0.982	3.04	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<3.6	4.4
Trichlorofluoromethane	1.20	1.22	1.51	1.24	1.20	1.62	1.59	1.34	1.39	1.28	<1.7	<1.7
Dichlorodifluoromethane	1.22	1.45	1.28	1.28	1.33	1.74	1.76	1.88	1.39 M	2.30 M	2.0	2.0
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<2.3	<2.3
1,2-Dichlorotetrafluoroethane	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<2.1	<2.1
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<1.2	<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	<7.9	<8.1
n-Hexane	<0.705	2.31 J	1.17 J	<0.705	<0.705	<0.705	<0.705	<0.705	1.10	1.39	<1	1.8
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<3.6	4.8
Methylene Chloride	<0.694	<0.694	<0.694	<0.694	0.856	<0.694	<0.694	<0.694	3.92	4.87	<5.2	8.3
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<6.1	<6.2
2-Butanone (MEK)	<3.69	<3.69	<3.69	50.3	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<4.4	60.5
4-Methyl-2-pentanone (MIBK)	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<6.1	<6.2
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<1.2	<1.2
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<5.3	<5.5
Naphthalene	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.9	<4
2-Propanol	<3.07	41.6	34.9	5.24	<3.07	<3.07	<3.07	<3.07	<3.07	<3.07	<3.6	38.1
Propene	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.51	<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	<1.3	<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	<1
Tetrachloroethylene	323	195 J	298 J	247	235	449	438	89.2	252 M	170 M	107	93.2
Tetrahydrofuran	<0.59	4.48 J	2.53 J	0.601 J	1.08 J	<0.590	<0.590	<0.590	<0.590	<0.590	<0.88	7.3
Toluene	<0.753	15.4 J	1.27 J	2.74 J	1.09 J	<0.753	<0.753	<0.753	<0.753	0.904	7.7	6.6
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<11	<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	<1.6	<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	<0.81	<0.83
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	1.30	<1.07	9.8	<0.81
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	7.17	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	4.4 M	8.9 M
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	2.17	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<1.5	3.9
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<3.5	<3.5
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.38	<0.39
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<1.3	<1.3
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1	<1.1
m&p-Xylene	<1.73	10.9 J	6.18 J	2.36	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	9.6 M	57.5 M
o-Xylene	<0.867	3.29 J	1.96 J	1.51	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	3.2 M	17.0 M
TPH _g	364	369 J+	481	418 J+	244 J+	410	411	<207	270 J+	<207	<152	1,930

See notes at end of table.

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

Sample Location	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D DUP	VP-D	VP-D	VP-D DUP	VP-D	VP-D DUP
Depth (ft bgs)	5	5	5	5	5	5	5	5	5	5	5	5	5
Date	8/19/2019	8/19/2019	11/4/2019	11/4/2019	2/24/2020	2/24/2020	11/4/2020	11/4/2020	8/31/2021	1/26/2022	1/26/2022	7/18/2022	7/18/2022
Acetone	7.51 M	23.8 M	<2.97	<2.97	<2.97	<2.97	4.90	6.58	<2.97	3.83	4.75	<2.97	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	<0.626
Benzene	<0.639	<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	<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	<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	<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	<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	<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	<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	<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	<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	<0.528
Chloroform	<0.973	<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	1.11 M	3.52 M	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	1.22	<0.413	<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	<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	<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	<1.70
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	<1.54
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	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	1.77	1.36	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
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	<1.20
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	<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	<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	<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	<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	<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	<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	<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	<0.908
1,4-Dioxane	<0.721	<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	4.00 M	19.8 M	<1.19	<1.19	3.43	4.37	11.40	8.45	<2.36	13.4 M	6.49 M	3.09 M	6.64 M
Ethylbenzene	<0.867	<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	<0.982	2.75	2.28	2.56	1.68	<0.982	<0.982	<0.982	<0.982	<0.982
Trichlorofluoromethane	1.23	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	2.40	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	<1.53
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	<1.40
Heptane	<0.818	<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	<6.73
n-Hexane	0.834	<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	<0.983
Methylene Chloride	0.696 J+	0.744 J+	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	<0.694	2.33	<0.694	<0.694	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	<5.11
2-Butanone (MEK)	<3.69	<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	<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	<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	<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	<3.30
2-Propanol	<3.07	<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	<0.689	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	<0.851	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	<1.37
Tetrachloroethylene	<1.36	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	<0.590
Toluene	1.23 M	2.54 M	<0.753	<0.753	6.52	4.14	4.90	2.02	<1.88	2.78 M	1.94 M	<1.88	<1.88
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	<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	<1.09
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	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	3.16	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07
1,2,4-Trimethylbenzene	<0.982	<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	<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	<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	<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	<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	<0.704
m&p-Xylene	<1.73	<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	<0.867	2.10	1.57	2.27	1.17	<0.867	<0.867	<0.867	<0.867	<0.867
TPH _g	<207	<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	VP-D
Depth (ft bgs)	5	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	7/23/2024
Acetone	<2.97	<2.97	<2.97	<2.97	<2.97	5.06	<1.39	<2.97	4.85
Allyl Chloride	<0.626	<0.626	<0.626	<0.626	<0.626	<0.626	<0.357	<0.626	<0.626
Benzene	<0.639	<0.639	<0.639	<0.639	<0.639	<0.639	<0.228	<0.639	<0.639
Benzyl Chloride	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<0.311	<1.04	<1.04
Bromodichloromethane	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<0.471	<1.34	<1.34
Bromoform	<6.21	<6.21	<6.21	<6.21	<6.21	<6.21	<0.757	<6.21	<6.21
Bromomethane	<0.776	<0.776	<0.776	<0.776	<0.776	<0.776	<0.381	<0.776	<0.776
1,3-Butadiene	<4.43	<4.43	<4.43	<4.43	<4.43	<4.43	<0.230	<4.43	<4.43
Carbon Disulfide	<0.622	<0.622	<0.622	<0.622	<0.622	<0.622	<0.317	<0.622	<1.24
Carbon Tetrachloride	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.461	<1.26	<1.26
Chlorobenzene	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.385	<0.924	<0.924
Chloroethane	<0.528	<0.528	<0.528	<0.528	<0.528	<0.528	<0.263	<0.528	<0.528
Chloroform	<0.973	<0.973	<0.973	<0.973	<0.973	<0.973	<0.349	<0.973	<0.973
Chloromethane	<0.413	<0.413	<0.413	<0.413	<0.413	<0.413	<0.213	<0.413	<0.413
2-Chlorotoluene	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<0.427	<1.03	<1.03
Cyclohexane	<0.689	<0.689	<0.689	<0.689	<0.689	<0.689	<0.259	<0.689	<0.689
Dibromochloromethane	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<0.618	<1.7	3.12
1,2-Dibromoethane	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<0.554	<1.54	<1.54
1,2-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.770	<1.2	<1.20
1,3-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<1.09	<1.2	<1.20
1,4-Dichlorobenzene	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20	<0.335	<1.2	<1.20
1,2-Dichloroethane	<0.810	<0.810	<0.810	<0.810	<0.810	<0.810	<0.283	<0.81	<0.810
1,1-Dichloroethane	<0.802	<0.802	<0.802	<0.802	<0.802	<0.802	<0.290	<0.802	<0.802
1,1-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.302	<0.793	<0.793
cis-1,2-Dichloroethene	<0.793	<0.793	<0.793	<0.793	<0.793	<0.793	<0.311	<0.793	0.959
trans-1,2-Dichloroethene	<0.793	1.03	<0.793	<0.793	<0.793	<0.793	<0.267	<0.793	<0.793
1,2-Dichloropropane	<0.924	<0.924	<0.924	<0.924	<0.924	<0.924	<0.351	<0.924	<0.924
cis-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.313	<0.908	<0.908
trans-1,3-Dichloropropene	<0.908	<0.908	<0.908	<0.908	<0.908	<0.908	<0.331	<0.908	<0.908
1,4-Dioxane	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.300	<2.27	<2.27
Ethanol	<2.36	3.94	8.58	7.73	<4.71	40.2	<0.500	5.30 J+	6.30
Ethylbenzene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.362	<0.867	<0.867
4-Ethyltoluene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.384	<0.982	<0.982
Trichlorofluoromethane	1.44	1.50	1.45	1.43	1.47	1.47	1.40	1.26	1.31
Dichlorodifluoromethane	2.78	2.72	2.57	2.51	2.60	2.51	2.26	1.88	3.12
1,1,2-Trichlorotrifluoroethane	<1.53	<1.53	<1.53	<1.53	<1.53	<1.53	<0.608	<1.53	<1.53
1,2-Dichlorotetrafluoroethane	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<0.622	<1.4	<1.40
Heptane	<0.818	<0.818	<0.818	<0.818	<0.818	<0.818	<0.425	<0.818	<0.818
Hexachloro-1,3-butadiene	<6.73	<6.73	<6.73	<6.73	<6.73	<6.73	<1.12	<6.73	<6.73
n-Hexane	<2.22	<2.22	<2.22	<2.22	<2.22	<2.22	<0.726	<2.22	<2.22
Isopropylbenzene	<0.983	<0.983	<0.983	<0.983	<0.983	<0.983	<0.382	<0.983	<0.983
Methylene Chloride	<0.694	<0.694	<0.694	0.712	<0.694	2.06	<0.340	<0.694	<0.694
Methyl Butyl Ketone	<5.11	<5.11	<5.11	<5.11	<5.11	<5.11	<0.544	<5.11	<5.11
2-Butanone (MEK)	<3.69	<3.69	<3.69	<3.69	<3.69	<3.69	<0.240	<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	<5.12
Methyl methacrylate	<0.819	<0.819	<0.819	<0.819	<0.819	<0.819	<0.359	<0.819	<0.819
MTBE	<0.721	<0.721	<0.721	<0.721	<0.721	<0.721	<0.233	<0.721	<0.721
Naphthalene	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<1.83	<3.3	<3.30
2-Propanol	<3.07	<3.07	<3.07	<3.07	<3.07	5.58	<0.649	<3.07	<3.07
Propene	<2.15	<2.15	<2.15	<2.15	<2.15	<2.15	<0.160	<2.15	<2.15
n-Propylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.379	<0.982	<0.982
Styrene	1.39 M	3.65 M	<0.851	<0.851	<0.851	<0.851	<0.335	<0.851	<1.70
1,1,2,2-Tetrachloroethane	<1.37	<1.37	<1.37	<1.37	<1.37	<1.37	<0.511	<1.37	<1.37
Tetrachloroethylene	58.5	52.5	60.2	58.7	55.4	49.0	105	51.7	55.3
Tetrahydrofuran	<0.590	<0.590	<0.59	<0.59	<0.590	<0.590	<0.216	<0.59	<0.590
Toluene	<1.88	<1.88	<1.88	<1.88	<1.88	<1.88	<0.328	<1.88	<1.88
1,2,4-Trichlorobenzene	<4.66	<4.66	<4.66	<4.66	<4.66	<4.66	<1.10	<4.66	<4.66
1,1,1-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.400	<1.09	<1.09
1,1,2-Trichloroethane	<1.09	<1.09	<1.09	<1.09	<1.09	<1.09	<0.422	<1.09	<1.09
Trichloroethylene	<1.07	<1.07	<1.07	<1.07	<1.07	<1.07	<0.364	<1.07	118
1,2,4-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.375	<0.982	<0.982
1,3,5-Trimethylbenzene	<0.982	<0.982	<0.982	<0.982	<0.982	<0.982	<0.382	<0.982	<0.982
2,2,4-Trimethylpentane	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.621	<0.934	<0.934
Vinyl Chloride	<0.511	<0.511	<0.511	<0.511	<0.511	<0.511	<0.243	<0.511	<0.511
Vinyl Bromide	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.373	<0.875	<0.875
Vinyl Acetate	<0.704	<0.704	<0.704	<0.704	<0.704 UJ	<0.704 UJ	<0.408	<2.22	<2.22
m&p-Xylene	<1.73	<1.73	<1.73	<1.73	<1.73	<1.73	<0.585	<1.73	<1.73
o-Xylene	<0.867	<0.867	<0.867	<0.867	<0.867	<0.867	<0.359	<0.867	<0.867
TPH _g	<826	<826	<826	<826	<826	<826	<164	<826	<826

See notes at end of table.

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

Notes:

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

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

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

See notes at end of table.

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

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

See notes at end of table.

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

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

See notes at end of table.

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

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

See notes at end of table.

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

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

See notes at end of table.

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

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

See notes at end of table.

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

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

See notes at end of table.

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

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

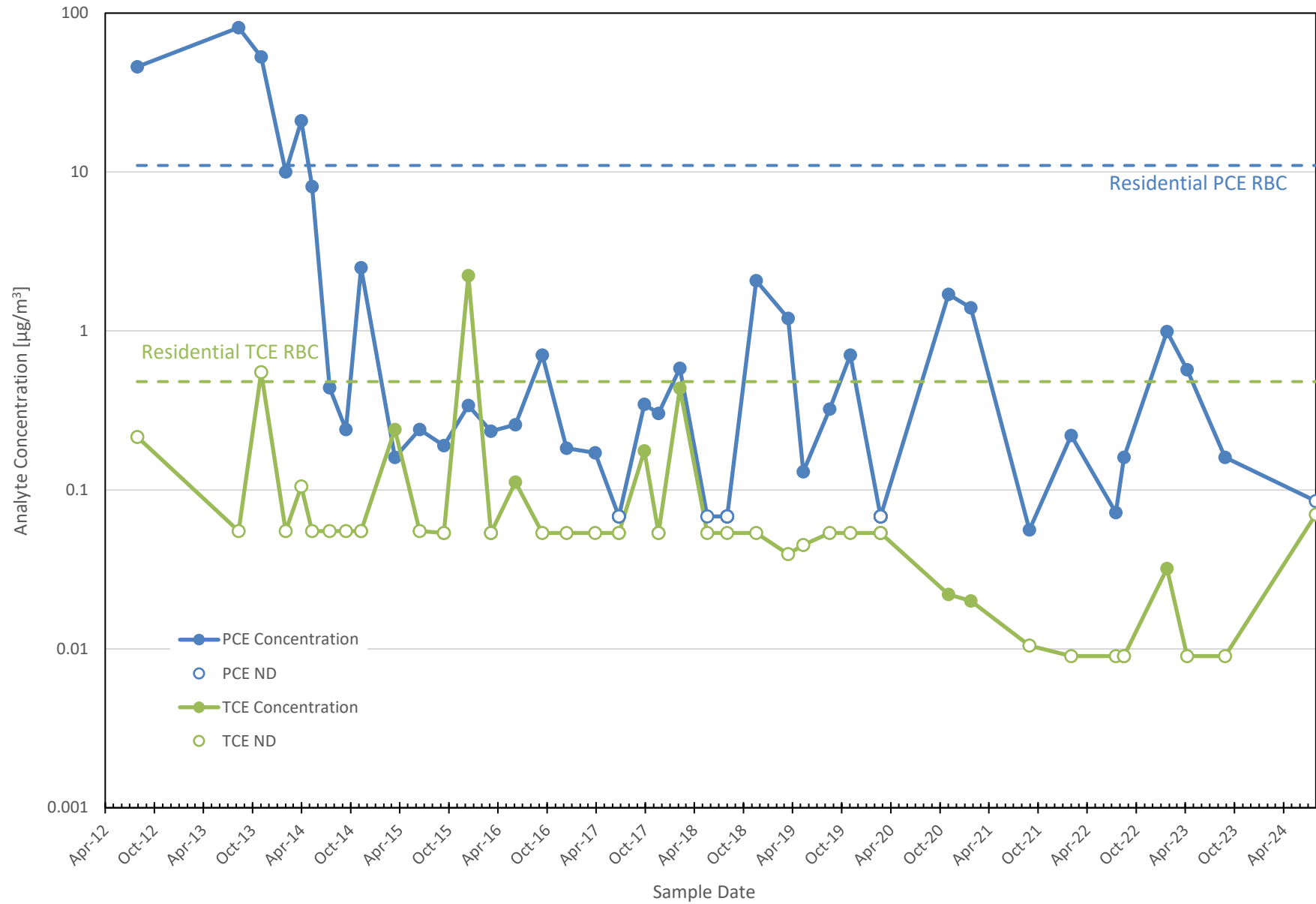
See notes at end of table.

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

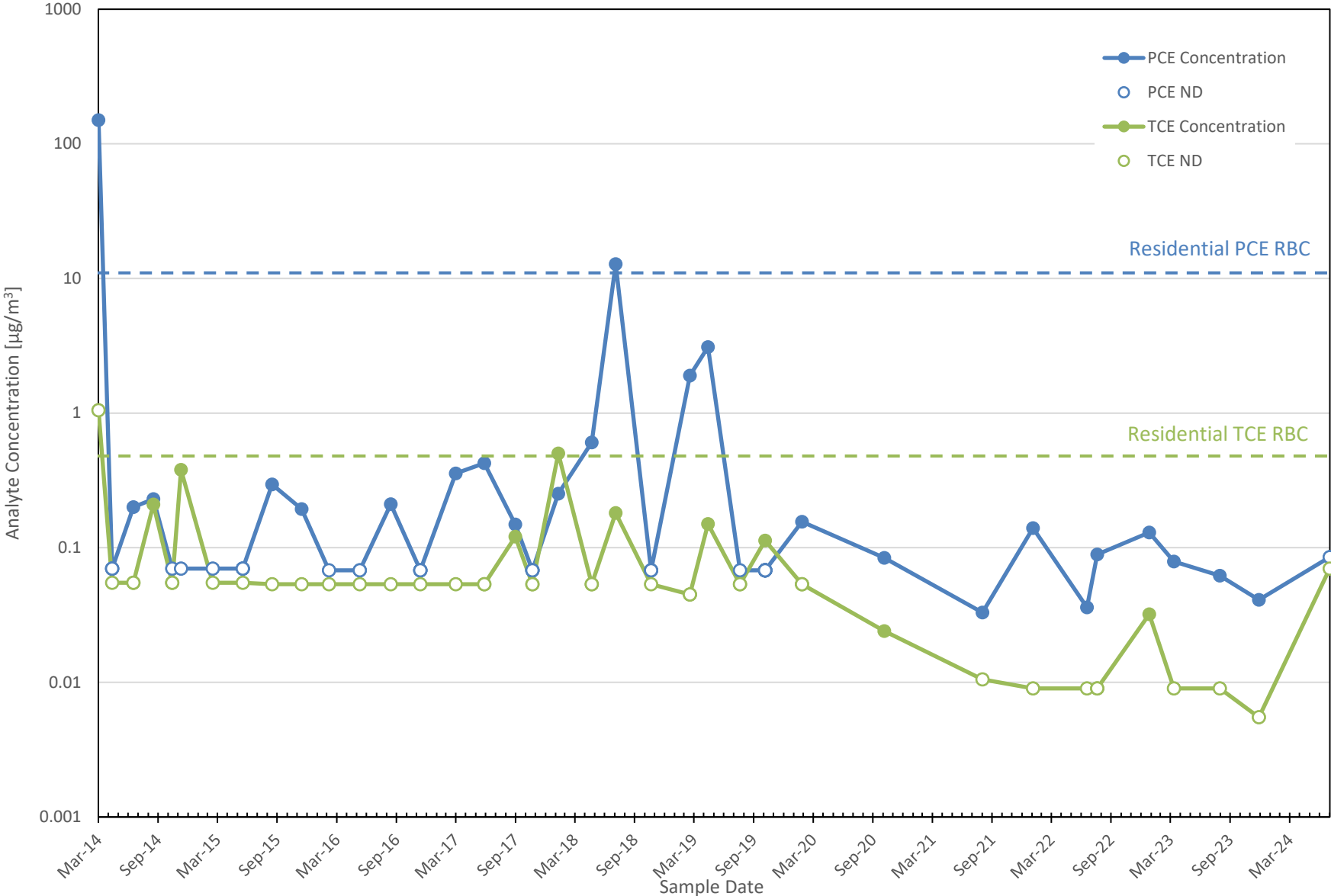
Notes:

- 1. $\mu\text{g}/\text{m}^3$ = 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.

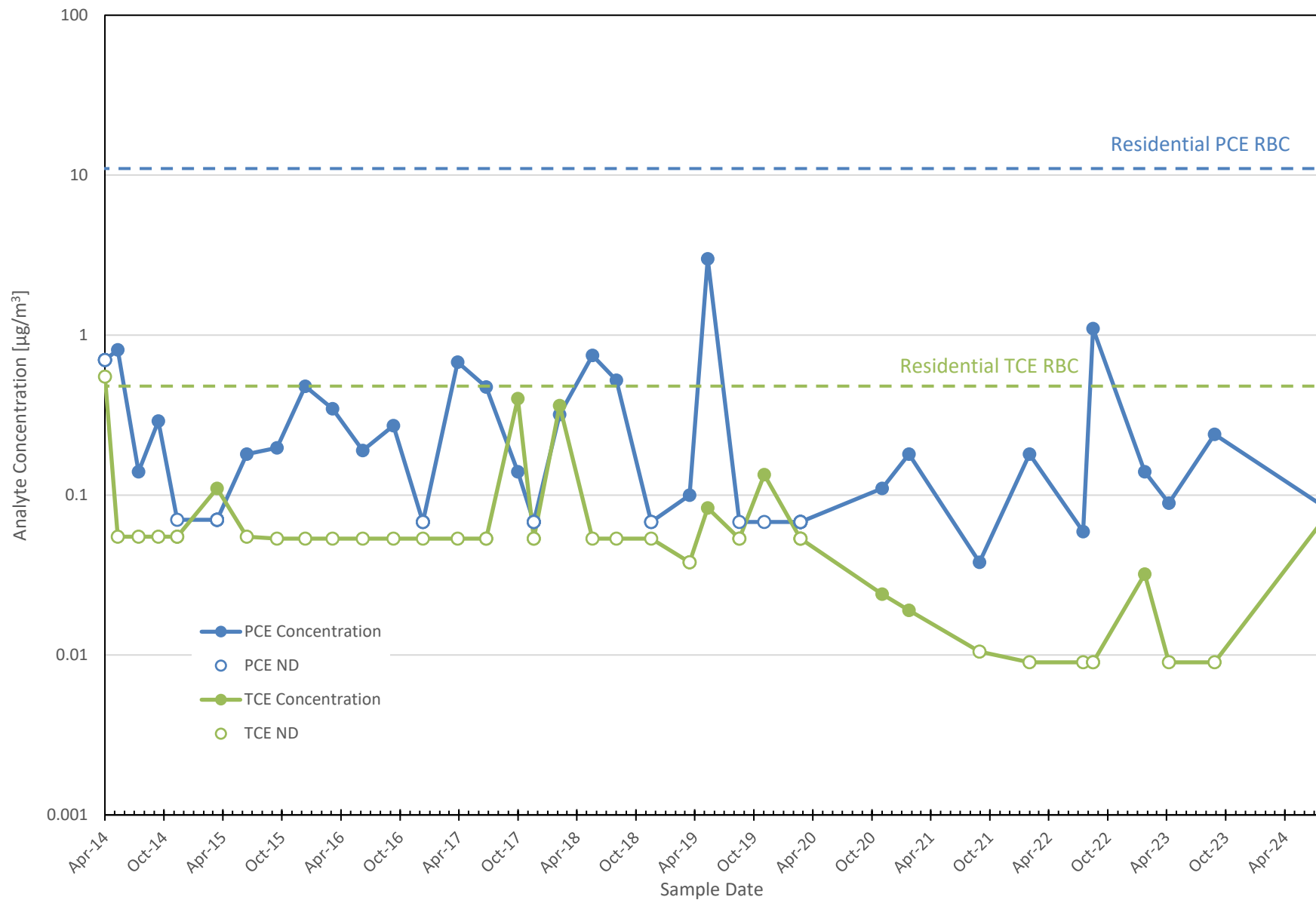
Ambient Air (Indoor): Liddy Residence - Basement



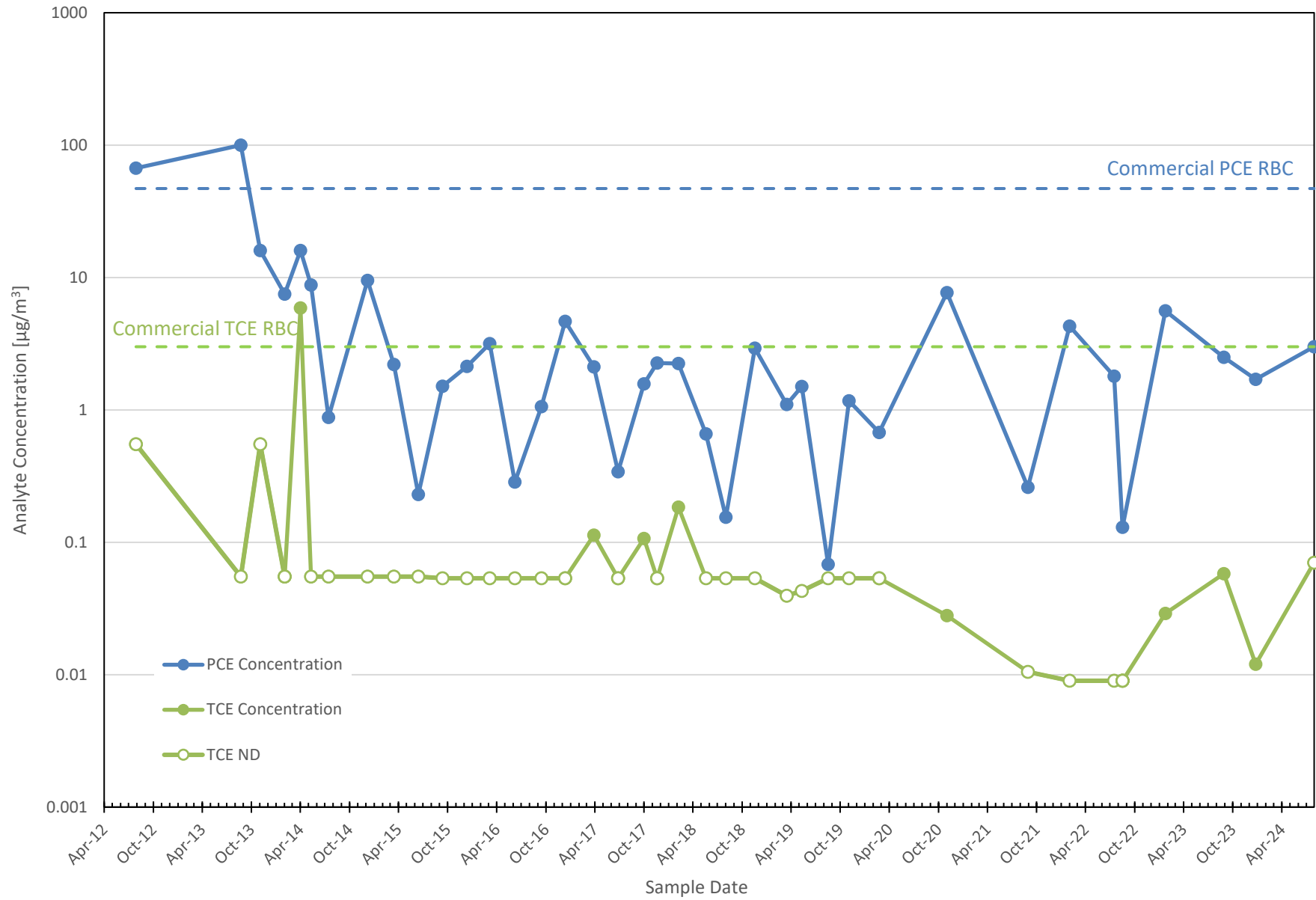
Ambient Air (Outdoor): Window Covering



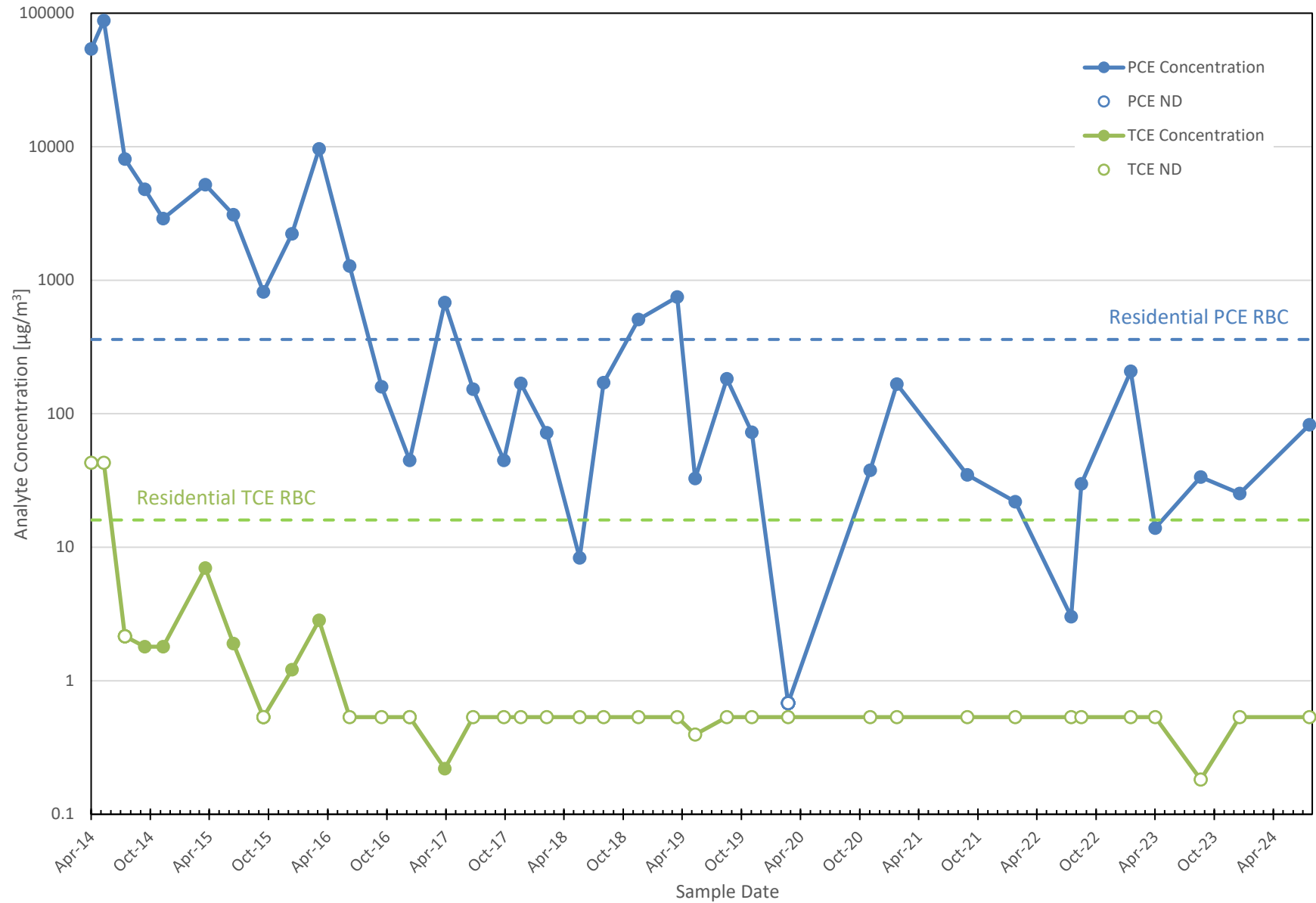
Ambient Air (Outdoor): SVE



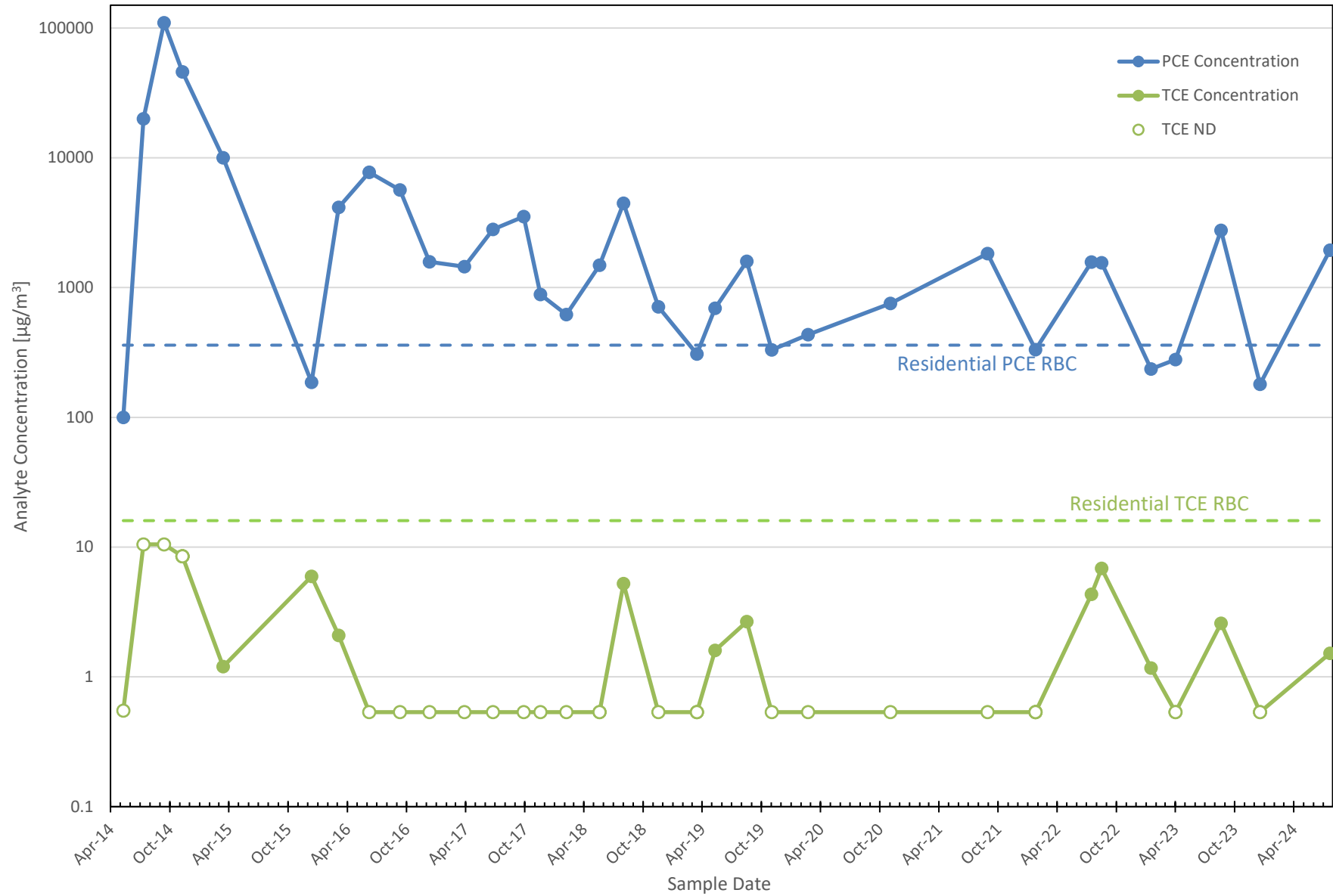
Ambient Air (Indoor): Evol Twin



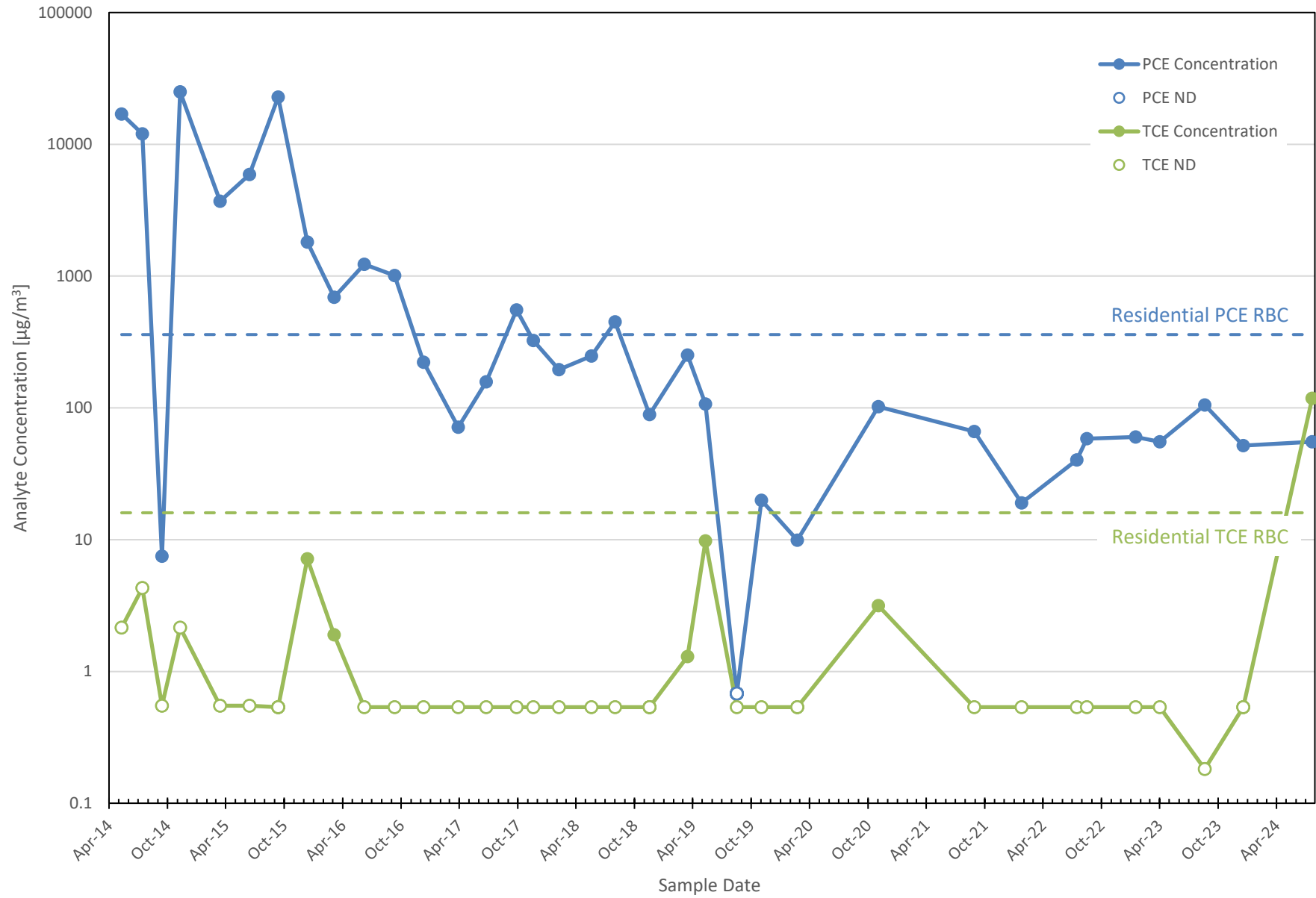
Soil Vapor: SV-12



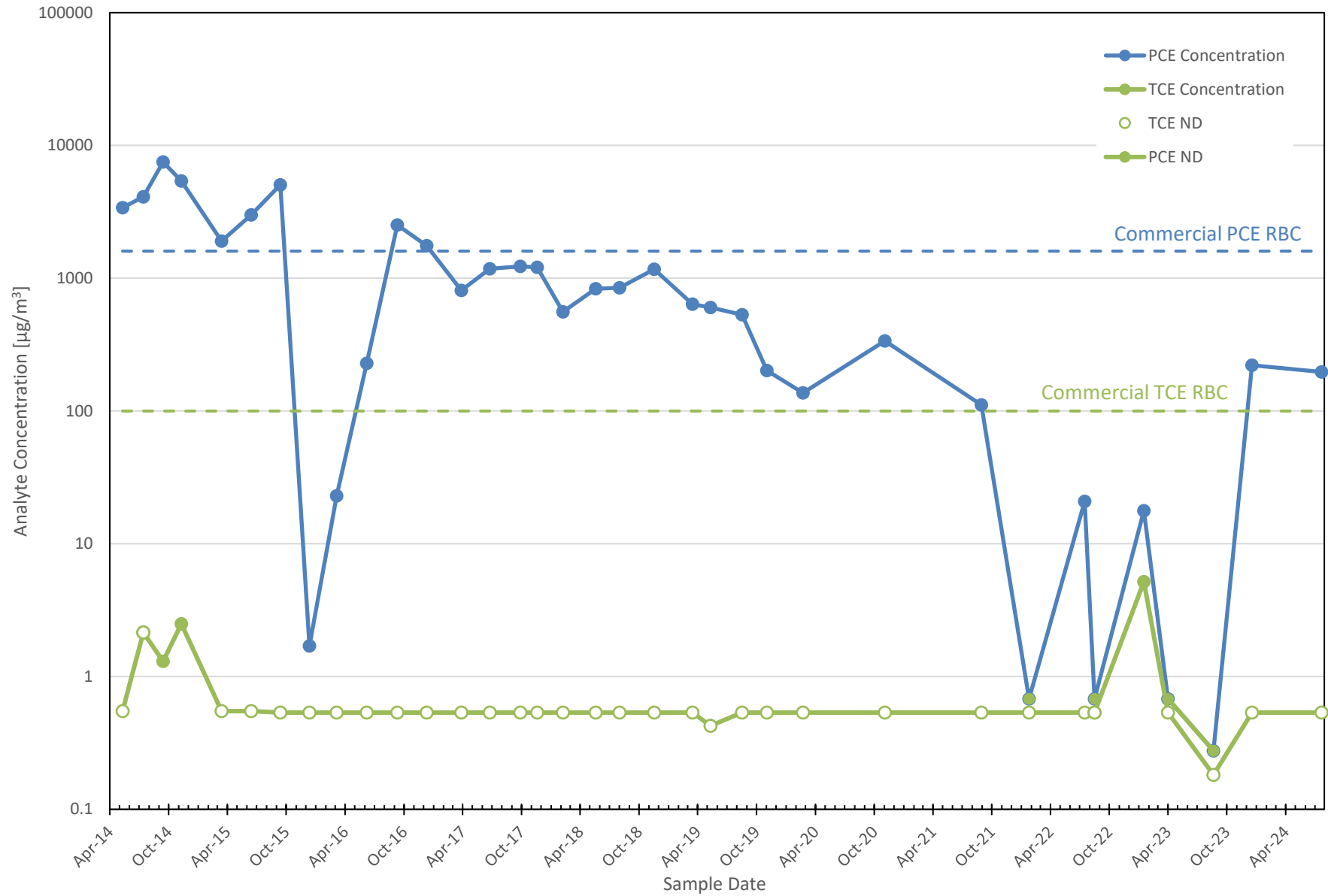
Soil Vapor: VP-B



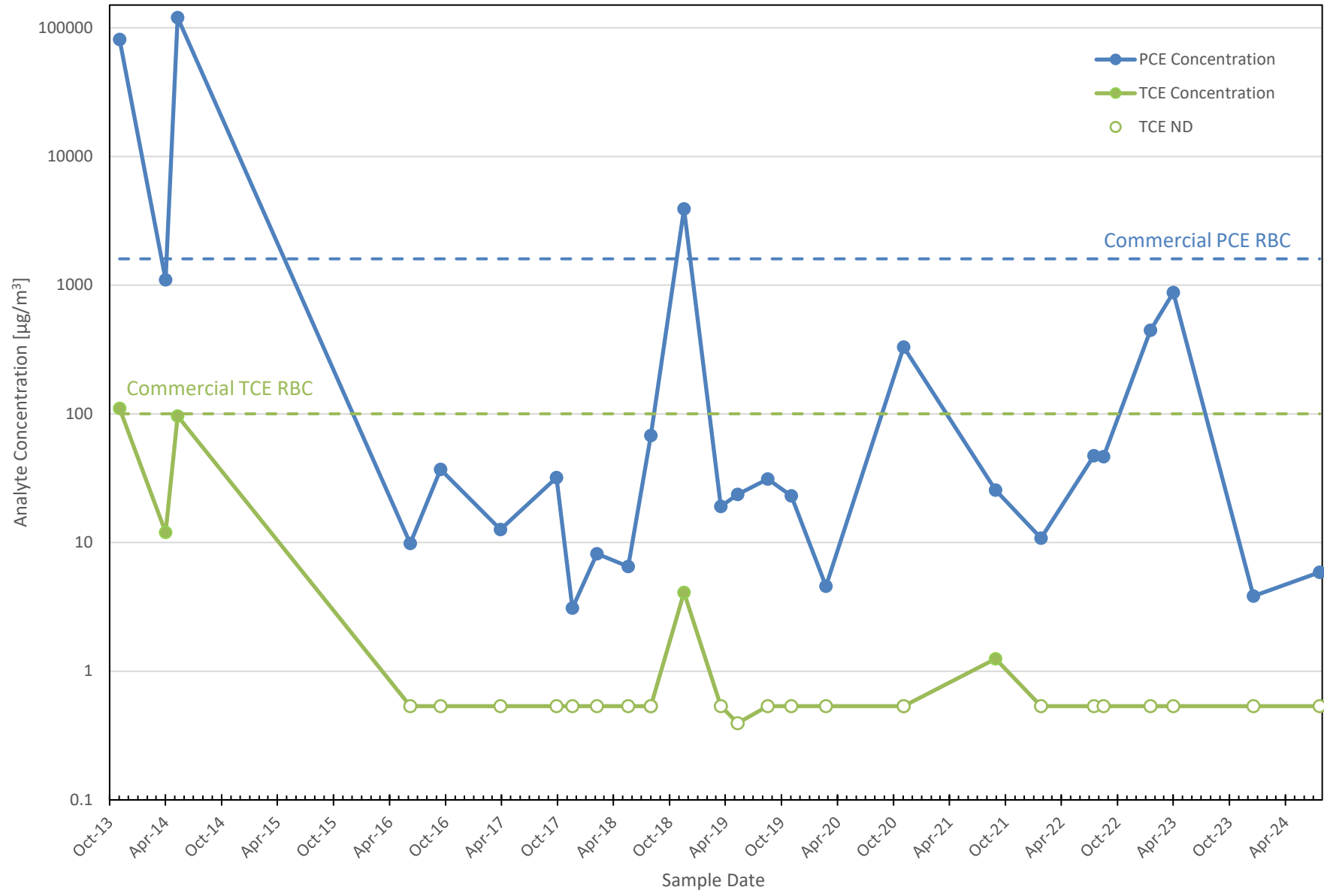
Soil Vapor: VP-D



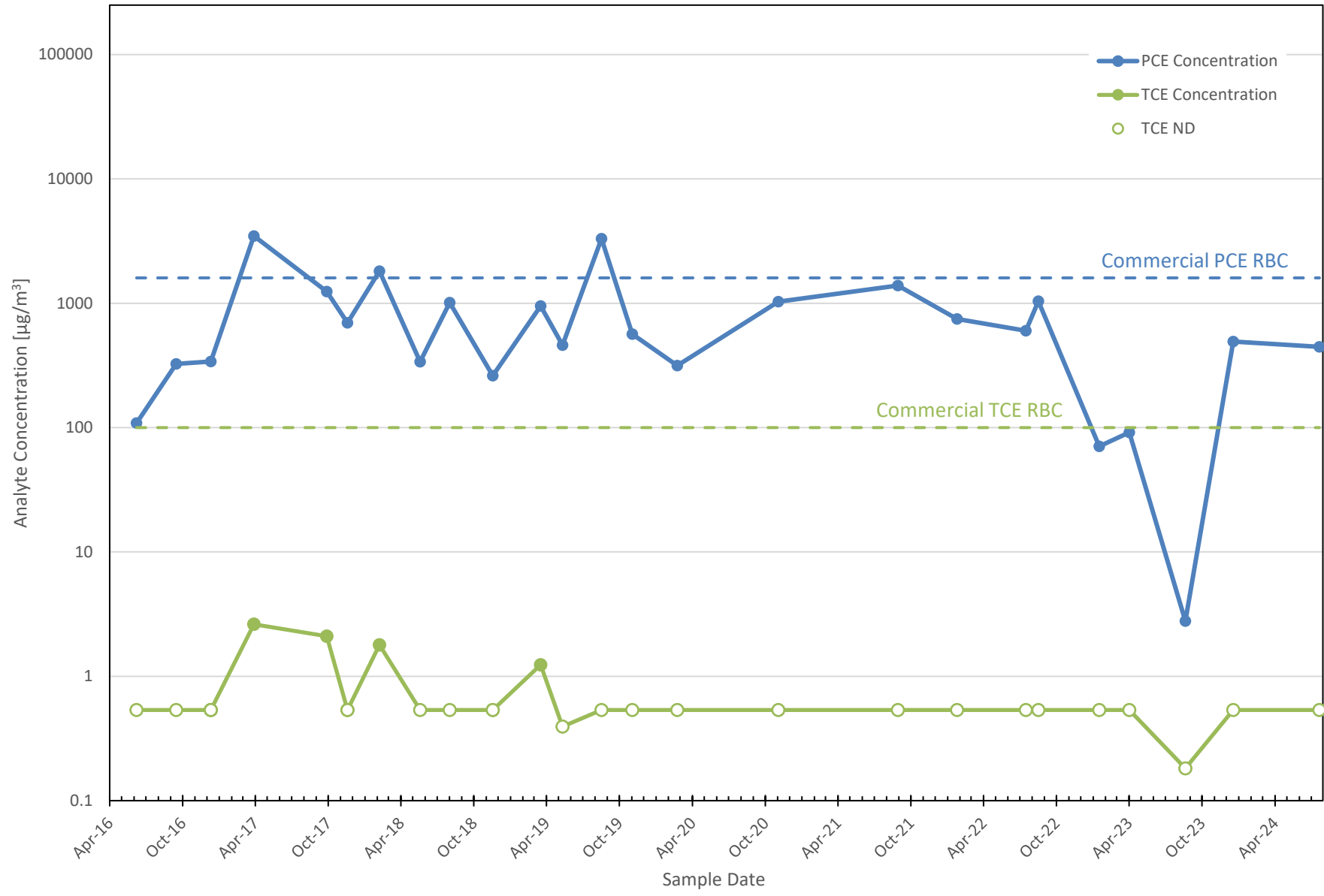
Soil Vapor: VP-C



Soil Vapor: VP-J(5)



Soil Vapor: VP-J(15)



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	$\mu\text{g}/\text{m}^3$	
RBCair - Chronic Residential		11	0.48
3/30/2017	On	0.289	<0.107
6/26/2017	Off	0.122	0.081
9/29/2017	Off	0.311	0.121
11/20/2017	On	0.299	<0.107
2/8/2018	On	0.510	2.24
5/21/2018	On	<0.136	<0.107
July 2018 - System Shut Down			
8/3/2018	Off	0.150	<0.107
11/19/2018	Off	1.70	<0.107
3/18/2019	Off	0.817	<0.09
April 2019 - System Restarted			
5/13/2019	On	0.105	<0.09
8/19/2019	On	0.153	<0.107
11/4/2019	On	0.561	<0.107
2/24/2020	On	<0.136	0.073
June 2020 - Installation of Automatic Timer - System Runs from 8AM to 5PM			
September 2020 - System Shut Down			
November 2020 - Heat Exchanger Turned Off			
11/3/2020	Off	1.19	0.024
1/25/2021	Off	1.16	0.024
January 2021 - System Restarted			
8/25/2021	On	0.046	<0.021
2/2/2022	On	0.203	<0.018
7/18/2022	On	0.050	<0.018
8/18/2022	On	0.114	<0.018
December 2022 - System Shut Down			
1/25/2023	Off	1.20	0.036
4/3/2023	Off	0.793	0.013
June 2023 - System Restarted with Modifications - Liddy Property Wells Turned Off			
8/29/2023	On	0.123	<0.018
7/31/2024 ⁴	On	<0.17	<0.14
Average Concentration - Based on Field Observations of SVE System			
	On	0.191	0.196
	Off	0.827	0.050

Notes:

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