

SOIL VAPOR INTRUSION INVESTIGATION REPORT

**1199 Sutter Avenue
Site Number: C224141
Brooklyn, New York**

March 23, 2022

Submitted to:

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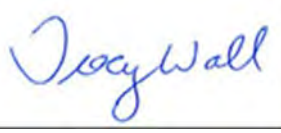
**The following personnel have prepared, reviewed,
and approved this document:**

Soil Vapor Intrusion Investigation Report

**1199 Sutter Avenue
Brooklyn, New York**

BCA Site #244141

I, Tracy Wall, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Subsurface Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



Tracy Wall, PG
Senior Project Manager
Qualified Environmental Professional

March 23, 2022

Date

1.0 INTRODUCTION

The property at 1199 Sutter Avenue, Brooklyn, NY (the Site) is currently in the New York State Brownfield Cleanup Program (BCP), Site No. C224141, which is administered by the New York State Department of Environmental Conservation (NYSDEC). AAA Sutter Realty LLC entered into a Brownfield Cleanup Agreement (BCA) on August 2, 2012, with the NYSDEC to remediate the Site. **Figure 1** shows the site location on a topographic map.

The subsurface at the Site was impacted with tetrachloroethylene (PCE) due to the historical use of the eastern portion of the Site as a dry cleaner. Subsurface investigations and remedial activities were conducted at the Site from January 2009 through August 2018. The remedial activities included several sampling events for soil, soil vapor, ambient air, and groundwater, and two (2) non-emergency interim remedial measures (IRMs), which included in-situ chemical oxidation (ISCO) injections.

Based on the previous remedial investigations, the highest soil sample concentration for PCE was detected at 34,500 micrograms per kilogram (ug/kg) in January 2009 at boring S4, located in the rear parking area to the north of the former dry cleaner/current laundromat. The highest detected groundwater monitoring well sample concentration for PCE was 719 micrograms per liter (ug/L) in MW-10S in August 2017, located beneath the former dry cleaner/current laundromat (in the basement).

After completion of the remedial work, some contamination remains at this Site, which is hereafter referred to as “remaining contamination”. A Track 4 cleanup was implemented at the Site. Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to remaining contamination to ensure the protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Kings County Clerk, required compliance with the Site Management Plan (SMP) and all ECs and ICs placed on the Site.

The ECs include the installation and operation of a soil vapor extraction (SVE) and air sparge (AS) system on the eastern portion of the Site and installation and operation of a sub-slab depressurization system (SSDS) within the supermarket unit adjoining the former dry

cleaner/current laundromat to the west. The SVE/AS remediation system was installed between October 2018 and January 2019 and began operating in January 2019. The purpose of the SVE/AS system is to remediate the areas of remaining contamination in the soil and groundwater. Two (2) SSDSs were installed within the basement of the former dry cleaner/current laundromat and the adjoining supermarket unit in April 2017 and began operating in May 2017. The SSDS wells within the basement of the former dry cleaner/laundromat were disconnected from the mitigation fans and connected to the SVE system in January 2019. The purpose of the SSDSs is to mitigate vapors from entering the basements of the laundromat and supermarket and impacting the indoor air quality.

No operating issues were reported for the SSDS for the supermarket since it began operating. The SVE/AS remediation system shut down in June 2020 due to a high temperature alarm, which was addressed and began operating again the same month. The AS portion of the remediation system was shut down in July 2020 due to a carbon vane that required replacement. In September 2020, it was requested that the AS portion of the system remain off for a period of six (6) months since groundwater monitoring well concentrations had significantly decreased since operating the AS system. On October 15, 2020, the NYSDEC approved that the AS portion of the remediation system could be turned off for a period of six (6) months followed by a permanent shut down should groundwater concentrations continue to decrease or remain stable. For the May 2021 quarterly groundwater monitoring event, groundwater concentrations had shown to decrease since the startup of the remediation system. Based on the continuing downward trend for groundwater concentrations on and off-Site, the NYSDEC approved that the AS system could remain off, but the SVE system would continue to operate.

Since September 2020, photoionization detector (PID) readings recorded from the influent and effluent ports of the SVE system at the Site ranged between not detected to very low readings [less than one (1) parts per million (ppm)]. Due to no to low measured recoverable vapors recorded for the SVE system since September 2020 and a continued decreasing trend in groundwater concentrations for PCE, with the highest concentration of PCE at 26.4 parts per billion (ppb) at MW-10S in May 2021, the SVE system appears to have reached asymptotic levels.

EnviroTrac submitted a Subsurface Investigation Work Plan, dated April 8, 2021, to the NYSDEC to collect subsurface soil samples in the previous boring locations beneath the former dry cleaner/current laundromat and the rear parking lot and also to conduct a soil vapor intrusion (SVI) investigation within the former dry cleaner/current laundromat and adjoining supermarket unit. The Work Plan was approved by the NYSDEC on April 23, 2021. The results of the Subsurface Investigation were provided in a report dated June 30, 2021. The soil samples showed no exceedances for the applicable NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) for volatile organic compounds (VOCs). The results of the SVI investigation showed that following six (6) days after shutting down the SVE system and SSDS for the adjoining supermarket unit, that mitigation was not warranted for the adjoining supermarket unit, but due to elevated trichloroethene (TCE) concentrations in the indoor air for the former dry cleaner/current laundromat, the extraction points within the former dry cleaner/current laundromat basement should be reconnected to the SSDS fan and turned on. It was requested that the SVE system remain off and the SSDS for the former dry cleaner/current laundromat be turned back on. Based on the continued downward trend for groundwater concentrations in the on and off-Site monitoring wells, it was also requested that groundwater monitoring events be reduced from quarterly to annual.

The NYSDEC and the New York State Department of Health (NYSDOH) reviewed the report for the above investigation and approved that the SVE system could remain off, the SSDS within the adjoining supermarket unit could remain off, but the extraction points in the basement of the former dry cleaner/current laundromat were required to be reconnected to the SSDS to mitigate chlorinated solvent vapors from entering the basement. It was also recommended that a follow-up SVI investigation be conducted in both the former dry cleaner/current laundromat and adjoining supermarket unit during the next heating season (November 15th to March 31st). The NYSDOH comment letter on the Subsurface Investigation Report was dated August 18, 2021. On September 17, 2021, the SVE system was disconnected from the extraction points and wells located in the rear parking lot, front sidewalk, and the basement of the former dry cleaner/current laundromat, and the extraction points in the basement were reconnected to the SSDS fans. Also during this time, the valves on the SSDS extraction points within the adjoining supermarket unit were turned to the closed/off position. The follow-up SVI investigations were conducted on February 17, 2022 and are summarized in this report.

Figure 2 shows the SVE/AS system, groundwater monitoring well locations, previous soil boring locations, and previous sub-slab soil vapor, indoor air, and outdoor air sample locations at the Site.

1.1 Objectives

The SVI Investigations were conducted to address the following objective:

- Determine if mitigation of soil vapors beneath the adjoining supermarket is still required, and to monitor the sub-slab soil vapor and indoor air within the former dry cleaner/current laundromat.

2.0 SCOPE OF WORK

2.1 Overview

SVI investigations were conducted within the basements of the former dry cleaner/current laundromat and adjoining supermarket. The SSDS in the supermarket unit was shut off on September 17, 2021, prior to the start of the SVI investigations. The SSDS in the former dry cleaner/current laundromat remained on since the previous SVI investigation for this unit showed that it was required to mitigate sub-slab soil vapors from entering the basement. The SVI investigations were conducted on February 17, 2022 and included the collection of one (1) sub-slab soil vapor sample and one (1) indoor air sample within each of the basements of the former dry cleaner/current laundromat and supermarket, and one (1) outdoor air sample from the rear parking lot. The samples were collected over an eight (8) hour period and were laboratory analyzed for VOCs by EPA Method TO-15. **Figure 3** shows the locations of the sub-slab soil vapor samples, the indoor air samples, and the outdoor air sample locations.

2.2 Summary of Previous Site Investigation Results

Below lists the previously performed remedial investigations for the Site.

- **Summary Letter of Phase II Subsurface Investigation, 1199-1221 Sutter Avenue, Brooklyn, New York. Atlantic Environmental Solutions, Inc., January 12, 2009;**
- **Phase II Subsurface Investigation, 1199-1221 Sutter Avenue, Brooklyn, New York. Associated Environmental Services, Ltd., May 19, 2009;**
- **Remedial Action Report, 1199-1221 Sutter Avenue, Brooklyn, New York. Associated Environmental Services, Ltd., January 29, 2010;**
- **Remedial Action Report Addendum, 1199-1221 Sutter Avenue, Brooklyn, New York. Associated Environmental Services, Ltd., March 24, 2010;**
- **Remedial Investigation Report, 1199-1221 Sutter Avenue, Brooklyn, New York. Associated Environmental Services, Ltd., July 23, 2015;**
- **Supplemental RI Report, 1199-1221 Sutter Avenue, Brooklyn, New York. Associated Environmental Services, Ltd., July 6, 2016.**

Soil

Soil samples were previously collected from the Site during the Phase II ESA, Supplemental Phase II ESA, Site Characterization, and Supplemental RI. The previous soil sampling results showed that PCE was detected at concentrations that exceeded its 6 NYCRR Part 375 Subpart 375-6.8 Residential Use Soil Cleanup Objective (RUSCO) and Restricted Residential Use Soil Cleanup Objective (RRUSCO) in three (3) borings located beneath the former dry cleaner/current laundromat and in the rear parking lot to the north of the former dry cleaner unit/current laundromat. The Subsurface Investigation conducted in May 2021 included the collection of soil samples from the previous boring three (3) boring locations for laboratory analysis of VOCs via US Environmental Protection Agency (EPA) Method 8260. The results were either non detect or showed that the concentrations were detected below their respective NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs). The results are summarized in the Subsurface Investigation Report, dated June 2021. Based on these results, it was approved by the NYSDEC and the NYSDOH that the SVE system remain off, but that a follow-up SVI investigation should be conducted during the next heating season.

Groundwater

Groundwater samples were previously collected from the Site during the Phase II ESA, Supplemental Phase II ESA, IRM, Site Characterization, RI, Supplemental RI, and other groundwater sampling events. Previous groundwater samples were also collected from the adjoining properties to the south and east during the Site Characterization, RI, and Supplemental RI. The previous groundwater monitoring results showed that PCE, TCE, cis-1,2-dichloroethene (cis-1,2-DCE), acetone, and chloroform were detected at concentrations that exceeded their respective NYSDEC Class GA Ambient Water Quality Standards and Guidance Values (NYSDEC Groundwater Standards) in locations beneath the former dry cleaner, in the rear parking lot to the north of the former dry cleaner unit, to the south beneath the sidewalk along the northern and southern portions of Sutter Avenue, and on the adjoining property to the south, across Sutter Avenue during the previous investigations. The results of the previous investigations showed that elevated levels of CVOCs in groundwater existed beneath the Site and had migrated to the south, across Sutter Avenue. Based on the continued downward trend shown in the May 2021 groundwater monitoring event, it was approved by the NYSDEC and NYSDOH that groundwater monitoring could be reduced from a quarterly to an annual basis. During the August 2021 groundwater monitoring event, chloroform and PCE were detected in

MW-1S, but at concentrations well below their respective NYSDEC Groundwater Standards, chloroform was detected in MW-2S at a concentration slightly above its NYSDEC Groundwater Standard, cis-1,2-DCE PCE, and TCE were detected in MW-5S, but cis-1,2-DCE and TCE were detected well below their respective NYSDEC Groundwater Standards and PCE was detected slightly above its NYSDEC Groundwater Standard, chloroform and PCE were detected in MW-8S, but chloroform was detected at a concentration below its NYSDEC Groundwater Standard and PCE was detected slightly above its NYSDEC Groundwater Standard, PCE was detected in MW-10S at a concentration slightly above its NYSDEC Groundwater Standard, and chloroform was detected in MW-11S at a concentration very slightly above its NYSDEC Groundwater Standard. These results are summarized in the Periodic Review Report dated September 2021.

Soil Vapor Intrusion

Sub-slab soil vapor samples, soil gas samples, indoor air samples, and outdoor air samples were previously collected from the Site and in the vicinity of adjoining properties to the north, south, and east during the Site Characterization and RI. The results were compared to the NYSDOH Matrices 1 and 2 included in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006. The previous sampling results showed that vapors emanating from soil and groundwater located beneath the Site were infiltrating into the former dry cleaner unit and had the potential to infiltrate into the adjacent supermarket unit. The results showed that no SVI impacts were present in the other units within the Site building or in the vicinity of the adjoining properties to the north, south, and east. Based on these results, an SVE/AS remediation system was installed at the Site and the SSDS was installed within the adjoining supermarket unit, to address and mitigate soil and soil vapor impacts. In May 2021, the SVE system and SSDS within the adjoining supermarket unit were shut down for a period of six (6) days and an SVI investigation was conducted within the basements of the former dry cleaner/current laundromat and adjoining supermarket unit. The results indicated a significant decrease in sub-slab soil vapor and indoor air concentrations for PCE and TCE; however, it was recommended by the NYSDEC and NYSDOH that a follow-up SVI investigation for both basement units be conducted during the next heating season and following a longer shutdown period of the SVE system and SSDS within the adjoining supermarket unit. The NYSDEC and NYSDOH approved the shutdown of the SVE system. The SVE system was shut down on September 17, 2021, and the extraction points within the former dry cleaner/current laundromat

basement were reconnected to the SSDS fans. Also during this time, the valves on the adjoining supermarket SSDS extraction points were closed.

2.3 Technical Approach

2.3.1 Soil Vapor Intrusion (SVI) Investigation Procedures

2.3.1.1 Pre-sampling Inspection

A pre-sampling inspection was performed immediately prior to initiating sample collection to document potential sources of VOCs and other important features (e.g., HVAC layout and operation) within the sampling area and ultimately to aid in the interpretation of the sampling results. The inspection included the following:

- a. current storage and uses of volatile chemicals were identified;
- b. the use of heating or air conditioning systems during sampling was noted;
- c. floor plan sketches were drawn that include the floor layout with sampling locations, chemical storage areas, doorways, stairways, location of basement sumps or subsurface drains and utility perforations through building foundations, HVAC system air supply and return registers, compass orientation (north), footings that create separate foundation sections, and any other pertinent information will be completed;
- d. the building floor was inspected and any penetrations (cracks, floor drains, utility perforations, sumps, etc.) were noted and recorded/photographed;
- e. outdoor plot sketches were drawn that include the building site, area streets, outdoor air sampling locations (if applicable), compass orientation (north), and paved areas;
- f. weather conditions (e.g., precipitation and indoor and outdoor temperature) and ventilation conditions (e.g., heating system active and windows closed) were reported; and
- g. any pertinent observations, such as spills, floor stains, smoke tube results, odors, and readings from field instrumentation (e.g., vapors via PID, ppb RAE, Jerome Mercury Vapor Analyzer, etc.), were recorded.

Results of the pre-sampling inspection are provided in **Appendix A**. Chemicals stored within the basement of the laundromat included several containers of laundry detergent, bleach, and fabric

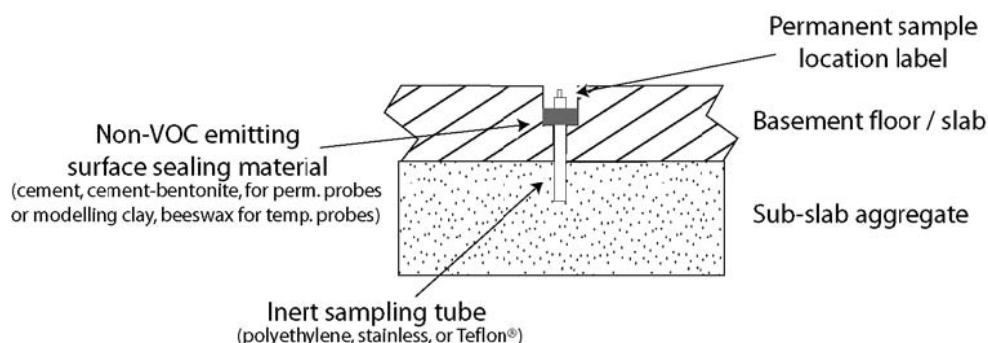
softener. Chemicals stored within the basement of the supermarket included several containers of retail-sized household cleaners; however, these containers were not stored in close proximity to the sampling area.

2.3.1.2 Sub-slab Soil Vapor Sampling

Sub-slab sampling probes were installed at locations where the potential for ambient air infiltration via floor penetrations is minimal to the extent practicable.

- a. temporary probes were constructed with inert $\frac{1}{4}$ inch-diameter polyethylene tubing and of food grade quality;
- b. tubing did not extend further than 2 inches into the sub-slab material;
- c. porous, inert backfill material (Morie #0 gravel) was added to cover about 1 inch of the tubing; and
- d. the tubing was sealed to the surface with non-VOC-containing and non-shrinking modeling clay.

The following schematic of a sub-slab vapor probe construction is consistent with NYSDOH guidance.



Sub-slab Vapor Sampling:

To obtain representative samples that meet the data quality objectives, sub-slab vapor samples were collected in the following manner:

- a. after installation of the probes, one (1) to three (3) volumes (i.e., the volume of the sample probe and tube) were purged prior to collecting the samples to ensure samples collected are representative;
- b. flow rates for both purging and collecting did not exceed 0.2 liters per minute to minimize ambient air infiltration during sampling; and
- c. samples were collected, using conventional sampling methods, in an appropriate container — one which;
 - i. meets the objectives of the sampling (e.g., investigation of areas where low or high concentrations of volatile chemicals are expected; to minimize losses of volatile chemicals that are susceptible to photo-degradation),
 - ii. is consistent with the sampling and analytical methods (i.e., low flow rate; Summa canisters analyzing by using EPA Method TO-15), and
 - iii. is certified clean by the laboratory;
- d. sample size depends upon the volume of that achieved minimum reporting limits, the flow rate, and the sampling duration; and
- e. samples were generally collected over the same period as concurrent indoor and outdoor air samples.

The field sampling team maintained a sample log sheet summarizing the following:

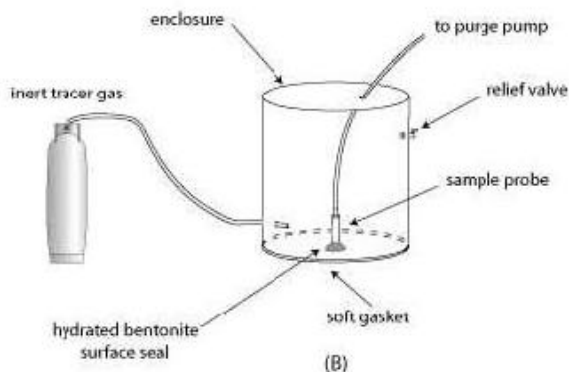
- a. Sample identification;
- b. Date and time of sample collection;
- c. Sampling depth;
- d. Identity of samplers;
- e. Sampling methods and devices;
- f. Purge volumes;
- g. Volume of soil vapor extracted;
- h. Canister vacuum before and after samples were collected;
- i. Apparent moisture content (dry, moist, saturated, etc.) of the sampling zone; and
- j. Chain of custody protocols and records used to track samples from sampling point to analysis.

Tracer gas:

When collecting sub-slab soil vapor samples, a tracer gas was used as a quality assurance/quality control measure to verify the integrity of the soil vapor probe seal. Without the use of a tracer, there is no way to verify that a soil vapor sample has not been diluted by outdoor air. Helium will be used as the tracer as it is readily available, has low toxicity, can be monitored with portable measurement devices, and can be detected in the laboratory.

The protocol for using a tracer gas is straightforward: simply enrich the atmosphere in the immediate vicinity of the area where the probe intersects the ground surface with the tracer gas and measure a vapor sample from the probe for the presence of high concentrations ($> 10\%$) of the tracer. A plastic pail served to keep the tracer gas in contact with the probe during the testing.

The tracer gas (helium) was released in the enclosure prior to initially purging the sample point, taking care to avoid excessive purging prior to sample collection. Care was also taken to prevent pressure build-up in the enclosure during introduction of the tracer gas. Inspection of the installed sample probe, specifically noting the integrity of the surface seal and the porosity of the soil in which the probe is installed, helped to determine the tracer gas setup.



Helium Tracer Testing Schematic

During the sampling event, the SSDS for the former dry cleaner/current laundromat was operating; however, the SSDS for the adjoining supermarket was not operating and all valves for the SSDS extraction points were in the closed/off position. Following the sampling event, the

SSDS for the supermarket was turned back on (all valves were moved to the open position for the extraction points).

2.3.1.3 Indoor Air Sampling

The testing was conducted during the heating season that spans the time November 15 through March 30.

The indoor air samples were collected in the following manner:

- a. sampling duration reflected the exposure scenario being evaluated without compromising the detection limit or sample collection flow rate (i.e., an 8-hour sampling duration was used);
- b. samples were collected in the vicinity of the sub-slab samples;
- c. sample intakes were placed approximately three (3) to five (5) feet above the floor surface;
- d. personnel avoided lingering in the immediate area of the sampling device while samples were being collected;
- e. sample flow rates conformed to the specifications in the sample collection method and were consistent with the flow rates for concurrent outdoor air and sub-slab samples; and
- f. samples were collected, using conventional sampling methods, in laboratory prepared and supplied six (6) Liter Summa Canisters:

The field sampling team maintained a sample log sheet summarizing the following:

- a. sample identification,
- b. date and time of sample collection,
- c. sampling height,
- d. identity of samplers,
- e. sampling methods and devices,
- f. vacuums of canisters before and after samples collected, and
- g. chain of custody protocols and records used to track samples from sampling point to analysis.

A blind duplicate sample was also collected at indoor air location ASV-2.

2.3.1.4 Outdoor Air Sampling

The outdoor air sample was collected concurrently with the sub-slab and indoor air samples to identify potential outdoor air interferences associated with infiltration of outdoor air into the sampling apparatus while the sub-slab and indoor air samples were collected. To obtain representative samples that meet the data quality objectives, the outdoor air sample was collected in a manner consistent with that for the indoor air samples. The outdoor air sample was situated in the vicinity of the Site and in an upgradient location with respect to wind direction on the day of sample collection. The following actions were taken to document conditions during outdoor air sampling and ultimately to aid in the interpretation of the sample results:

- a. An outdoor plot sketch was drawn that include the testing site, area streets, outdoor air sampling locations, the location of potential interferences (e.g., gasoline stations, factories, lawn movers, etc.), compass orientation (north), and paved areas;
- b. Weather conditions (e.g., precipitation and outdoor temperature) were reported; and
- c. Pertinent observations, such as odors, readings from field instrumentation, and significant activities in the vicinity (e.g., operation of heavy equipment, dry cleaners, and other potential sources of VOCs) were recorded.

2.3.1.5 SVI Samples Laboratory Analyses

The SVI samples were collected into laboratory-supplied 6L Summa Canisters equipped with eight (8) hour flow controllers. The Summa Canisters were delivered to Pace Analytical for analysis of VOCs via US EPA Method TO-15. NYSDEC Category B Deliverables packages were obtained from the laboratory, and the laboratory packages were reviewed by a third-party chemist that provided DUSRs.

2.3.2 Evaluation of Subsurface Investigation Results

2.3.2.1 SVI Investigation Results

Table 1 summarizes the sub-slab soil vapor sample results. The previous sub-slab soil vapor results are also shown on **Table 1**. **Table 2** summarizes the indoor and outdoor air sample results. The previous indoor and outdoor air sample results are also shown on **Table 2**. The laboratory report is provided in **Appendix B**.

Select VOCs were detected in the sub-slab soil vapor samples collected from the former dry cleaner/current laundromat and adjoining supermarket basements. Most of the detected analytes were petroleum products that are not associated with any previous or current practices at the Site. None of the detected analytes were at concentrations that appeared to pose an environmental concern. Regarding previously detected contaminants of concern, vinyl chloride and cis-1,2-dichloroethylene were not detected in any of the February 2022 sub-slab soil vapor samples, TCE was detected in the supermarket sample in February 2022, but at a similar concentration to the previous May 2021 sampling event, TCE was not detected in the former dry cleaner/current laundromat sample in February 2022, chloroform was detected in both samples for February 2022, but at similar concentrations to the May 2021 sampling event, and PCE was detected in both samples for the February 2022; however the concentration for PCE decreased for the former dry cleaner/current laundromat sample since May 2021 and slightly increased for the supermarket since May 2021. As per the NYSDOH Soil Vapor Intrusion Guidance, there are no standards or guidance values for sub-slab soil vapor or soil gas concentrations.

Select VOCs were detected in the indoor and outdoor air samples collected from the former dry cleaner/current laundromat, supermarket, and rear parking lot. Most of the detected analytes were petroleum products that are not associated with any previous or current practices at the Site. None of the detected analytes were at concentrations that appeared to pose an environmental concern. The indoor air results for February 2022 were compared to the NYSDOH Air Guidance Values. PCE was detected in the indoor air sample for the former dry cleaner/current laundromat, but at a concentration well below its NYSDOH Air Guidance Value. PCE was not detected in the indoor air sample for the supermarket or the outdoor air sample. TCE was not detected in any of the indoor or outdoor air samples. This shows a decrease to

below its NYSDOH Air Guidance Value for the indoor air sample for the former dry cleaner/current laundromat from May 2021 to February 2022. Vinyl chloride was not detected in the previous or February 2022 indoor or outdoor air samples. Cis-1,2-dichloroethylene was not detected in the indoor or outdoor air samples for February 2022. Chloroform was detected in previous and February 2022 indoor samples, but at a very low concentrations of 5.8 ug/m³ in the former dry cleaner/current laundromat and 5.1 ug/m³ in the supermarket. Chloroform was not detected in the previous or outdoor air sample for February 2022.

The sub-slab soil vapor and indoor air sample results were compared to the NYSDOH Decision Matrices A, B, and C. Based on the above findings and comparison with the NYSDOH Decision Matrices, the results show that the SSDS for the former dry cleaner/current laundromat is operating properly, and that after 153 days or five (5) months with the SVE system and SSDS for the supermarket turned off, that mitigation is not required for the supermarket.

Based on the above results, EnviroTrac recommends that the SVE system and the SSDS for the supermarket unit remain permanently off.

3.0 CONCLUSIONS AND RECOMMENDATIONS

EnviroTrac conducted an SVI investigation at the Site on February 17, 2022. The SVI investigation included the collection of sub-slab soil vapor and indoor air samples within the basements of the former dry cleaner/current laundromat and supermarket, and an outdoor air sample. Prior to the investigation, the SVE system and SSDS for the supermarket were shut down for 153 days or five (5) months. The SSDS for the former dry cleaner/current laundromat has been operating since September 17, 2021 and was operating during the SVI investigation. The SVI investigation results showed no indoor air concentrations above the available NYSDOH Air Guidance Values. The SVI results were also compared to the NYSDOH Decision Matrices for the adjoining supermarket unit. The comparison showed that mitigation is no longer required for the adjoining supermarket unit. The SVI results for the former dry cleaner/current laundromat showed that the SSDS for this unit is operating properly.

EnviroTrac recommends that the SVE system and SSDS for the supermarket unit be permanently turned off.

Should the NYSDEC approve the above requests, EnviroTrac will provide documentation of the SVE system and supermarket SSDS dismantling and removal and will revise the SMP for the Site. The SSDS for the former dry cleaner/current laundromat and Site cover will be monitored and certified annually, and the groundwater will be monitored annually.

4.0 REFERENCES

New York State Department of Environmental Conservation (May 3, 2010). Final Program Policy DER-10 - Technical Guidance for Site Investigation and Remediation.

Code of Federal Regulations – Title 40: Protection of the Environment 144.26 – Inventory Requirements.

New York State Department of Health (October 2006). Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

FIGURES

TOPOGRAPHIC MAP

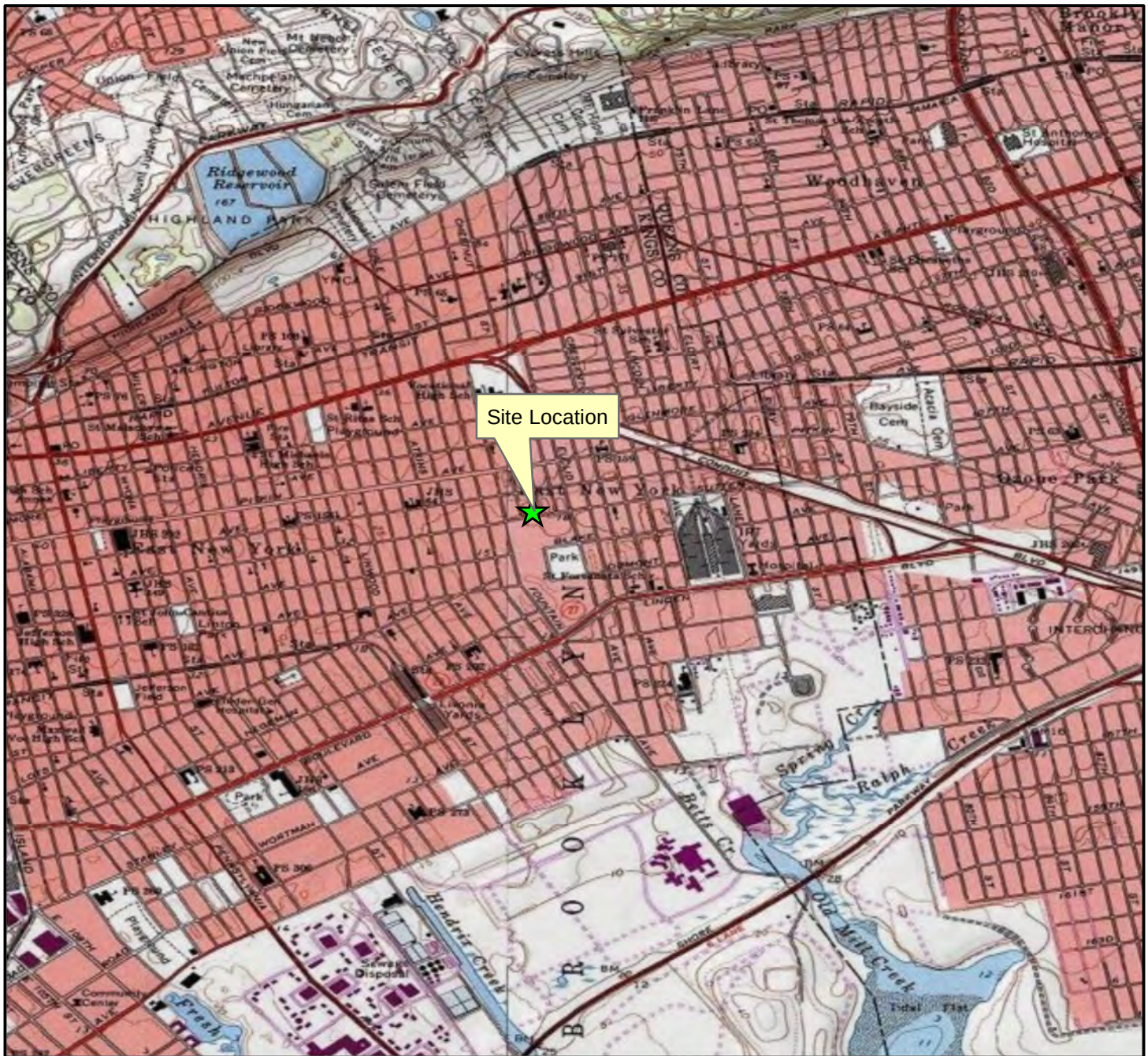


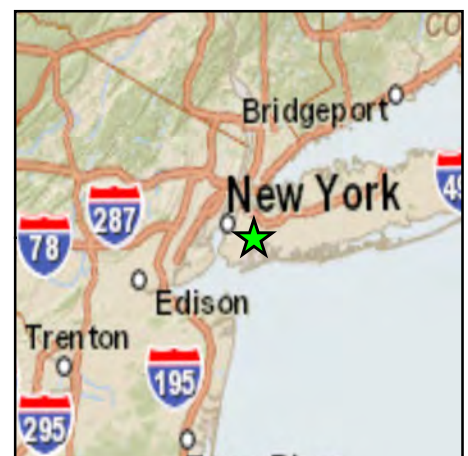
Figure 1
Topographic Map
1199 Sutter Avenue
Brooklyn, NY 11208

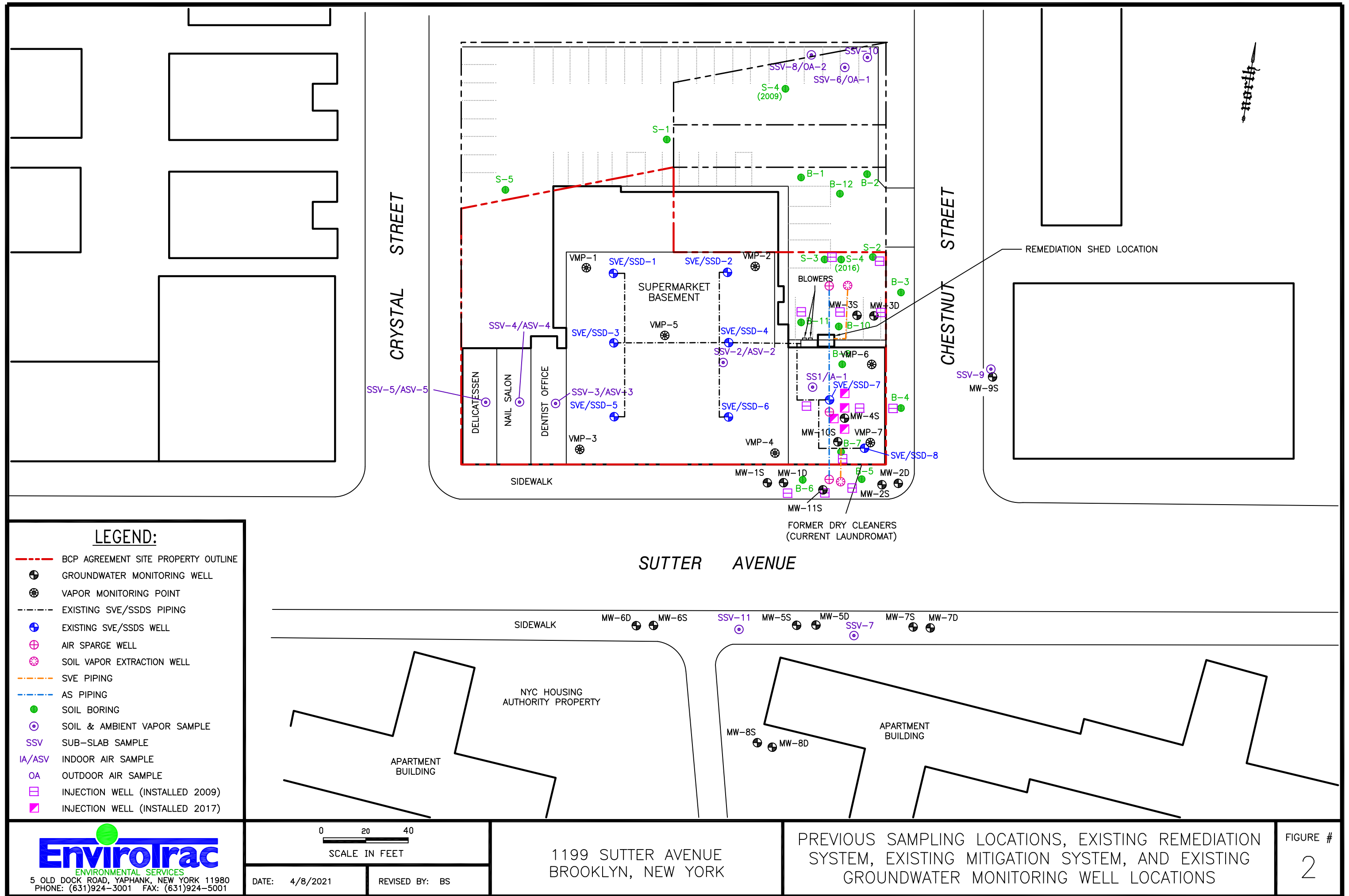
USGS Quadrangle:
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Approx. Elevation:
19 feet

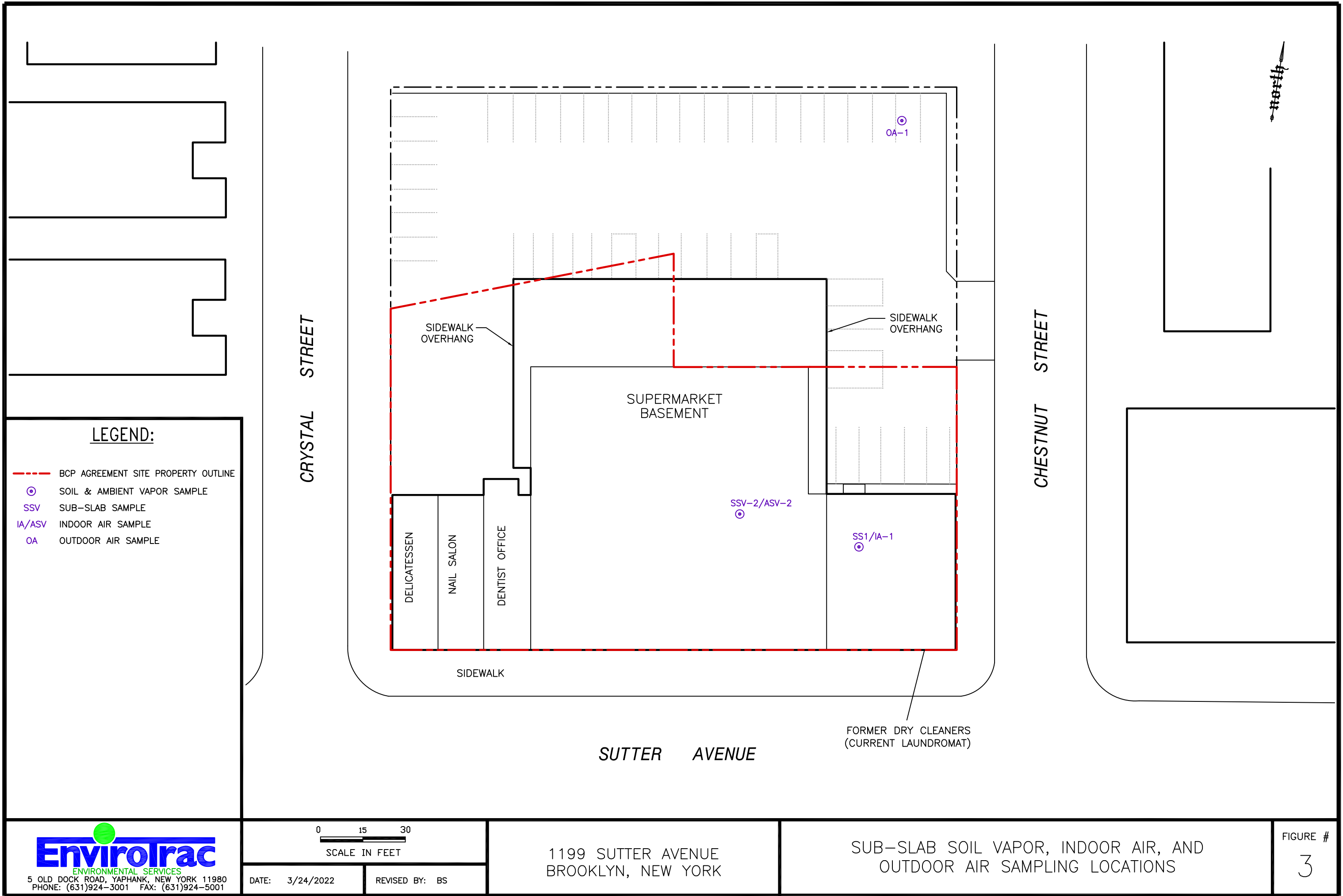


EnviroTrac
Environmental Services

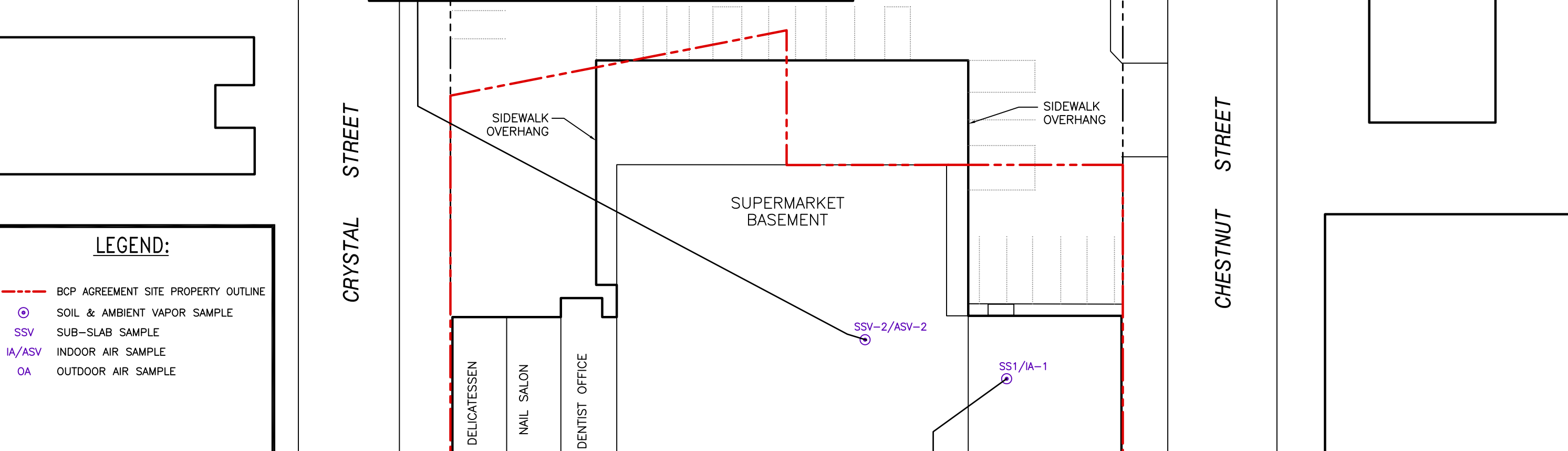
5 Old Dock Road
Yaphank, NY 11980
P: 631-924-3001 F: 631-924-5001







Sample ID:	SSV-2	SSV-2	SSV-2	Parameter:	Sample Designation:	ASV-2	ASV-2	ASV-2	Parameter:	Sample Designation:	OA-1	OA-1
Sample Date:	4/21/14	5/10/21	2/17/22		Sampling Date:	4/21/14	5/10/21	2/17/22		Sampling Date:	5/10/21	2/17/22
Media:	Sub-Slab	Sub-Slab	Sub-Slab		Sample Media:	Indoor Air	Indoor Air	Indoor Air		Sample Media:	Outdoor Air	Outdoor Air
Location:	Supermarket	Supermarket	Supermarket		Location:	Supermarket	Supermarket	Supermarket		Location:	Parking Area, Rear of Former Dry Cleaner	Parking Area, Rear of Former Dry Cleaner
Parameter:					NYSDOH Indoor Air Guidance Value					NYSDOH Indoor Air Guidance Value		
Vinyl Chloride	--	--	--	Vinyl Chloride	NA	--	--	--	Vinyl Chloride	NA	--	--
cis-1,2-Dichloroethene	--	--	--	cis-1,2-Dichloroethene	NA	--	--	--	cis-1,2-Dichloroethene	NA	--	--
Chloroform	222	7.3	5.2	Chloroform	NA	8.74	14.7	5.1	Chloroform	NA	--	--
Trichloroethene	677	2.8	7.4	Trichloroethene	2	--	--	--	Trichloroethene	2	--	--
Tetrachloroethene	20,100	63.5	375	Tetrachloroethene	30	1.89	3.6	--	Tetrachloroethene	30	--	--



LEGEND:

- BCP AGREEMENT SITE PROPERTY OUTLINE
- ⊙ SOIL & AMBIENT VAPOR SAMPLE
- SSV SUB-SLAB SAMPLE
- IA/ASV INDOOR AIR SAMPLE
- OA OUTDOOR AIR SAMPLE

Sample ID:	SS-1	SS-1	SS-1	Parameter:	Sample Designation:	IA-1	IA-1	IA-1	IA-1
Sample Date:	7/20/11	5/10/21	2/17/22		Sampling Date:	7/20/11	3/21/17	5/10/21	2/17/22
Media:	Sub-Slab	Sub-Slab	Sub-Slab		Sample Media:	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Location:	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner		Location:	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner
Parameter:					NYSDOH Indoor Air Guidance Value				
Vinyl Chloride	795	--	--	Vinyl Chloride	NA	--	--	--	--
cis-1,2-Dichloroethene	3,830	--	--	cis-1,2-Dichloroethene	NA	--	--	2.3	--
Chloroform	444	6.9	5.9	Chloroform	NA	38.4	3.21	10.2	5.8
Trichloroethene	9,730	5.4	--	Trichloroethene	2	1.27	--	2.5	--
Tetrachloroethene	428,000	40.1	5.1	Tetrachloroethene	30	68.5	3.60	--	3.3

TABLES

Table 1
Summary of Sub-Slab Soil Vapor Sample Results - July 2011 - February 2022
BCP # 244141
1199 Sutter Avenue, Brooklyn, NY

Sample ID:	SS-1	SS-1	SS-1	SSV-2	SSV-2	SSV-2
Sample Date:	7/20/11	5/10/21	2/17/22	4/21/14	5/10/21	2/17/22
Media:	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
Location:	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Supermarket	Supermarket	Supermarket
Parameter:						
2-Propanol	--	39.6	48.5	--	34.8	77.3
Dichlorodifluoromethane	--	4.1	3.9	--	5.8	4.8
Chloromethane	--	1.5	--	--	--	--
Vinyl Chloride	795	--	--	--	--	--
Ethanol	--	77.8	274	--	178	202
Acetone	--	46.7	27.5	--	147	91.6
Trichlorofluoromethane	--	7.8	6.9	--	19	10.3
Freon 113	3,720	--	--	--	--	--
trans-1,2-Dichloroethene	390	--	--	--	--	--
1,1-Dichloroethane	380	--	--	--	--	--
2-Butanone	--	6.1	8.4	--	22.9	21.6
cis-1,2-Dichloroethene	3,830	--	--	--	--	--
Ethyl Acetate	--	2.8	2.7	--	44.4	--
Chloroform	444	6.9	5.9	222	7.3	5.2
1,2-Dichloroethane	538	--	--	--	--	--
n-Hexane	--	11.1	8.3	--	17.1	3.7
1,1,1-Trichloroethane	4,020	--	--	--	--	--
Benzene	--	6.9	4	--	9.8	2.7
Carbon Disulfide	--	--	--	--	3.7	--
Cyclohexane	--	4.5	5.5	--	10.4	--
Trichloroethene	9,730	5.4	--	677	2.8	7.4
Heptane	--	10.4	6.2	--	15.3	4
Toluene	757	89.6	58.3	40.7	129	37
Tetrachloroethene	428,000	40.1	5.1	20,100	63.5	375
Tetrahydrofuran	--	--	19.2	--	--	23.1
Ethylbenzene	330	11.6	6.6	11	17.7	4.4
p+m Xylenes	--	45.5	26.6	41	67.7	18.2
Styrene	262	2	--	--	2.9	--
o Xylene	--	10.9	--	--	16.9	5.3
4-Ethyltoluene	--	4.3	--	--	5.9	--
1,3,5-Trimethylbenzene	--	--	2.3	--	4.9	1.8
1,2,4-Trimethylbenzene	--	8.2	5.5	16	13.7	3.7

Notes:

Only detected analytes are reported.

All concentrations provided in micrograms per cubic meter (ug/m³)

-- Not Detected Relative to Laboratory Reporting Limit



Table 2
Summary of Indoor Air Sample Results For Units with SSDS - July 2011 - February 2022
BCP # 244141
1199 Sutter Avenue, Brooklyn, NY

Parameter:	Sample Designation:	IA-1	IA-1	IA-1	IA-1	ASV-2	ASV-2	ASV-2	Blind Dupe	OA-1	OA-1
	Sampling Date:	7/20/11	3/21/17	5/10/21	2/17/22	4/21/14	5/10/21	2/17/22	2/17/22	5/10/21	2/17/22
	Sample Media:	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Outdoor Air	Outdoor Air
	Location:	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Former Dry Cleaner	Supermarket	Supermarket	Supermarket	Supermarket	Parking Area, Rear of Former Dry Cleaner	Parking Area, Rear of Former Dry Cleaner
	NYSDOH Air Guidance Value										
2-Propanol	NA	--	--	90.8	45.5	--	616	82	92.6	4.1	--
Propylene	NA	1.91	--	--	43.1	--	--	--	--	--	--
Dichlorodifluoromethane	NA	3.81	2.22	3.2	3.8	6.03	4.6	5.7	6.3	2.7	2
Chloromethane	NA	3.45	1.00	--	--	1.94	27.2	--	--	0.74	--
Vinyl Chloride	NA	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	NA	--	--	--	--	0.173	--	--	--	--	--
Chloroethane	NA	--	--	--	--	0.124	--	--	--	--	--
Ethanol	NA	920	--	84.6	267	--	425	514	588	18.8	17
Acetone	NA	--	7.79	32.3	24.3	--	122	34.6	36.6	16	--
Trichlorofluoromethane	NA	27.8	2.41	3.5	5.6	8.99	14.9	12	14.3	1.8	--
Isopropanol	NA	61.4	--	--	--	--	--	--	--	--	--
Methylene Chloride	60	--	1.15	--	--	--	--	--	--	--	--
Freon 113	NA	--	--	--	--	0.636	--	--	--	--	--
2-Butanone	NA	16.5	1.06	--	13.4	--	16.1	11.4	12.6	--	--
cis-1,2-Dichloroethene	NA	--	--	2.3	--	--	--	--	--	--	--
Ethyl Acetate	NA	8.11	--	--	2.5	--	5.8	4.2	4.2	--	2.2
Chloroform	NA	38.4	3.21	10.2	5.8	8.74	14.7	5.1	5.3	--	--
Tetrahydrofuran	NA	17.5	--	--	40.8	--	14.6	8.1	10.7	--	--
n-Hexane	NA	7.79	--	--	11.6	--	6.9	2.7	3.1	--	--
1,1,1-Trichloroethane	NA	--	--	--	--	--	--	--	--	--	--
Benzene	NA	3.77	1.24	0.81	3.8	1.38	3.7	1.4	1.4	0.94	--
Carbon Tetrachloride	NA	--	--	--	--	0.566	--	--	--	--	--
Cyclohexane	NA	2.11	--	--	9.8	--	4.2	--	--	--	--
Bromodichloromethane	NA	1.67	--	--	--	0.174	--	--	--	--	--
Trichloroethene	2	1.27	--	2.5	--	--	--	--	--	--	--
2,2,4-Trimethylpentane	NA	1.63	--	--	--	--	--	--	--	--	--
Heptane	NA	5.04	--	--	5.9	--	--	1.9	1.8	--	--
Toluene	NA	11.4	3.55	3	40.1	10.9	53.6	10.2	9.2	2	1.4
Tetrachloroethene	30	68.5	3.6	--	3.3	1.89	3.6	--	--	--	--
Ethylbenzene	NA	1.7	--	--	3.5	1.34	11.6	--	--	--	--
p+m Xylenes	NA	6.34	1.84	--	14.8	5.21	48.2	5.5	5	--	--
Styrene	NA	--	--	--	--	0.856	--	--	--	--	--
o Xylene	NA	2.96	--	--	--	2.16	12.9	2.2	2.1	--	--
4-Ethyltoluene	NA	1.9	--	--	--	1.20	5.2	--	--	--	--
1,3,5-Trimethylbenzene	NA	2.9	--	--	1.9	1.23	4.5	--	--	--	--
1,2,4-Trimethylbenzene	NA	8.65	--	--	3.4	4.36	12.6	2.3	2.1	--	--
1,4-Dichlorobenzene	NA	2.84	--	--	--	1.05	--	--	--	--	--

Notes:

All concentrations provided in micrograms per cubic meter (ug/m³)

-- Detected Below the Laboratory Method Detection Limit

NA - Not Applicable/Not Available

IA - Indoor Air

OA - Outdoor Air

NYSDOH - New York State Department of Health

Bolded values indicate an exceedance of the NYSDOH Indoor Air Guidance Values.



APPENDICES

APPENDIX A

NYSDOH Soil Vapor Intrusion – Structure Sampling Building Questionnaire

Soil Vapor Intrusion - Structure Sampling Building Questionnaire

Structure ID: _____

Site No.: BCP Site #C224141 Site Name: 1199 Sutter Ave
Date: 2/17/22 Time: 09:45

Structure Address: 1199 Sutter Ave Brooklyn NYPreparer's Name & Affiliation: Nick Zarcone / EnviroTimeResidential? ☐ Yes ☒ No Owner Occupied? ☐ Yes ☒ No Owner Interviewed? ☐ Yes ☒ NoCommercial? ☒ Yes ☐ No Industrial? ☐ Yes ☒ No Mixed Uses? ☒ Yes ☐ NoIdentify all non-residential use(s): Ky Food, Laundry/Dry cleaner, 24 Deli, Beauty Supply and Car WashOwner Name: AAA Sutter Realty Owner Phone: () - -

Secondary Owner Phone: () - -

Owner Address (if different): 153-157 Seventh Ave Garden City NY

Occupant Name: _____ Occupant Phone: () - -

Secondary Occupant Phone: () - -

Number & Age of All Persons Residing at this Location: N/A

Additional Owner/Occupant Information: _____

Describe Structure (style, number floors, size): 5 Commercial units with basement (Single Story)Approximate Year Built: _____ Is the building Insulated? ☐ Yes ☐ NoLowest level: ☐ Slab-on-grade ☒ Basement ☐ CrawlspaceDescribe Lowest Level (finishing, use, time spent in space): Concrete block walls, Concrete FloorFloor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed: _____Floor Condition: ☐ Good (few or no cracks) ☒ Average (some cracks) ☐ Poor (broken concrete or dirt)Sumps/Drains? ☒ Yes ☐ No Describe: Open Laundry drain to Sewer

Identify other floor penetrations & details: _____

Wall Construction: ☒ Concrete Block ☐ Poured Concrete ☐ Laid-Up StoneIdentify any wall penetrations: SUE/SSDS piping penetrationsIdentify water, moisture, or seepage: location & severity (sump, cracks, stains, etc.): Damp/Moisturefrom LaundryHeating Fuel: ☒ Oil ☐ Gas ☐ Wood ☐ Electric ☐ Other: _____Heating System: ☐ Forced Air ☒ Hot Water ☐ Other: _____Hot Water System: ☐ Combustion ☐ Electric ☒ Boilermate ☐ Other: _____Clothes Dryer: ☐ Electric ☐ Gas Where is dryer vented to? Roof

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.): _____

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to): _____

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

Laundry Detergent & Bleach stored in laundry room Basement

Attached garage? ☐ Yes ☒ No Air fresheners? ☐ Yes ☐ No

New carpet or furniture? ☐ Yes ☒ No What/Where? _____

Recent painting or staining? ☐ Yes ☒ No Where? : _____

Any solvent or chemical-like odors? ☒ Yes ☐ No

Describe: laundry Detergent smell/odor

Last time Dry Cleaned fabrics brought in? _____ What / Where? _____

Do any building occupants use solvents at work? ☐ Yes ☒ No Describe: _____

Any testing for Radon? ☐ Yes ☒ No Results: _____

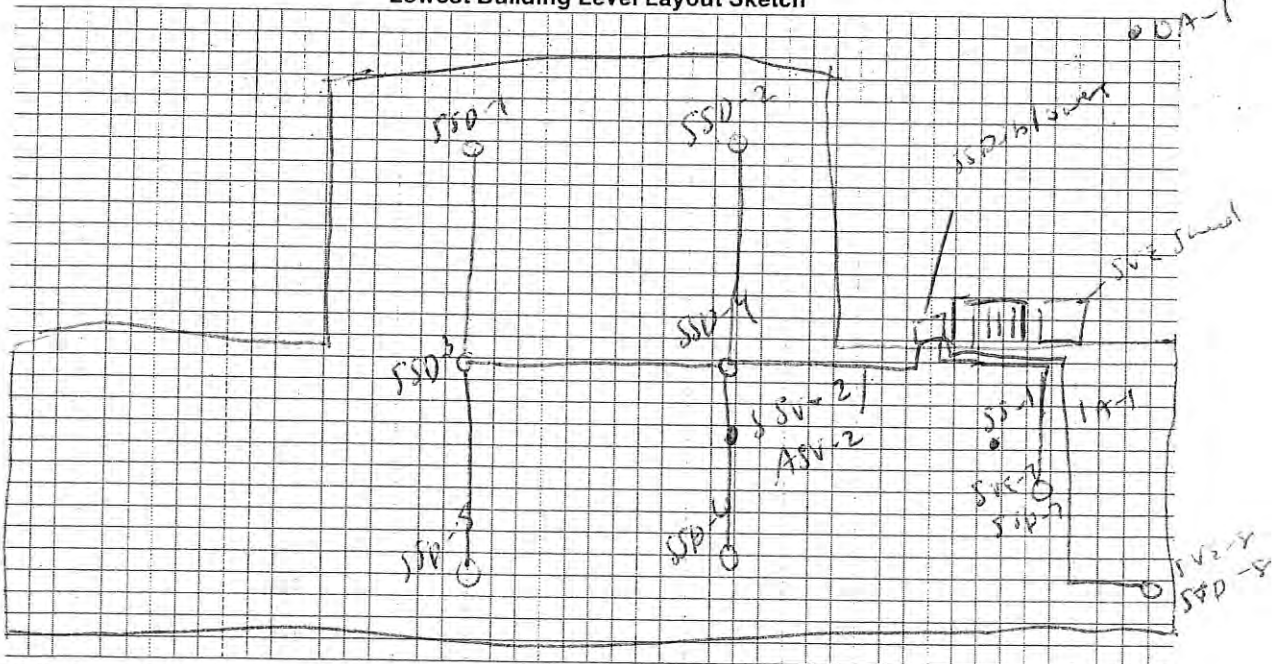
Radon System/Soil Vapor Intrusion Mitigation System present?

☒ Yes ☐ No

If yes, describe below

SVE/ SSDS System

Lowest Building Level Layout Sketch



■ Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.

■ Measure the distance of all sample locations from identifiable features, and include on the layout sketch.

■ Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.

■ Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F Boiler or Furnace
HW Hot Water Heater
FP Fireplaces
WS Wood Stoves
W/D Washer / Dryer
S Sumps
@ Floor Drains

o Other floor or wall penetrations (label appropriately)
xxxxxxx Perimeter Drains (draw inside or outside outer walls as appropriate)
Areas of broken-up concrete
● SS-1 Location & label of sub-slab vapor samples
● IA-1 Location & label of indoor air samples
● OA-1 Location & label of outdoor air samples
● PFET-1 Location and label of any pressure field test holes.

Structure Sampling - Product Inventory

Page ____ of ____

Homeowner Name & Address: 1199 Sutter Ave Brooklyn NY

Date: 2/17/22

Samplers & Company: Nich Zaccaro EnviroTech NY

Structure ID: _____

Site Number & Name: _____

Phone Number: _____

Make & Model of PID: Tiger

Date of PID Calibration: 2/17/22

Identify any Changes from Original Building Questionnaire : _____

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
Laundry mat/Dry cleaner Laundry Detergent		/	0.0	Basement
Tide Pods				
Clorox Bleach				
Fabric Softener				
Key Food				
Dry Foods				
Drinks				
Paper Goods				
Cleaners				

APPENDIX B

Laboratory Report

March 08, 2022

Mr. Ed Russo
Envirotrac
5 Old Dock Road
Yaphank, NY 11980

RE: Project: 1199 SUTTER AVENUE 2/17
Pace Project No.: 70204938

Dear Mr. Russo:

Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sophia Sparkes
sophia.sparkes@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Ms. Crystal Bakewicz, Envirotrac
Mike Rose, Envirotrac
Tracy Wall, Envirotrac Ltd.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70204938001	SS1	TO-15	HMH	61	PASI-M
70204938002	IA-1	TO-15	HMH	61	PASI-M
70204938003	SSV-2	TO-15	HMH	61	PASI-M
70204938004	ASV-2	TO-15	HMH	61	PASI-M
70204938005	OA-1	TO-15	HMH	61	PASI-M
70204938006	BLIND DUPE	TO-15	HMH	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Method: TO-15

Description: TO15 MSV AIR

Client: EnviroTrac Ltd.

Date: March 08, 2022

General Information:

6 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: SS1		Lab ID: 70204938001		Collected: 02/17/22 15:15		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Acetone	27.5	ug/m3	10.8	1.79		03/04/22 17:58	67-64-1		
Benzene	4.0	ug/m3	0.58	1.79		03/04/22 17:58	71-43-2		
Benzyl chloride	<4.7	ug/m3	4.7	1.79		03/04/22 17:58	100-44-7		
Bromodichloromethane	<2.4	ug/m3	2.4	1.79		03/04/22 17:58	75-27-4		
Bromoform	<9.4	ug/m3	9.4	1.79		03/04/22 17:58	75-25-2		
Bromomethane	<1.4	ug/m3	1.4	1.79		03/04/22 17:58	74-83-9		
1,3-Butadiene	<0.81	ug/m3	0.81	1.79		03/04/22 17:58	106-99-0		
2-Butanone (MEK)	8.4	ug/m3	5.4	1.79		03/04/22 17:58	78-93-3		
Carbon disulfide	<1.1	ug/m3	1.1	1.79		03/04/22 17:58	75-15-0		
Carbon tetrachloride	<2.3	ug/m3	2.3	1.79		03/04/22 17:58	56-23-5		
Chlorobenzene	<1.7	ug/m3	1.7	1.79		03/04/22 17:58	108-90-7		
Chloroethane	<0.96	ug/m3	0.96	1.79		03/04/22 17:58	75-00-3		
Chloroform	5.9	ug/m3	0.89	1.79		03/04/22 17:58	67-66-3		
Chloromethane	<0.75	ug/m3	0.75	1.79		03/04/22 17:58	74-87-3		
Cyclohexane	5.5	ug/m3	3.1	1.79		03/04/22 17:58	110-82-7		
Dibromochloromethane	<3.1	ug/m3	3.1	1.79		03/04/22 17:58	124-48-1		
1,2-Dibromoethane (EDB)	<1.4	ug/m3	1.4	1.79		03/04/22 17:58	106-93-4		
1,2-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 17:58	95-50-1		
1,3-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 17:58	541-73-1		
1,4-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 17:58	106-46-7		
Dichlorodifluoromethane	3.9	ug/m3	1.8	1.79		03/04/22 17:58	75-71-8		
1,1-Dichloroethane	<1.5	ug/m3	1.5	1.79		03/04/22 17:58	75-34-3		
1,2-Dichloroethane	<1.5	ug/m3	1.5	1.79		03/04/22 17:58	107-06-2		
1,1-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 17:58	75-35-4		
cis-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 17:58	156-59-2		
trans-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 17:58	156-60-5		
1,2-Dichloropropane	<1.7	ug/m3	1.7	1.79		03/04/22 17:58	78-87-5		
cis-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 17:58	10061-01-5		
trans-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 17:58	10061-02-6		
Dichlorotetrafluoroethane	<2.5	ug/m3	2.5	1.79		03/04/22 17:58	76-14-2		
Ethanol	274	ug/m3	3.4	1.79		03/04/22 17:58	64-17-5		
Ethyl acetate	2.7	ug/m3	1.3	1.79		03/04/22 17:58	141-78-6		
Ethylbenzene	6.6	ug/m3	1.6	1.79		03/04/22 17:58	100-41-4		
4-Ethyltoluene	<4.5	ug/m3	4.5	1.79		03/04/22 17:58	622-96-8		
n-Heptane	6.2	ug/m3	1.5	1.79		03/04/22 17:58	142-82-5		
Hexachloro-1,3-butadiene	<9.7	ug/m3	9.7	1.79		03/04/22 17:58	87-68-3		
n-Hexane	8.3	ug/m3	1.3	1.79		03/04/22 17:58	110-54-3		
2-Hexanone	<7.4	ug/m3	7.4	1.79		03/04/22 17:58	591-78-6		
Methylene Chloride	<6.3	ug/m3	6.3	1.79		03/04/22 17:58	75-09-2		
4-Methyl-2-pentanone (MIBK)	<7.4	ug/m3	7.4	1.79		03/04/22 17:58	108-10-1		
Methyl-tert-butyl ether	<6.6	ug/m3	6.6	1.79		03/04/22 17:58	1634-04-4		
Naphthalene	<4.8	ug/m3	4.8	1.79		03/04/22 17:58	91-20-3		
2-Propanol	48.5	ug/m3	4.5	1.79		03/04/22 17:58	67-63-0		
Propylene	<1.6	ug/m3	1.6	1.79		03/04/22 17:58	115-07-1		
Styrene	<3.9	ug/m3	3.9	1.79		03/04/22 17:58	100-42-5		
1,1,2,2-Tetrachloroethane	<2.5	ug/m3	2.5	1.79		03/04/22 17:58	79-34-5		

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: SS1	Lab ID: 70204938001		Collected: 02/17/22 15:15		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
	Pace Analytical Services - Minneapolis							
Tetrachloroethene	5.1	ug/m3	1.2	1.79		03/04/22 17:58	127-18-4	
Tetrahydrofuran	19.2	ug/m3	1.1	1.79		03/04/22 17:58	109-99-9	
Toluene	58.3	ug/m3	1.4	1.79		03/04/22 17:58	108-88-3	
1,2,4-Trichlorobenzene	<13.5	ug/m3	13.5	1.79		03/04/22 17:58	120-82-1	
1,1,1-Trichloroethane	<2.0	ug/m3	2.0	1.79		03/04/22 17:58	71-55-6	
1,1,2-Trichloroethane	<0.99	ug/m3	0.99	1.79		03/04/22 17:58	79-00-5	
Trichloroethene	<0.98	ug/m3	0.98	1.79		03/04/22 17:58	79-01-6	
Trichlorofluoromethane	6.9	ug/m3	2.0	1.79		03/04/22 17:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	<2.8	ug/m3	2.8	1.79		03/04/22 17:58	76-13-1	
1,2,4-Trimethylbenzene	5.5	ug/m3	1.8	1.79		03/04/22 17:58	95-63-6	
1,3,5-Trimethylbenzene	2.3	ug/m3	1.8	1.79		03/04/22 17:58	108-67-8	
Vinyl acetate	<1.3	ug/m3	1.3	1.79		03/04/22 17:58	108-05-4	
Vinyl chloride	<0.47	ug/m3	0.47	1.79		03/04/22 17:58	75-01-4	
m&p-Xylene	26.6	ug/m3	3.2	1.79		03/04/22 17:58	179601-23-1	
o-Xylene	<1.6	ug/m3	1.6	1.79		03/04/22 17:58	95-47-6	

Sample: IA-1		Lab ID: 70204938002		Collected: 02/17/22 15:16		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Acetone	24.3	ug/m3	11.1	1.83		03/04/22 18:30	67-64-1		
Benzene	3.8	ug/m3	0.59	1.83		03/04/22 18:30	71-43-2		
Benzyl chloride	<4.8	ug/m3	4.8	1.83		03/04/22 18:30	100-44-7		
Bromodichloromethane	<2.5	ug/m3	2.5	1.83		03/04/22 18:30	75-27-4		
Bromoform	<9.6	ug/m3	9.6	1.83		03/04/22 18:30	75-25-2		
Bromomethane	<1.4	ug/m3	1.4	1.83		03/04/22 18:30	74-83-9		
1,3-Butadiene	<0.82	ug/m3	0.82	1.83		03/04/22 18:30	106-99-0		
2-Butanone (MEK)	13.4	ug/m3	5.5	1.83		03/04/22 18:30	78-93-3		
Carbon disulfide	<1.2	ug/m3	1.2	1.83		03/04/22 18:30	75-15-0		
Carbon tetrachloride	<2.3	ug/m3	2.3	1.83		03/04/22 18:30	56-23-5		
Chlorobenzene	<1.7	ug/m3	1.7	1.83		03/04/22 18:30	108-90-7		
Chloroethane	<0.98	ug/m3	0.98	1.83		03/04/22 18:30	75-00-3		
Chloroform	5.8	ug/m3	0.91	1.83		03/04/22 18:30	67-66-3		
Chloromethane	<0.77	ug/m3	0.77	1.83		03/04/22 18:30	74-87-3		
Cyclohexane	9.8	ug/m3	3.2	1.83		03/04/22 18:30	110-82-7		
Dibromochloromethane	<3.2	ug/m3	3.2	1.83		03/04/22 18:30	124-48-1		
1,2-Dibromoethane (EDB)	<1.4	ug/m3	1.4	1.83		03/04/22 18:30	106-93-4		
1,2-Dichlorobenzene	<5.6	ug/m3	5.6	1.83		03/04/22 18:30	95-50-1		
1,3-Dichlorobenzene	<5.6	ug/m3	5.6	1.83		03/04/22 18:30	541-73-1		
1,4-Dichlorobenzene	<5.6	ug/m3	5.6	1.83		03/04/22 18:30	106-46-7		
Dichlorodifluoromethane	3.8	ug/m3	1.8	1.83		03/04/22 18:30	75-71-8		
1,1-Dichloroethane	<1.5	ug/m3	1.5	1.83		03/04/22 18:30	75-34-3		
1,2-Dichloroethane	<1.5	ug/m3	1.5	1.83		03/04/22 18:30	107-06-2		

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: IA-1		Lab ID: 70204938002		Collected: 02/17/22 15:16		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
1,1-Dichloroethene	<1.5	ug/m3	1.5	1.83		03/04/22 18:30	75-35-4		
cis-1,2-Dichloroethene	<1.5	ug/m3	1.5	1.83		03/04/22 18:30	156-59-2		
trans-1,2-Dichloroethene	<1.5	ug/m3	1.5	1.83		03/04/22 18:30	156-60-5		
1,2-Dichloropropane	<1.7	ug/m3	1.7	1.83		03/04/22 18:30	78-87-5		
cis-1,3-Dichloropropene	<4.2	ug/m3	4.2	1.83		03/04/22 18:30	10061-01-5		
trans-1,3-Dichloropropene	<4.2	ug/m3	4.2	1.83		03/04/22 18:30	10061-02-6		
Dichlorotetrafluoroethane	<2.6	ug/m3	2.6	1.83		03/04/22 18:30	76-14-2		
Ethanol	267	ug/m3	3.5	1.83		03/04/22 18:30	64-17-5		
Ethyl acetate	2.5	ug/m3	1.3	1.83		03/04/22 18:30	141-78-6		
Ethylbenzene	3.5	ug/m3	1.6	1.83		03/04/22 18:30	100-41-4		
4-Ethyltoluene	<4.6	ug/m3	4.6	1.83		03/04/22 18:30	622-96-8		
n-Heptane	5.9	ug/m3	1.5	1.83		03/04/22 18:30	142-82-5		
Hexachloro-1,3-butadiene	<9.9	ug/m3	9.9	1.83		03/04/22 18:30	87-68-3		
n-Hexane	11.6	ug/m3	1.3	1.83		03/04/22 18:30	110-54-3		
2-Hexanone	<7.6	ug/m3	7.6	1.83		03/04/22 18:30	591-78-6		
Methylene Chloride	<6.5	ug/m3	6.5	1.83		03/04/22 18:30	75-09-2		
4-Methyl-2-pentanone (MIBK)	<7.6	ug/m3	7.6	1.83		03/04/22 18:30	108-10-1		
Methyl-tert-butyl ether	<6.7	ug/m3	6.7	1.83		03/04/22 18:30	1634-04-4		
Naphthalene	<4.9	ug/m3	4.9	1.83		03/04/22 18:30	91-20-3		
2-Propanol	45.5	ug/m3	4.6	1.83		03/04/22 18:30	67-63-0		
Propylene	43.1	ug/m3	1.6	1.83		03/04/22 18:30	115-07-1		
Styrene	<4.0	ug/m3	4.0	1.83		03/04/22 18:30	100-42-5		
1,1,2,2-Tetrachloroethane	<2.6	ug/m3	2.6	1.83		03/04/22 18:30	79-34-5		
Tetrachloroethene	3.3	ug/m3	1.3	1.83		03/04/22 18:30	127-18-4		
Tetrahydrofuran	40.8	ug/m3	1.1	1.83		03/04/22 18:30	109-99-9		
Toluene	40.1	ug/m3	1.4	1.83		03/04/22 18:30	108-88-3		
1,2,4-Trichlorobenzene	<13.8	ug/m3	13.8	1.83		03/04/22 18:30	120-82-1		
1,1,1-Trichloroethane	<2.0	ug/m3	2.0	1.83		03/04/22 18:30	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/m3	1.0	1.83		03/04/22 18:30	79-00-5		
Trichloroethene	<1.0	ug/m3	1.0	1.83		03/04/22 18:30	79-01-6		
Trichlorofluoromethane	5.6	ug/m3	2.1	1.83		03/04/22 18:30	75-69-4		
1,1,2-Trichlorotrifluoroethane	<2.9	ug/m3	2.9	1.83		03/04/22 18:30	76-13-1		
1,2,4-Trimethylbenzene	3.4	ug/m3	1.8	1.83		03/04/22 18:30	95-63-6		
1,3,5-Trimethylbenzene	1.9	ug/m3	1.8	1.83		03/04/22 18:30	108-67-8		
Vinyl acetate	<1.3	ug/m3	1.3	1.83		03/04/22 18:30	108-05-4		
Vinyl chloride	<0.48	ug/m3	0.48	1.83		03/04/22 18:30	75-01-4		
m&p-Xylene	14.8	ug/m3	3.2	1.83		03/04/22 18:30	179601-23-1		
o-Xylene	<1.6	ug/m3	1.6	1.83		03/04/22 18:30	95-47-6		

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: SSV-2		Lab ID: 70204938003		Collected: 02/17/22 15:03		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Acetone	91.6	ug/m3	10.6	1.75		03/04/22 19:01	67-64-1		
Benzene	2.7	ug/m3	0.57	1.75		03/04/22 19:01	71-43-2		
Benzyl chloride	<4.6	ug/m3	4.6	1.75		03/04/22 19:01	100-44-7		
Bromodichloromethane	<2.4	ug/m3	2.4	1.75		03/04/22 19:01	75-27-4		
Bromoform	<9.2	ug/m3	9.2	1.75		03/04/22 19:01	75-25-2		
Bromomethane	<1.4	ug/m3	1.4	1.75		03/04/22 19:01	74-83-9		
1,3-Butadiene	<0.79	ug/m3	0.79	1.75		03/04/22 19:01	106-99-0		
2-Butanone (MEK)	21.6	ug/m3	5.2	1.75		03/04/22 19:01	78-93-3		
Carbon disulfide	<1.1	ug/m3	1.1	1.75		03/04/22 19:01	75-15-0		
Carbon tetrachloride	<2.2	ug/m3	2.2	1.75		03/04/22 19:01	56-23-5		
Chlorobenzene	<1.6	ug/m3	1.6	1.75		03/04/22 19:01	108-90-7		
Chloroethane	<0.94	ug/m3	0.94	1.75		03/04/22 19:01	75-00-3		
Chloroform	5.2	ug/m3	0.87	1.75		03/04/22 19:01	67-66-3		
Chloromethane	<0.74	ug/m3	0.74	1.75		03/04/22 19:01	74-87-3		
Cyclohexane	<3.1	ug/m3	3.1	1.75		03/04/22 19:01	110-82-7		
Dibromochloromethane	<3.0	ug/m3	3.0	1.75		03/04/22 19:01	124-48-1		
1,2-Dibromoethane (EDB)	<1.4	ug/m3	1.4	1.75		03/04/22 19:01	106-93-4		
1,2-Dichlorobenzene	<5.4	ug/m3	5.4	1.75		03/04/22 19:01	95-50-1		
1,3-Dichlorobenzene	<5.4	ug/m3	5.4	1.75		03/04/22 19:01	541-73-1		
1,4-Dichlorobenzene	<5.4	ug/m3	5.4	1.75		03/04/22 19:01	106-46-7		
Dichlorodifluoromethane	4.8	ug/m3	1.8	1.75		03/04/22 19:01	75-71-8		
1,1-Dichloroethane	<1.4	ug/m3	1.4	1.75		03/04/22 19:01	75-34-3		
1,2-Dichloroethane	<1.4	ug/m3	1.4	1.75		03/04/22 19:01	107-06-2		
1,1-Dichloroethene	<1.4	ug/m3	1.4	1.75		03/04/22 19:01	75-35-4		
cis-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.75		03/04/22 19:01	156-59-2		
trans-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.75		03/04/22 19:01	156-60-5		
1,2-Dichloropropane	<1.6	ug/m3	1.6	1.75		03/04/22 19:01	78-87-5		
cis-1,3-Dichloropropene	<4.0	ug/m3	4.0	1.75		03/04/22 19:01	10061-01-5		
trans-1,3-Dichloropropene	<4.0	ug/m3	4.0	1.75		03/04/22 19:01	10061-02-6		
Dichlorotetrafluoroethane	<2.5	ug/m3	2.5	1.75		03/04/22 19:01	76-14-2		
Ethanol	202	ug/m3	3.4	1.75		03/04/22 19:01	64-17-5		
Ethyl acetate	<1.3	ug/m3	1.3	1.75		03/04/22 19:01	141-78-6		
Ethylbenzene	4.4	ug/m3	1.5	1.75		03/04/22 19:01	100-41-4		
4-Ethyltoluene	<4.4	ug/m3	4.4	1.75		03/04/22 19:01	622-96-8		
n-Heptane	4.0	ug/m3	1.5	1.75		03/04/22 19:01	142-82-5		
Hexachloro-1,3-butadiene	<9.5	ug/m3	9.5	1.75		03/04/22 19:01	87-68-3		
n-Hexane	3.7	ug/m3	1.3	1.75		03/04/22 19:01	110-54-3		
2-Hexanone	<7.3	ug/m3	7.3	1.75		03/04/22 19:01	591-78-6		
Methylene Chloride	<6.2	ug/m3	6.2	1.75		03/04/22 19:01	75-09-2		
4-Methyl-2-pentanone (MIBK)	<7.3	ug/m3	7.3	1.75		03/04/22 19:01	108-10-1		
Methyl-tert-butyl ether	<6.4	ug/m3	6.4	1.75		03/04/22 19:01	1634-04-4		
Naphthalene	<4.7	ug/m3	4.7	1.75		03/04/22 19:01	91-20-3		
2-Propanol	77.3	ug/m3	4.4	1.75		03/04/22 19:01	67-63-0		
Propylene	<1.5	ug/m3	1.5	1.75		03/04/22 19:01	115-07-1		
Styrene	<3.8	ug/m3	3.8	1.75		03/04/22 19:01	100-42-5		
1,1,2,2-Tetrachloroethane	<2.4	ug/m3	2.4	1.75		03/04/22 19:01	79-34-5		

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: SSV-2	Lab ID: 70204938003		Collected: 02/17/22 15:03		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
	Pace Analytical Services - Minneapolis							
Tetrachloroethene	375	ug/m3	1.2	1.75		03/04/22 19:01	127-18-4	
Tetrahydrofuran	23.1	ug/m3	1.0	1.75		03/04/22 19:01	109-99-9	
Toluene	37.0	ug/m3	1.3	1.75		03/04/22 19:01	108-88-3	
1,2,4-Trichlorobenzene	<13.2	ug/m3	13.2	1.75		03/04/22 19:01	120-82-1	
1,1,1-Trichloroethane	<1.9	ug/m3	1.9	1.75		03/04/22 19:01	71-55-6	
1,1,2-Trichloroethane	<0.97	ug/m3	0.97	1.75		03/04/22 19:01	79-00-5	
Trichloroethene	7.4	ug/m3	0.96	1.75		03/04/22 19:01	79-01-6	
Trichlorofluoromethane	10.3	ug/m3	2.0	1.75		03/04/22 19:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	<2.7	ug/m3	2.7	1.75		03/04/22 19:01	76-13-1	
1,2,4-Trimethylbenzene	3.7	ug/m3	1.7	1.75		03/04/22 19:01	95-63-6	
1,3,5-Trimethylbenzene	1.8	ug/m3	1.7	1.75		03/04/22 19:01	108-67-8	
Vinyl acetate	<1.3	ug/m3	1.3	1.75		03/04/22 19:01	108-05-4	
Vinyl chloride	<0.46	ug/m3	0.46	1.75		03/04/22 19:01	75-01-4	
m&p-Xylene	18.2	ug/m3	3.1	1.75		03/04/22 19:01	179601-23-1	
o-Xylene	5.3	ug/m3	1.5	1.75		03/04/22 19:01	95-47-6	

Sample: ASV-2		Lab ID: 70204938004		Collected: 02/17/22 15:04		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Acetone	34.6	ug/m3	10.8	1.79		03/04/22 19:32	67-64-1		
Benzene	1.4	ug/m3	0.58	1.79		03/04/22 19:32	71-43-2		
Benzyl chloride	<4.7	ug/m3	4.7	1.79		03/04/22 19:32	100-44-7		
Bromodichloromethane	<2.4	ug/m3	2.4	1.79		03/04/22 19:32	75-27-4		
Bromoform	<9.4	ug/m3	9.4	1.79		03/04/22 19:32	75-25-2		
Bromomethane	<1.4	ug/m3	1.4	1.79		03/04/22 19:32	74-83-9		
1,3-Butadiene	<0.81	ug/m3	0.81	1.79		03/04/22 19:32	106-99-0		
2-Butanone (MEK)	11.4	ug/m3	5.4	1.79		03/04/22 19:32	78-93-3		
Carbon disulfide	<1.1	ug/m3	1.1	1.79		03/04/22 19:32	75-15-0		
Carbon tetrachloride	<2.3	ug/m3	2.3	1.79		03/04/22 19:32	56-23-5		
Chlorobenzene	<1.7	ug/m3	1.7	1.79		03/04/22 19:32	108-90-7		
Chloroethane	<0.96	ug/m3	0.96	1.79		03/04/22 19:32	75-00-3		
Chloroform	5.1	ug/m3	0.89	1.79		03/04/22 19:32	67-66-3		
Chloromethane	<0.75	ug/m3	0.75	1.79		03/04/22 19:32	74-87-3		
Cyclohexane	<3.1	ug/m3	3.1	1.79		03/04/22 19:32	110-82-7		
Dibromochloromethane	<3.1	ug/m3	3.1	1.79		03/04/22 19:32	124-48-1		
1,2-Dibromoethane (EDB)	<1.4	ug/m3	1.4	1.79		03/04/22 19:32	106-93-4		
1,2-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 19:32	95-50-1		
1,3-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 19:32	541-73-1		
1,4-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 19:32	106-46-7		
Dichlorodifluoromethane	5.7	ug/m3	1.8	1.79		03/04/22 19:32	75-71-8		
1,1-Dichloroethane	<1.5	ug/m3	1.5	1.79		03/04/22 19:32	75-34-3		
1,2-Dichloroethane	<1.5	ug/m3	1.5	1.79		03/04/22 19:32	107-06-2		

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: ASV-2		Lab ID: 70204938004		Collected: 02/17/22 15:04		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
		Pace Analytical Services - Minneapolis							
1,1-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 19:32	75-35-4		
cis-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 19:32	156-59-2		
trans-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 19:32	156-60-5		
1,2-Dichloropropane	<1.7	ug/m3	1.7	1.79		03/04/22 19:32	78-87-5		
cis-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 19:32	10061-01-5		
trans-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 19:32	10061-02-6		
Dichlorotetrafluoroethane	<2.5	ug/m3	2.5	1.79		03/04/22 19:32	76-14-2		
Ethanol	514	ug/m3	3.4	1.79		03/04/22 19:32	64-17-5		
Ethyl acetate	4.2	ug/m3	1.3	1.79		03/04/22 19:32	141-78-6		
Ethylbenzene	<1.6	ug/m3	1.6	1.79		03/04/22 19:32	100-41-4		
4-Ethyltoluene	<4.5	ug/m3	4.5	1.79		03/04/22 19:32	622-96-8		
n-Heptane	1.9	ug/m3	1.5	1.79		03/04/22 19:32	142-82-5		
Hexachloro-1,3-butadiene	<9.7	ug/m3	9.7	1.79		03/04/22 19:32	87-68-3		
n-Hexane	2.7	ug/m3	1.3	1.79		03/04/22 19:32	110-54-3		
2-Hexanone	<7.4	ug/m3	7.4	1.79		03/04/22 19:32	591-78-6		
Methylene Chloride	<6.3	ug/m3	6.3	1.79		03/04/22 19:32	75-09-2		
4-Methyl-2-pentanone (MIBK)	<7.4	ug/m3	7.4	1.79		03/04/22 19:32	108-10-1		
Methyl-tert-butyl ether	<6.6	ug/m3	6.6	1.79		03/04/22 19:32	1634-04-4		
Naphthalene	<4.8	ug/m3	4.8	1.79		03/04/22 19:32	91-20-3		
2-Propanol	82.0	ug/m3	4.5	1.79		03/04/22 19:32	67-63-0		
Propylene	<1.6	ug/m3	1.6	1.79		03/04/22 19:32	115-07-1		
Styrene	<3.9	ug/m3	3.9	1.79		03/04/22 19:32	100-42-5		
1,1,2,2-Tetrachloroethane	<2.5	ug/m3	2.5	1.79		03/04/22 19:32	79-34-5		
Tetrachloroethene	<1.2	ug/m3	1.2	1.79		03/04/22 19:32	127-18-4		
Tetrahydrofuran	8.1	ug/m3	1.1	1.79		03/04/22 19:32	109-99-9		
Toluene	10.2	ug/m3	1.4	1.79		03/04/22 19:32	108-88-3		
1,2,4-Trichlorobenzene	<13.5	ug/m3	13.5	1.79		03/04/22 19:32	120-82-1		
1,1,1-Trichloroethane	<2.0	ug/m3	2.0	1.79		03/04/22 19:32	71-55-6		
1,1,2-Trichloroethane	<0.99	ug/m3	0.99	1.79		03/04/22 19:32	79-00-5		
Trichloroethene	<0.98	ug/m3	0.98	1.79		03/04/22 19:32	79-01-6		
Trichlorofluoromethane	12.0	ug/m3	2.0	1.79		03/04/22 19:32	75-69-4		
1,1,2-Trichlorotrifluoroethane	<2.8	ug/m3	2.8	1.79		03/04/22 19:32	76-13-1		
1,2,4-Trimethylbenzene	2.3	ug/m3	1.8	1.79		03/04/22 19:32	95-63-6		
1,3,5-Trimethylbenzene	<1.8	ug/m3	1.8	1.79		03/04/22 19:32	108-67-8		
Vinyl acetate	<1.3	ug/m3	1.3	1.79		03/04/22 19:32	108-05-4		
Vinyl chloride	<0.47	ug/m3	0.47	1.79		03/04/22 19:32	75-01-4		
m&p-Xylene	5.5	ug/m3	3.2	1.79		03/04/22 19:32	179601-23-1		
o-Xylene	2.2	ug/m3	1.6	1.79		03/04/22 19:32	95-47-6		

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: OA-1		Lab ID: 70204938005		Collected: 02/17/22 15:36		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Acetone	<10.8	ug/m3	10.8	1.79		03/04/22 20:03	67-64-1		
Benzene	<0.58	ug/m3	0.58	1.79		03/04/22 20:03	71-43-2		
Benzyl chloride	<4.7	ug/m3	4.7	1.79		03/04/22 20:03	100-44-7		
Bromodichloromethane	<2.4	ug/m3	2.4	1.79		03/04/22 20:03	75-27-4		
Bromoform	<9.4	ug/m3	9.4	1.79		03/04/22 20:03	75-25-2		
Bromomethane	<1.4	ug/m3	1.4	1.79		03/04/22 20:03	74-83-9		
1,3-Butadiene	<0.81	ug/m3	0.81	1.79		03/04/22 20:03	106-99-0		
2-Butanone (MEK)	<5.4	ug/m3	5.4	1.79		03/04/22 20:03	78-93-3		
Carbon disulfide	<1.1	ug/m3	1.1	1.79		03/04/22 20:03	75-15-0		
Carbon tetrachloride	<2.3	ug/m3	2.3	1.79		03/04/22 20:03	56-23-5		
Chlorobenzene	<1.7	ug/m3	1.7	1.79		03/04/22 20:03	108-90-7		
Chloroethane	<0.96	ug/m3	0.96	1.79		03/04/22 20:03	75-00-3		
Chloroform	<0.89	ug/m3	0.89	1.79		03/04/22 20:03	67-66-3		
Chloromethane	<0.75	ug/m3	0.75	1.79		03/04/22 20:03	74-87-3		
Cyclohexane	<3.1	ug/m3	3.1	1.79		03/04/22 20:03	110-82-7		
Dibromochloromethane	<3.1	ug/m3	3.1	1.79		03/04/22 20:03	124-48-1		
1,2-Dibromoethane (EDB)	<1.4	ug/m3	1.4	1.79		03/04/22 20:03	106-93-4		
1,2-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 20:03	95-50-1		
1,3-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 20:03	541-73-1		
1,4-Dichlorobenzene	<5.5	ug/m3	5.5	1.79		03/04/22 20:03	106-46-7		
Dichlorodifluoromethane	2.0	ug/m3	1.8	1.79		03/04/22 20:03	75-71-8		
1,1-Dichloroethane	<1.5	ug/m3	1.5	1.79		03/04/22 20:03	75-34-3		
1,2-Dichloroethane	<1.5	ug/m3	1.5	1.79		03/04/22 20:03	107-06-2		
1,1-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 20:03	75-35-4		
cis-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 20:03	156-59-2		
trans-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 20:03	156-60-5		
1,2-Dichloropropane	<1.7	ug/m3	1.7	1.79		03/04/22 20:03	78-87-5		
cis-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 20:03	10061-01-5		
trans-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 20:03	10061-02-6		
Dichlorotetrafluoroethane	<2.5	ug/m3	2.5	1.79		03/04/22 20:03	76-14-2		
Ethanol	17.0	ug/m3	3.4	1.79		03/04/22 20:03	64-17-5		
Ethyl acetate	2.2	ug/m3	1.3	1.79		03/04/22 20:03	141-78-6		
Ethylbenzene	<1.6	ug/m3	1.6	1.79		03/04/22 20:03	100-41-4		
4-Ethyltoluene	<4.5	ug/m3	4.5	1.79		03/04/22 20:03	622-96-8		
n-Heptane	<1.5	ug/m3	1.5	1.79		03/04/22 20:03	142-82-5		
Hexachloro-1,3-butadiene	<9.7	ug/m3	9.7	1.79		03/04/22 20:03	87-68-3		
n-Hexane	<1.3	ug/m3	1.3	1.79		03/04/22 20:03	110-54-3		
2-Hexanone	<7.4	ug/m3	7.4	1.79		03/04/22 20:03	591-78-6		
Methylene Chloride	<6.3	ug/m3	6.3	1.79		03/04/22 20:03	75-09-2		
4-Methyl-2-pentanone (MIBK)	<7.4	ug/m3	7.4	1.79		03/04/22 20:03	108-10-1		
Methyl-tert-butyl ether	<6.6	ug/m3	6.6	1.79		03/04/22 20:03	1634-04-4		
Naphthalene	<4.8	ug/m3	4.8	1.79		03/04/22 20:03	91-20-3		
2-Propanol	<4.5	ug/m3	4.5	1.79		03/04/22 20:03	67-63-0		
Propylene	<1.6	ug/m3	1.6	1.79		03/04/22 20:03	115-07-1		
Styrene	<3.9	ug/m3	3.9	1.79		03/04/22 20:03	100-42-5		
1,1,2,2-Tetrachloroethane	<2.5	ug/m3	2.5	1.79		03/04/22 20:03	79-34-5		

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: OA-1		Lab ID: 70204938005		Collected: 02/17/22 15:36		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Tetrachloroethene	<1.2	ug/m3	1.2	1.79		03/04/22 20:03	127-18-4		
Tetrahydrofuran	<1.1	ug/m3	1.1	1.79		03/04/22 20:03	109-99-9		
Toluene	1.4	ug/m3	1.4	1.79		03/04/22 20:03	108-88-3		
1,2,4-Trichlorobenzene	<13.5	ug/m3	13.5	1.79		03/04/22 20:03	120-82-1		
1,1,1-Trichloroethane	<2.0	ug/m3	2.0	1.79		03/04/22 20:03	71-55-6		
1,1,2-Trichloroethane	<0.99	ug/m3	0.99	1.79		03/04/22 20:03	79-00-5		
Trichloroethene	<0.98	ug/m3	0.98	1.79		03/04/22 20:03	79-01-6		
Trichlorofluoromethane	<2.0	ug/m3	2.0	1.79		03/04/22 20:03	75-69-4		
1,1,2-Trichlorotrifluoroethane	<2.8	ug/m3	2.8	1.79		03/04/22 20:03	76-13-1		
1,2,4-Trimethylbenzene	<1.8	ug/m3	1.8	1.79		03/04/22 20:03	95-63-6		
1,3,5-Trimethylbenzene	<1.8	ug/m3	1.8	1.79		03/04/22 20:03	108-67-8		
Vinyl acetate	<1.3	ug/m3	1.3	1.79		03/04/22 20:03	108-05-4		
Vinyl chloride	<0.47	ug/m3	0.47	1.79		03/04/22 20:03	75-01-4		
m&p-Xylene	<3.2	ug/m3	3.2	1.79		03/04/22 20:03	179601-23-1		
o-Xylene	<1.6	ug/m3	1.6	1.79		03/04/22 20:03	95-47-6		

Sample: BLIND DUPE		Lab ID: 70204938006		Collected: 02/17/22 15:00		Received: 02/22/22 15:30		Matrix: Air	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
Acetone	36.6	ug/m3	10.8	1.79			03/04/22 17:27	67-64-1	
Benzene	1.4	ug/m3	0.58	1.79			03/04/22 17:27	71-43-2	
Benzyl chloride	<4.7	ug/m3	4.7	1.79			03/04/22 17:27	100-44-7	
Bromodichloromethane	<2.4	ug/m3	2.4	1.79			03/04/22 17:27	75-27-4	
Bromoform	<9.4	ug/m3	9.4	1.79			03/04/22 17:27	75-25-2	
Bromomethane	<1.4	ug/m3	1.4	1.79			03/04/22 17:27	74-83-9	
1,3-Butadiene	<0.81	ug/m3	0.81	1.79			03/04/22 17:27	106-99-0	
2-Butanone (MEK)	12.6	ug/m3	5.4	1.79			03/04/22 17:27	78-93-3	
Carbon disulfide	<1.1	ug/m3	1.1	1.79			03/04/22 17:27	75-15-0	
Carbon tetrachloride	<2.3	ug/m3	2.3	1.79			03/04/22 17:27	56-23-5	
Chlorobenzene	<1.7	ug/m3	1.7	1.79			03/04/22 17:27	108-90-7	
Chloroethane	<0.96	ug/m3	0.96	1.79			03/04/22 17:27	75-00-3	
Chloroform	5.3	ug/m3	0.89	1.79			03/04/22 17:27	67-66-3	
Chloromethane	<0.75	ug/m3	0.75	1.79			03/04/22 17:27	74-87-3	
Cyclohexane	<3.1	ug/m3	3.1	1.79			03/04/22 17:27	110-82-7	
Dibromochloromethane	<3.1	ug/m3	3.1	1.79			03/04/22 17:27	124-48-1	
1,2-Dibromoethane (EDB)	<1.4	ug/m3	1.4	1.79			03/04/22 17:27	106-93-4	
1,2-Dichlorobenzene	<5.5	ug/m3	5.5	1.79			03/04/22 17:27	95-50-1	
1,3-Dichlorobenzene	<5.5	ug/m3	5.5	1.79			03/04/22 17:27	541-73-1	
1,4-Dichlorobenzene	<5.5	ug/m3	5.5	1.79			03/04/22 17:27	106-46-7	
Dichlorodifluoromethane	6.3	ug/m3	1.8	1.79			03/04/22 17:27	75-71-8	
1,1-Dichloroethane	<1.5	ug/m3	1.5	1.79			03/04/22 17:27	75-34-3	
1,2-Dichloroethane	<1.5	ug/m3	1.5	1.79			03/04/22 17:27	107-06-2	

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ANALYTICAL RESULTS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

Sample: BLIND DUPE		Lab ID: 70204938006		Collected: 02/17/22 15:00		Received: 02/22/22 15:30		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
		Pace Analytical Services - Minneapolis							
1,1-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 17:27	75-35-4		
cis-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 17:27	156-59-2		
trans-1,2-Dichloroethene	<1.4	ug/m3	1.4	1.79		03/04/22 17:27	156-60-5		
1,2-Dichloropropane	<1.7	ug/m3	1.7	1.79		03/04/22 17:27	78-87-5		
cis-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 17:27	10061-01-5		
trans-1,3-Dichloropropene	<4.1	ug/m3	4.1	1.79		03/04/22 17:27	10061-02-6		
Dichlorotetrafluoroethane	<2.5	ug/m3	2.5	1.79		03/04/22 17:27	76-14-2		
Ethanol	588	ug/m3	3.4	1.79		03/04/22 17:27	64-17-5		
Ethyl acetate	4.2	ug/m3	1.3	1.79		03/04/22 17:27	141-78-6		
Ethylbenzene	<1.6	ug/m3	1.6	1.79		03/04/22 17:27	100-41-4		
4-Ethyltoluene	<4.5	ug/m3	4.5	1.79		03/04/22 17:27	622-96-8		
n-Heptane	1.8	ug/m3	1.5	1.79		03/04/22 17:27	142-82-5		
Hexachloro-1,3-butadiene	<9.7	ug/m3	9.7	1.79		03/04/22 17:27	87-68-3		
n-Hexane	3.1	ug/m3	1.3	1.79		03/04/22 17:27	110-54-3		
2-Hexanone	<7.4	ug/m3	7.4	1.79		03/04/22 17:27	591-78-6		
Methylene Chloride	<6.3	ug/m3	6.3	1.79		03/04/22 17:27	75-09-2		
4-Methyl-2-pentanone (MIBK)	<7.4	ug/m3	7.4	1.79		03/04/22 17:27	108-10-1		
Methyl-tert-butyl ether	<6.6	ug/m3	6.6	1.79		03/04/22 17:27	1634-04-4		
Naphthalene	<4.8	ug/m3	4.8	1.79		03/04/22 17:27	91-20-3		
2-Propanol	92.6	ug/m3	4.5	1.79		03/04/22 17:27	67-63-0		
Propylene	<1.6	ug/m3	1.6	1.79		03/04/22 17:27	115-07-1		
Styrene	<3.9	ug/m3	3.9	1.79		03/04/22 17:27	100-42-5		
1,1,2,2-Tetrachloroethane	<2.5	ug/m3	2.5	1.79		03/04/22 17:27	79-34-5		
Tetrachloroethene	<1.2	ug/m3	1.2	1.79		03/04/22 17:27	127-18-4		
Tetrahydrofuran	10.7	ug/m3	1.1	1.79		03/04/22 17:27	109-99-9		
Toluene	9.2	ug/m3	1.4	1.79		03/04/22 17:27	108-88-3		
1,2,4-Trichlorobenzene	<13.5	ug/m3	13.5	1.79		03/04/22 17:27	120-82-1		
1,1,1-Trichloroethane	<2.0	ug/m3	2.0	1.79		03/04/22 17:27	71-55-6		
1,1,2-Trichloroethane	<0.99	ug/m3	0.99	1.79		03/04/22 17:27	79-00-5		
Trichloroethene	<0.98	ug/m3	0.98	1.79		03/04/22 17:27	79-01-6		
Trichlorofluoromethane	14.3	ug/m3	2.0	1.79		03/04/22 17:27	75-69-4		
1,1,2-Trichlorotrifluoroethane	<2.8	ug/m3	2.8	1.79		03/04/22 17:27	76-13-1		
1,2,4-Trimethylbenzene	2.1	ug/m3	1.8	1.79		03/04/22 17:27	95-63-6		
1,3,5-Trimethylbenzene	<1.8	ug/m3	1.8	1.79		03/04/22 17:27	108-67-8		
Vinyl acetate	<1.3	ug/m3	1.3	1.79		03/04/22 17:27	108-05-4		
Vinyl chloride	<0.47	ug/m3	0.47	1.79		03/04/22 17:27	75-01-4		
m&p-Xylene	5.0	ug/m3	3.2	1.79		03/04/22 17:27	179601-23-1		
o-Xylene	2.1	ug/m3	1.6	1.79		03/04/22 17:27	95-47-6		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

QC Batch:	801926	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 70204938001, 70204938002, 70204938003, 70204938004, 70204938005, 70204938006

METHOD BLANK:	4258752	Matrix:	Air
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Associated Lab Samples: 70204938001, 70204938002, 70204938003, 70204938004, 70204938005, 70204938006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.56	0.56	03/04/22 10:11	
1,1,2,2-Tetrachloroethane	ug/m3	<0.70	0.70	03/04/22 10:11	
1,1,2-Trichloroethane	ug/m3	<0.28	0.28	03/04/22 10:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.78	0.78	03/04/22 10:11	
1,1-Dichloroethane	ug/m3	<0.41	0.41	03/04/22 10:11	
1,1-Dichloroethene	ug/m3	<0.40	0.40	03/04/22 10:11	
1,2,4-Trichlorobenzene	ug/m3	<3.8	3.8	03/04/22 10:11	
1,2,4-Trimethylbenzene	ug/m3	<0.50	0.50	03/04/22 10:11	
1,2-Dibromoethane (EDB)	ug/m3	<0.39	0.39	03/04/22 10:11	
1,2-Dichlorobenzene	ug/m3	<1.5	1.5	03/04/22 10:11	
1,2-Dichloroethane	ug/m3	<0.41	0.41	03/04/22 10:11	
1,2-Dichloropropane	ug/m3	<0.47	0.47	03/04/22 10:11	
1,3,5-Trimethylbenzene	ug/m3	<0.50	0.50	03/04/22 10:11	
1,3-Butadiene	ug/m3	<0.22	0.22	03/04/22 10:11	
1,3-Dichlorobenzene	ug/m3	<1.5	1.5	03/04/22 10:11	
1,4-Dichlorobenzene	ug/m3	<1.5	1.5	03/04/22 10:11	
2-Butanone (MEK)	ug/m3	<1.5	1.5	03/04/22 10:11	
2-Hexanone	ug/m3	<2.1	2.1	03/04/22 10:11	
2-Propanol	ug/m3	<1.2	1.2	03/04/22 10:11	
4-Ethyltoluene	ug/m3	<1.2	1.2	03/04/22 10:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	<2.1	2.1	03/04/22 10:11	
Acetone	ug/m3	<3.0	3.0	03/04/22 10:11	
Benzene	ug/m3	<0.16	0.16	03/04/22 10:11	
Benzyl chloride	ug/m3	<1.3	1.3	03/04/22 10:11	
Bromodichloromethane	ug/m3	<0.68	0.68	03/04/22 10:11	
Bromoform	ug/m3	<2.6	2.6	03/04/22 10:11	
Bromomethane	ug/m3	<0.39	0.39	03/04/22 10:11	
Carbon disulfide	ug/m3	<0.32	0.32	03/04/22 10:11	
Carbon tetrachloride	ug/m3	<0.64	0.64	03/04/22 10:11	
Chlorobenzene	ug/m3	<0.47	0.47	03/04/22 10:11	
Chloroethane	ug/m3	<0.27	0.27	03/04/22 10:11	
Chloroform	ug/m3	<0.25	0.25	03/04/22 10:11	
Chloromethane	ug/m3	<0.21	0.21	03/04/22 10:11	
cis-1,2-Dichloroethene	ug/m3	<0.40	0.40	03/04/22 10:11	
cis-1,3-Dichloropropene	ug/m3	<1.2	1.2	03/04/22 10:11	
Cyclohexane	ug/m3	<0.88	0.88	03/04/22 10:11	
Dibromochloromethane	ug/m3	<0.86	0.86	03/04/22 10:11	
Dichlorodifluoromethane	ug/m3	<0.50	0.50	03/04/22 10:11	
Dichlorotetrafluoroethane	ug/m3	<0.71	0.71	03/04/22 10:11	
Ethanol	ug/m3	<0.96	0.96	03/04/22 10:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

METHOD BLANK: 4258752

Matrix: Air

Associated Lab Samples: 70204938001, 70204938002, 70204938003, 70204938004, 70204938005, 70204938006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.37	0.37	03/04/22 10:11	
Ethylbenzene	ug/m3	<0.44	0.44	03/04/22 10:11	
Hexachloro-1,3-butadiene	ug/m3	<2.7	2.7	03/04/22 10:11	
m&p-Xylene	ug/m3	<0.88	0.88	03/04/22 10:11	
Methyl-tert-butyl ether	ug/m3	<1.8	1.8	03/04/22 10:11	
Methylene Chloride	ug/m3	<1.8	1.8	03/04/22 10:11	
n-Heptane	ug/m3	<0.42	0.42	03/04/22 10:11	
n-Hexane	ug/m3	<0.36	0.36	03/04/22 10:11	
Naphthalene	ug/m3	<1.3	1.3	03/04/22 10:11	
o-Xylene	ug/m3	<0.44	0.44	03/04/22 10:11	
Propylene	ug/m3	<0.44	0.44	03/04/22 10:11	
Styrene	ug/m3	<1.1	1.1	03/04/22 10:11	MN
Tetrachloroethene	ug/m3	<0.34	0.34	03/04/22 10:11	
Tetrahydrofuran	ug/m3	<0.30	0.30	03/04/22 10:11	
Toluene	ug/m3	<0.38	0.38	03/04/22 10:11	
trans-1,2-Dichloroethene	ug/m3	<0.40	0.40	03/04/22 10:11	
trans-1,3-Dichloropropene	ug/m3	<1.2	1.2	03/04/22 10:11	
Trichloroethene	ug/m3	<0.27	0.27	03/04/22 10:11	
Trichlorofluoromethane	ug/m3	<0.57	0.57	03/04/22 10:11	
Vinyl acetate	ug/m3	<0.36	0.36	03/04/22 10:11	
Vinyl chloride	ug/m3	<0.13	0.13	03/04/22 10:11	

LABORATORY CONTROL SAMPLE: 4258753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	57.5	97	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	79.9	106	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	64.4	108	70-131	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	94.2	113	70-130	
1,1-Dichloroethane	ug/m3	43.9	49.5	113	70-130	
1,1-Dichloroethene	ug/m3	43.5	49.3	113	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	184	104	70-130	
1,2,4-Trimethylbenzene	ug/m3	54	57.2	106	70-137	
1,2-Dibromoethane (EDB)	ug/m3	82.5	90.6	110	70-137	
1,2-Dichlorobenzene	ug/m3	66.2	69.4	105	70-131	
1,2-Dichloroethane	ug/m3	44.4	43.0	97	70-134	
1,2-Dichloropropane	ug/m3	50.6	52.2	103	70-130	
1,3,5-Trimethylbenzene	ug/m3	53.7	57.4	107	70-131	
1,3-Butadiene	ug/m3	24.2	27.0	112	70-139	
1,3-Dichlorobenzene	ug/m3	66.3	68.1	103	70-134	
1,4-Dichlorobenzene	ug/m3	66.3	68.4	103	70-131	
2-Butanone (MEK)	ug/m3	32.3	34.9	108	70-133	
2-Hexanone	ug/m3	44.8	46.2	103	70-136	
2-Propanol	ug/m3	149	166	112	65-133	

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QUALITY CONTROL DATA

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

LABORATORY CONTROL SAMPLE: 4258753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	55.9	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	47.7	106	70-130	
Acetone	ug/m3	128	133	104	60-134	
Benzene	ug/m3	34.8	35.9	103	70-130	
Benzyl chloride	ug/m3	57.6	58.0	101	70-130	
Bromodichloromethane	ug/m3	73.1	78.6	107	70-130	
Bromoform	ug/m3	114	122	107	70-138	
Bromomethane	ug/m3	42.5	47.4	112	68-131	
Carbon disulfide	ug/m3	34.4	36.3	105	70-130	
Carbon tetrachloride	ug/m3	69.4	73.3	106	70-132	
Chlorobenzene	ug/m3	50.2	50.2	100	70-130	
Chloroethane	ug/m3	28.8	31.5	109	70-134	
Chloroform	ug/m3	52.4	50.7	97	70-130	
Chloromethane	ug/m3	22.6	24.7	110	68-131	
cis-1,2-Dichloroethene	ug/m3	43.4	48.9	113	70-136	
cis-1,3-Dichloropropene	ug/m3	49.4	52.9	107	70-130	
Cyclohexane	ug/m3	37.4	46.3	124	70-131	
Dibromochloromethane	ug/m3	93.2	102	109	70-134	
Dichlorodifluoromethane	ug/m3	54.6	51.9	95	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	64.7	91	70-130	
Ethanol	ug/m3	124	130	105	55-145	
Ethyl acetate	ug/m3	38.9	42.2	108	70-135	
Ethylbenzene	ug/m3	47.8	52.2	109	70-133	
Hexachloro-1,3-butadiene	ug/m3	133	145	109	70-132	
m&p-Xylene	ug/m3	95.4	102	106	70-134	
Methyl-tert-butyl ether	ug/m3	39.6	33.7	85	70-131	
Methylene Chloride	ug/m3	190	216	113	65-132	
n-Heptane	ug/m3	44.6	55.6	125	70-130	
n-Hexane	ug/m3	38	43.6	115	70-132	
Naphthalene	ug/m3	65.2	66.4	102	70-130	
o-Xylene	ug/m3	47.6	49.8	105	70-134	
Propylene	ug/m3	18.9	20.8	110	69-133	
Styrene	ug/m3	47	49.0	104	70-135	
Tetrachloroethene	ug/m3	73.4	77.1	105	70-134	
Tetrahydrofuran	ug/m3	32.1	41.1	128	70-140	
Toluene	ug/m3	41.6	44.8	108	70-136	
trans-1,2-Dichloroethene	ug/m3	43.6	43.2	99	70-134	
trans-1,3-Dichloropropene	ug/m3	50.5	53.1	105	70-131	
Trichloroethene	ug/m3	58.4	62.5	107	70-134	
Trichlorofluoromethane	ug/m3	62	70.7	114	63-130	
Vinyl acetate	ug/m3	46.4	51.9	112	70-139	
Vinyl chloride	ug/m3	28	25.6	91	70-132	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1199 SUTTER AVENUE 2/17

Pace Project No.: 70204938

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1199 SUTTER AVENUE 2/17

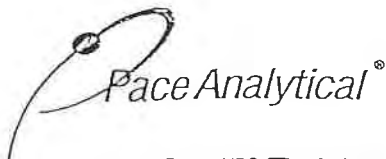
Pace Project No.: 70204938

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70204938001	SS1	TO-15	801926		
70204938002	IA-1	TO-15	801926		
70204938003	SSV-2	TO-15	801926		
70204938004	ASV-2	TO-15	801926		
70204938005	OA-1	TO-15	801926		
70204938006	BLIND DUPE	TO-15	801926		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70204938

Client Name:

Project

PM: STS

Due Date: 03/08/22

CLIENT: ENVIROTRAC

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No ☐ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: ± 0.0

Cooler Temperature(°C):

Cooler Temperature Corrected(°C):

Temperature Blank Present: ☐ Yes ☒ NoType of Ice: Wet Blue ☒ None☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)Date and Initials of person examining contents: I.T 1620

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ Noincluding Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12.
-Includes date/time/ID, Matrix: SL WT OIL	<u>AIR</u>	
All containers needing preservation have been checked?	☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with method recommendation?		
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).		
Per Method, VOA pH is checked after analysis		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #		
Residual chlorine strips Lot #		Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes ☐ No ☒ N/A	15.
Lead Acetate Strips Lot #		Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution: