

LIMITED PHASE II
ENVIRONMENTAL SITE
SAMPLING REPORT

148 9th Street
Oakland
California

FOR

Randolph Huey
2231 Hillside Drive
San Leandro, CA 94577



March 12, 2021
21-ENV5893



March 12, 2021
21-ENV5893

Randolph Huey
2231 Hillside Drive
San Leandro, CA 94577

Attention: Mr. Randolph Huey

Subject: Limited Phase II Environmental Site Sampling Report
148 9th Street
Oakland, California 94607

Dear Mr. Huey:

This report presents the results of a Limited Phase II Environmental Site Sampling Report prepared by Basics Environmental, Inc. (Basics) for the site located at 148 9th Street in Oakland, California. This Limited Phase II Environmental Site Sampling Report is based on the information compiled by Basics' subconsultant Ms. Lita Freeman, Professional Geologist #7368 with Environmental Risk Assessors.

Based on four soil gas samples collected from four borings advanced at the subject site, various volatile organic compounds (VOCs) were reported in soil vapor samples at concentrations below their respective Tier 1 ESL except as follows: tetrachloroethene (PCE) in one sample (SV-3) at a concentration (26 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) which is above its' Tier 1 ESL (15 $\mu\text{g}/\text{m}^3$) however below its' commercial/industrial properties ESL (67 $\mu\text{g}/\text{m}^3$). PCE's laboratory reporting limit (lab RL) of 20 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above its' Tier 1 ESL but below its' commercial/industrial properties ESL.

The lab Reporting Level (RL) for vinyl chloride, a break down product of PCE, of 1.5 $\mu\text{g}/\text{m}^3$ for samples SV-1, SV-3, and SV-4 is above its' Tier 1 ESL (0.32 $\mu\text{g}/\text{m}^3$) however below its' commercial/industrial properties ESL (5.2 $\mu\text{g}/\text{m}^3$); and the lab RL for vinyl chloride of 7.7 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above both its' Tier 1 ESL and commercial/industrial properties ESL. The lab RL for benzene of 9.6 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above its' Tier 1 ESL (3.2 $\mu\text{g}/\text{m}^3$) however below its' commercial/industrial properties ESL (14 $\mu\text{g}/\text{m}^3$).

Trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and trans-1,2-dichloroethene (trans-1,2-DCE) are also break down products of PCE however were not reported in the soil vapor samples at concentrations at or above their respective lab RL which were below their respective Tier 1 ESL.

Evidence of PCE and its' breakdown products within the soil gas suggests potential source areas may be present onsite at locations where the detected chemicals were historically used. The types of chemicals detected are consistent with the historic site use. Based on available information, historic locations of chemical use at the site are currently unknown. Furthermore, contamination is not necessarily evenly distributed across the subsurface. Therefore, impacts from former cleaner sites such as this can easily remain undetected. However, the highest concentration of PCE detected is below the ESL for the subject sites current use as commercial retail storefronts (commercial/industrial properties).

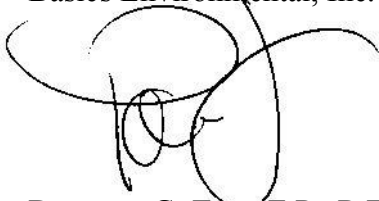
As such, a Soils Management Plan (SMP) which may include additional baseline sampling, but not limited to, should be prepared for the subject site for implementation during potential redevelopment of the subject site, in particular if residential development is planned, based on the detection of PCE in one soil vapor sample at a concentration above the Tier 1 ESL.

In accordance with generally accepted professional environmental practice, a copy of this report should be submitted to the proper local regulatory agency for review.

Should you have any questions regarding this report, please contact the undersigned.

Sincerely,

Basics Environmental, Inc.

A handwritten signature in black ink, appearing to read 'Donovan G. Tom', with a large, stylized flourish extending from the top of the signature.

Donovan G. Tom, E.P., R.E.P.A.
Principal Consultant

PROFESSIONAL CERTIFICATION

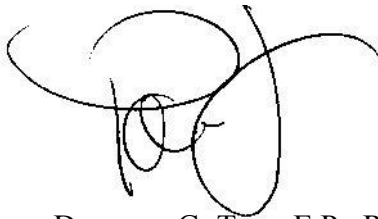
LIMITED PHASE II ENVIRONMENTAL SITE SAMPLING REPORT

148 9th Street
Oakland, California
For
Randolph Huey
21-ENV5893
March 12, 2021

This report has been prepared by the staff of Basics Environmental, Inc. (Basics) under the professional supervision of an "Environmental Professional" as defined by the U.S. Environmental Protection Agency's Final Rule. The findings, interpretations of data, recommendations, specifications or professional opinions are presented within the limits prescribed by available information at the time the report was prepared, in accordance with generally accepted professional environmental practice and within the requirements by the Client. There is no other warranty, either expressed or implied.

The data and findings of this report are based on the data and information obtained from the agreed upon scope of work between Basics and the Client. Because contamination is not necessarily evenly distributed across the property's soils and ground water, it can easily remain undetected and geology may control the subsurface distribution of contamination. Additional scope of services including geologic interpretation (at greater cost) may or may not disclose information which may significantly modify the findings of this report. We accept no liability on completeness or accuracy of the information presented and or provided to us, or any conclusions and decisions which may be made by the Client or others regarding the subject site.

This report was prepared solely for the benefit of Basic's Client. Basics consents to the release of this report to third parties involved in the evaluation of the property for which the report was prepared, including without limitation, lenders, title companies, public institutions, attorneys, and other consultants. However, any use of or reliance upon this report shall be solely at the risk of such party and without legal recourse against Basics, or its subcontractors, affiliates, or their respective employees, officers, or directors, regardless of whether the action in which recovery of damage is sought is based upon contract, tort (including the sole, concurrent or other negligence and strict liability of Basics), statute or otherwise. This report shall not be used or relied upon by a party that does not agree to be bound by the above statements.



Donavan G. Tom, E.P., R.E.P.A.
Principal Consultant



Lita D. Freeman, P.G. #7368
Associate Consultant (Expires 11/30/21)



1. EXECUTIVE SUMMARY	1
1.1 Site Description and Background	1
1.2 Investigation	1
1.3 Findings	1
1.4 Conclusions	1
1.5 Recommendations	2
2. INTRODUCTION	2
2.1 Site Description	2
2.2 Background	2
2.3 Objectives and Scope of Work	3
2.4 Limitations and Exceptions	3
2.5 Special Terms and Conditions	3
2.6 User Reliance	4
2.7 Qualifications	4
3. VAPOR ENCROACHMENT	4
4. FIELD INVESTIGATION	4
4.1 Pre-Field Activities	4
4.1.1 Health and Safety	5
4.1.2 Permitting	5
4.2 Field Activities	5
4.2.1 Utility Clearance	5
4.2.2 Sampling	5
4.2.3 Borehole Abandonment and Investigation-Derived Waste Handling	6
5. ANALYSIS, RESULTS, AND EVALUATION	6
5.1 Soil Vapor Analysis and Results	6
5.2 Evaluation	7
6. CONCLUSIONS	8
7. RECOMMENDATIONS	8
8. REFERENCES	8

Tables

- 1 General Site Information (embedded in text)
- 2 Soil Vapor Canister Summary
- 3 Soil Vapor Samples - VOCs Analytical Summary

Figures

- 1 Site Location Map
- 2 Site Plan with Sampling Locations

Appendices

- A Use of California Environmental Protection Agency, Regional Water Quality Control Board-San Francisco Bay Region Environmental Screening Levels
- B Site Photographs
- C Field Data Sheets
- D Laboratory Analytical Report and Chain-of-Custody Documentation

1. EXECUTIVE SUMMARY

Environmental Risk Assessors (ERA) is pleased to present this Limited Phase II Environmental Site Assessment (ESA) Report (the "Report") for the property located at 148 9th Street in Oakland, California (the "Site"; Figure 1) to Basics Environmental, Inc. (Basics Environmental). The Site is currently developed with a commercial building (Figure 2).

1.1 Site Description and Background

The Site is located on the northeastern corner of the intersection of 9th Street and Madison Street. Currently, the Site is improved with an asphalt-paved parking lot surrounded by a chain-link fence.

Available information indicates that a dry-cleaning business was located on site in the past.

1.2 Investigation

Basics Environmental recommended limited sampling to help assess vapor encroachment potential from the former on-site dry-cleaning business.

The objective of the limited Phase II ESA was to evaluate current subsurface conditions in select on-site areas. To meet this objective, soil gas samples were collected from the Site for analysis with comparison of analytical results to established screening levels. The investigation consisted of: 1) installing four temporary 3-foot deep soil vapor wells on site; 2) collecting soil vapor samples from the temporary soil vapor wells; 3) submitting the samples for volatile organic compounds (VOCs) analysis; and 4) preparing this report presenting the results of the Limited Phase II ESA.

1.3 Findings

Analytical results were compared to Tier 1 Environmental Screening Levels (ESLs) and Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels: Commercial/Industrial (commercial/industrial properties ESLs) established by the California Environmental Protection Agency (Cal-EPA) Regional Water Quality Control Board-San Francisco Bay Region (SFBRWQCB, Environmental Screening Levels Tier 1 ESLs, 2019 [Rev. 2]). A discussion of use of ESLs is presented in Appendix A.

Various VOCs were reported in soil vapor samples at concentrations below their respective Tier 1 ESL except as follows: tetrachloroethene (PCE) in one sample (SV-3) at a concentration (26 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) which is above its' Tier 1 ESL (15 $\mu\text{g}/\text{m}^3$) but below its' commercial/industrial properties ESL (67 $\mu\text{g}/\text{m}^3$). PCE's laboratory reporting limit (lab RL) of 20 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above its' Tier 1 ESL but below its' commercial/industrial properties ESL.

The lab RL for vinyl chloride, a break down product of PCE, of 1.5 $\mu\text{g}/\text{m}^3$ for samples SV-1, SV-3, and SV-4 is above its' Tier 1 ESL (0.32 $\mu\text{g}/\text{m}^3$) but below its' commercial/industrial properties ESL (5.2 $\mu\text{g}/\text{m}^3$); and the lab RL for vinyl chloride of 7.7 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above both its' Tier 1 ESL and commercial/industrial properties ESL. Benzene's lab RL of 9.6 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above its' Tier 1 ESL (3.2 $\mu\text{g}/\text{m}^3$) but below its' commercial/industrial properties ESL (14 $\mu\text{g}/\text{m}^3$).

Trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and trans-1,2-dichloroethene (trans-1,2-DCE) are also break down products of PCE but were not reported in the soil vapor samples at concentrations at or above their respective lab RL which were below their respective Tier 1 ESL.

The leak check compound 1,1-difluoroethane (1,1-DFA) was not reported in soil vapor samples.

1.4 Conclusions

Analysis of four 3-foot deep soil vapor samples revealed the presence of various VOCs at concentrations at or below their respective Tier 1 ESL except for PCE. PCE was reported in one

Environmental Risk Assessors

sample (SV-3) with the concentration (26 µg/m³) above its' Tier 1 ESL (15 µg/m³) but below its' commercial/ industrial properties ESL (67 µg/m³). The lab RL for one sample (SV-2) of 20 µg/m³ is above its' Tier 1 ESL but below its' commercial/industrial properties ESL. Potential sources for the PCE reported in soil vapor include the former on-site dry-cleaners (as the single detection is in the area reportedly occupied by the past on-site structure) and migration from off-site properties.

The lab RL (1.5 µg/m³) for vinyl chloride, a break down product of PCE, for samples SV-1, SV-3, and SV-4 is above its' Tier 1 ESL (0.32 µg/m³) but below its' commercial/industrial properties ESL (5.2 µg/m³) and the lab RL (7.7 µg/m³) for vinyl chloride for sample SV-2 is above both its' Tier 1 ESL and commercial/industrial properties ESL.

The lab RL (9.6 µg/m³) for benzene lab for sample SV-2 is above its' Tier 1 ESL (3.2 µg/m³) but below its' commercial/industrial properties ESL (14 µg/m³).

ERA noted that IPA was reported in each soil vapor sample. The source of the IPA is unknown as IPA was not used as the leak check compound, new tubing was used in the sampling train, and sample locations were outside in a parking lot. ESLs have not been established for IPA.

1.5 Recommendations

A Soils Management Plan (SMP) should be prepared for the Site for implementation during re-development of the Site, in particular if residential development is planned, based on the detection of PCE in one soil vapor sample at a concentration above its' Tier 1 ESL. ERA notes that the reported concentration of PCE and PCE's lab RLs for the remaining soil vapor samples were below its' commercial/industrial properties ESL.

2. INTRODUCTION

ERA is pleased to present this Limited Phase II ESA Report for the property located at 148 9th Street in Oakland, Alameda County, California (Figure 1) to Basics Environmental. The Site is currently developed with a paved parking lot surrounded by a chain-link fence (Figure 2).

Basics Environmental requested that ERA conduct a limited Phase II ESA of the Site to facilitate their evaluation of the Site and current subsurface conditions.

The findings and conclusions presented in this Report are based on results of a limited assessment that included collecting and analyzing soil vapor samples from the Site and evaluating data obtained during the field investigation and provided by the analytical laboratory.

2.1 Site Description

The Site is located on the northeastern corner of the intersection of 9th Street and Madison Street. Currently, the Site is improved with an asphalt-paved parking lot surrounded by a chain-link fence.

Site-specific information is presented in Table 1.

Table 1. General Site Information	
Project Name: 9 th Street Property	Address: 148 9 th Street in Oakland, California
Current Development: Asphalt paved parking lot	Location: Northeastern corner of the intersection of 9 th Street and Madison Street

2.2 Background

Available information indicates that a dry-cleaning business was located on site in the past.

Basics Environmental recommended limited sampling to help assess vapor encroachment potential from the former on-site laundry that may have included dry-cleaning operations.

2.3 Objectives and Scope of Work

The objective of the limited Phase II ESA was to evaluate current subsurface conditions in select on-site areas. To meet this objective, soil vapor samples were collected from select sampling locations for analysis with comparison of the analytical results to established screening levels.

The investigation consisted of the following:

- Installing four temporary 3-foot deep soil vapor wells, designated SV-1 through SV-4 (see Figure 2);
- Collecting soil vapor samples from the four temporary soil gas wells;
- Submitting samples for VOCs analysis; and
- Preparing this report presenting the results of the Limited Phase II ESA.

2.4 Limitations and Exceptions

The opinions and recommendations presented in this Report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ERA and the party for whom this report was originally prepared. This Report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that ERA relied upon any information prepared by other parties not under contract to ERA, ERA makes no representation as to the accuracy or completeness of such information.

This Report is expressly for the sole and exclusive use of the parties for which this Report was originally prepared for a particular purpose. Only the parties for which this Report was originally prepared and/or other specifically named parties, may make use of and rely upon the information in this Report. Reuse of this Report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties without proper authorization, shall be at the user's sole risk.

The findings presented in this Report apply solely to site conditions existing at the time when ERA's assessment was performed. It must be recognized, however, that a Limited Phase II ESA is conducted for the purpose of evaluating the potential for contamination through limited investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ERA's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in limited Phase II ESA conclusions cannot reasonably be achieved.

Nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

2.5 Special Terms and Conditions

The limited Phase II ESA scope of work (SOW) was presented in ERA's proposal dated February 12, 2021. The SOW for the assessment did not include tasks not specifically noted in the proposal.

2.6 User Reliance

This Report is for the exclusive use of the parties for which it was prepared, their agents, and assignees, and for such other parties as ERA agrees may rely on the Report. Use of this Report by any other party shall be at such party's sole risk.

2.7 Qualifications

A summary of the ERA personnel who worked on this project follows:

- Ms. Lita Freeman, California Professional Geologist and California Asbestos Consultant, has over 25 years of experience providing site assessment services. This has included evaluating potential property impacts from historical on- and off-site operations, conducting subsurface investigations, and implementing site remediation plans. Ms. Freeman works with property owners, attorneys, and regulators to mitigate and resolve environmental issues.

3. VAPOR ENCROACHMENT

Vapor encroachment occurs when vapors from volatile chemicals in polluted soil or groundwater are present in sufficient concentrations and under certain conditions such that volatile chemical vapors may migrate upwards into the indoor air of overlying buildings. Vapor encroachment chemicals of concern (COCs) include VOCs. Once contaminant vapors enter a structure, they may accumulate and potentially pose health hazards for building occupants.

To ensure that vapor encroachment is appropriately considered when performing an environmental site assessment, the American Society for Testing and Materials International (ASTM) released its Vapor Encroachment Standard (ASTM E2600-10) in 2010. In accordance with the new standard, two conditions are evaluated: Vapor Encroachment Condition (VEC) and potential Vapor Encroachment Condition (pVEC). A VEC results from "the presence or likely presence of any chemicals of concern in the indoor air environment of existing or planned structures on a property caused by the release of vapor from contaminated soil or groundwater on the property or within close proximity to the property, at a concentration that presents or may present an unacceptable health risk to occupants." A pVEC is "a condition that exists when screening indicates the possibility of a VEC, but where there is insufficient data to ascertain the presence or likely presence of COCs in the indoor air environment." "Chemicals of Concern" are defined by the ASTM to be "chemicals in the subsurface environment that are known or reasonably expected to be present, that can potentially migrate as a vapor into an existing or planned structure on a property, and that are generally recognized as having the potential for an adverse impact on human health."

Based on the past site operations, a potential exists for vapor encroachment, therefore, soil vapor sampling was conducted as part of this Limited Phase II ESA.

4. FIELD INVESTIGATION

This Limited Phase II ESA was conducted to evaluate current conditions by collecting soil vapor samples from select on-site locations for analysis with comparison of the analytical results to established screening levels. The scope of work and results of this Limited Phase II ESA are presented below.

Photographs of the Site and site investigation are included in Appendix B.

4.1 Pre-Field Activities

Prior to conducting field activities associated with the proposed assessment, the pre-field tasks described below were completed.

4.1.1 Health and Safety

ERA prepared a site-specific *Health and Safety Plan* for the scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document was reviewed and signed by ERA staff and contractors performing work on site under the oversight of ERA personnel.

4.1.2 Permitting

ERA was not required to obtain a soil boring permit from the Alameda County Department of Public Works prior to commencing intrusive field activities due to the shallow sampling depth for soil vapor samples.

4.2 Field Activities

4.2.1 Utility Clearance

Underground Services Alert North (USA North) was notified of the proposed work and a private utility locating contractor was retained to clear proposed sampling locations of underground utilities.

4.2.2 Sampling

On February 20, 2021, ERA personnel installed four temporary 3-foot deep soil vapor wells and collected soil vapor samples from each well. The following sampling locations were selected:

- SV-1 in the northern portion of the Site;
- SV-2 in the central portion of the Site;
- SV-3 in the central portion of the Site; and
- SV-4 in the southern portion of the Site.

A temporary soil vapor well was installed at each location by pushing a stainless-steel probe equipped with a hardened, reverse-threaded steel driving point through the asphalt pavement and into the subsurface to a depth of approximately 3 feet below ground surface (bgs) with a roto-hammer.

The soil vapor wells were set at a depth of approximately 3 feet bgs based on the reported shallow depth (5 to 10 feet bgs) to groundwater in the site vicinity.

Sand was then placed in the bottom of the hole around a vapor tip that was attached to a length of 1/8-inch diameter Nylaflow tubing that extended above the pavement. The sand layer helped ensure that the vapor tip and connected tubing were not in direct contact with the bottom of the borehole. Dry granular bentonite (the "transition seal") was placed in the borehole above the sand pack to prevent the annular sealing materials (water and hydrated granular bentonite) from infiltrating into the sand pack. Hydrated bentonite was then placed from above the dry granular bentonite to the floor surface.

The tubing connected to the vapor tip was extended above ground to allow connection with the soil vapor sampling train. Soil vapor sampling equipment was provided by Enthalpy Analytical (Enthalpy) of Berkeley, California and included manifolds (each with a vacuum gauge and regulator) and evacuated 1-liter stainless steel Summa canisters to contain the soil vapor samples (SV-1 through SV-4). Each 1-liter canister-specific regulator was pre-set to not exceed a flow rate of 150 milliliters per minute (ml/min). Each canister was checked, tested, and certified by Enthalpy for air tightness and proper vacuum prior to shipping to ERA. The serial numbers of each manifold

and Summa canister used during the investigation and the initial and final vacuum readings were recorded (Table 2).

The area around each soil vapor sample location was checked for cracks and fissures to the extent feasible. Significant cracks or fissures were not observed in the immediately vicinity of the sampling locations.

A shut-in test was performed after the sampling equipment was set up at each location. Prior to sampling, the tubing was purged of approximately three well volumes (approximately 154 cubic centimeters) using a syringe. After purging was complete, the valve to the Summa canister was opened, thereby placing a vacuum in the tubing and drawing the soil gas sample into the canister.

A leak test was performed using a leak detection compound (tracer gas) to evaluate possible ambient air intrusion into the Summa canister during the soil gas sampling. The leak detection compound that was used during this project was 1,1-DFA. The leak test consisted of placing a cotton ball wetted with 1,1-DFA within a shroud above the well head after the Summa canister was connected to collect the soil vapor sample.

After an internal vacuum of approximately -5 inches mercury (Hg) was reached (from an initial internal vacuum of approximately -30 inches Hg), the Summa canister was disconnected and the canister was packed securely for transport by ERA's representative to Enthalpy's office under chain-of-custody documentation.

Pertinent field sampling data for the soil vapor sampling are presented in Table 2 and the field data sheets included in Appendix C.

4.2.3 Borehole Abandonment and Investigation-Derived Waste Handling

After completing sampling activities, the tubing was removed and each hole was backfilled with cement to the surface.

No investigation-derived waste (IDW) was left on the Site.

5. ANALYSIS, RESULTS, AND EVALUATION

The soil vapor samples were submitted to Enthalpy, a laboratory certified by the State of California to perform the requested analyses. The analytical methods, results, and evaluation of this Limited Phase II ESA are presented below. Copies of the laboratory analytical reports and chain-of-custody documentation are presented in Appendix D.

5.1 Soil Vapor Analysis and Results

The soil vapor samples were analyzed for VOCs using U.S. Environmental Protection Agency (U.S. EPA) Method TO-15. Various VOCs were detected in the soil vapor samples at concentrations at or above their respective lab RL.

Reported concentrations for select VOCs are presented in Table 3. Reported concentrations for select VOCs, including PCE and breakdown products, are as follows (sample containing maximum concentration in parenthesis):

- PCE was reported in one sample at a concentration of 26 $\mu\text{g}/\text{m}^3$ (SV-3);
- Acetone was reported in each sample at up to 62 $\mu\text{g}/\text{m}^3$ (SV-1);
- 2-Butanone (MEK) was reported in one sample at 9 $\mu\text{g}/\text{m}^3$ (SV-1);
- Isopropyl alcohol (IPA) was reported in each sample at up to 760 $\mu\text{g}/\text{m}^3$ (SV-2);

Environmental Risk Assessors

- Toluene was reported in two samples at up to 2.9 $\mu\text{g}/\text{m}^3$ (SV-1);
- Ethyl acetate was reported in one sample at a concentration of 12 $\mu\text{g}/\text{m}^3$ (SV-4);
- 1,2,4-Trimethylbenzene was reported in one sample at a concentration of 6.2 $\mu\text{g}/\text{m}^3$ (SV-1); and
- m,p-Xylenes was reported in one sample at 6.4 $\mu\text{g}/\text{m}^3$ (SV-1).

TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride, break down products of PCE, were not reported in the soil vapor samples at concentrations at or above their respective lab RL.

The leak check compound 1,1-DFA was not detected in the soil vapor samples.

The analytical results for the compounds detected in the soil vapor samples are presented in Table 3 and discussed below in Section 5.2.

5.2 Evaluation

Analytical results were compared to Tier 1 ESLs and Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels: Commercial/Industrial (commercial/industrial properties ESLs), (SFBRWQCB, Environmental Screening Levels Tier 1 ESLs, 2019 [Rev. 2]). A discussion of use of ESLs is presented in Appendix A.

Comparison of the VOC concentrations to the Tier 1 ESLs for soil gas (SFBRWQCB, 2019 [Rev. 2]) indicated that various VOCs were reported in soil vapor samples at concentrations below their respective Tier 1 ESL except as follows:

- PCE in sample SV-3 at a concentration of 26 $\mu\text{g}/\text{m}^3$ which is above its' Tier 1 ESL of 15 $\mu\text{g}/\text{m}^3$ but below its' commercial/industrial properties ESL of 67 $\mu\text{g}/\text{m}^3$.

The lab RL for some VOCs were above their respective Tier 1 ESL and/or commercial/industrial properties ESL as follows:

- PCE lab RL of 20 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above its' Tier 1 ESL of 15 $\mu\text{g}/\text{m}^3$ but below its' commercial/industrial properties ESL of 67 $\mu\text{g}/\text{m}^3$.
- Benzene lab RL of 9.6 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above its' Tier 1 ESL of 3.2 $\mu\text{g}/\text{m}^3$ but below its' commercial/industrial properties ESL of 14 $\mu\text{g}/\text{m}^3$;
- Vinyl chloride, a break down product of PCE, lab RL of 1.5 $\mu\text{g}/\text{m}^3$ for samples SV-1, SV-3, and SV-4 is above its' Tier 1 ESL of 0.32 $\mu\text{g}/\text{m}^3$ but below its' commercial/industrial properties ESL of 5.2 $\mu\text{g}/\text{m}^3$; and
- Vinyl chloride lab RL of 7.7 $\mu\text{g}/\text{m}^3$ for sample SV-2 is above both its' Tier 1 ESL of 0.32 $\mu\text{g}/\text{m}^3$ and commercial/industrial properties ESL of 5.2 $\mu\text{g}/\text{m}^3$.

Cis-1,2-DCE and trans-1,2-DCE are also break down products of PCE but were not reported in the samples at concentrations at or above their respective lab RL. The lab RLs for these compounds are below their respective Tier 1 ESL.

An ESL has not been established for some compounds, including IPA.

The soil vapor ESLs applied to site-specific findings were derived under the assumption that the soil vapor investigation includes soil vapor samples collected from a variety of depths; therefore, these values are conservative for screening near surface values. The purpose of our

investigation was to obtain limited data to screen potential impacts to the subsurface from on-site operations and to evaluate potential impacts to human health for on-site workers.

The analytical results and the ESLs (Tier 1 and commercial/industrial properties) for the compounds detected in the soil vapor samples are presented in Table 2.

6. CONCLUSIONS

Analysis of four 3-foot deep soil vapor samples revealed the presence of various VOCs at concentrations at or below their respective Tier 1 ESL except for PCE. PCE was reported in one sample (SV-3) with the concentration above its' Tier 1 ESL ($15 \mu\text{g}/\text{m}^3$) but below its' commercial/industrial properties ESL ($67 \mu\text{g}/\text{m}^3$). The lab RL for one sample (SV-2) of $20 \mu\text{g}/\text{m}^3$ is above its' Tier 1 ESL but below its' commercial/industrial properties ESL. Potential sources for the PCE reported in soil vapor include the former on-site dry-cleaners (as the single detection is in the area reportedly occupied by the past on-site structure) and migration from off-site properties.

The lab RL ($1.5 \mu\text{g}/\text{m}^3$) for vinyl chloride, a break down product of PCE, for samples SV-1, SV-3, and SV-4 is above its' Tier 1 ESL ($0.32 \mu\text{g}/\text{m}^3$) but below its' commercial/industrial properties ESL ($5.2 \mu\text{g}/\text{m}^3$) and the lab RL ($7.7 \mu\text{g}/\text{m}^3$) for vinyl chloride for sample SV-2 is above both its' Tier 1 ESL and commercial/industrial properties ESL.

The lab RL ($9.6 \mu\text{g}/\text{m}^3$) for benzene for sample SV-2 is above its' Tier 1 ESL ($3.2 \mu\text{g}/\text{m}^3$) but below its' commercial/industrial properties ESL ($14 \mu\text{g}/\text{m}^3$).

ERA noted that IPA was reported in each soil vapor sample. The source of the IPA is unknown as IPA was not used as the leak check compound, new tubing was used in the sampling train, and sample locations were outside in a parking lot. ESLs have not been established for IPA.

7. RECOMMENDATIONS

A SMP should be prepared for the Site for implementation during re-development of the Site, in particular if residential development is planned, based on the detection of PCE in one soil vapor sample at a concentration above its' Tier 1 ESL. ERA notes that the reported concentration of PCE and PCE's lab RLs for the remaining soil vapor samples were below its' commercial/industrial properties ESL.

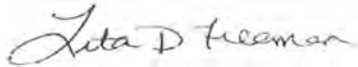
8. REFERENCES

American Society for Testing and Materials (ASTM), *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, June 2010.

California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). 2019 (Rev. 2). *Environmental Screening Levels, Tier 1 ESLs*. January.

SIGNATURES OF ENVIRONMENTAL PROFESSIONAL

Report Prepared By:



March 12, 2021

Lita D. Freeman, P.G.
Principal Geologist
California Professional Geologist No. 7368

Date

* A professional geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

Tables

Table 2
Soil Vapor Canister Summary
9th Street Property
148 9th Street
Oakland, California 94607

Sample ID	Canister Serial Number	Manifold Number/Guage Serial Number	Start Time (hours)	End Time (hours)	Beginning Vacuum Reading (inches Mercury)	Final Vacuum Reading (inches Mercury)
<i>February 20, 2021 Sampling Event</i>						
SV-1	423	062	1344	1351	-28	-5
SV-2	169	142	1355	1417	-30	-5
SV-3	254	009	1401	1409	-30	-5
SV-4	406	005	1412	1419	-24	-5

Table 3
Soil Vapor Samples - VOCs Analytical Summary
9th Street Property
148 9th Street
Oakland, California 94607

Sample Name	Sample Depth (ft bgs)	Sample Location	2019 Tier 1 ESL for Soil Gas ²	2019 Commercial/Industrial ESL ³	SV-1	SV-2	SV-3	SV-4
					3-foot below ground surface			
			Northern Portion of Site				Central Portion of Site	
			Central Portion of Site				Southern Portion of Site	
Analyte (units: µg/m ³)			February 20, 2021 Sampling Event ¹					
VOC Analytes (U.S. EPA Method TO-15)								
Acetone	1,000,000	4,500,000	62	47	22	25		
Benzene	3.2	14	<1.9	<9.6	<1.9	<1.9		
2-Butanone (MEK)	170,000	730,000	9.0	<44	<8.8	<8.8		
cis-1,2-Dichloroethene (cis-1,2-DCE)	280	1,200	<2.4	<12	<2.4	<2.4		
trans-1,2-Dichloroethene (trans-1,2-DCE)	2,800	12,000	<2.4	<12	<2.4	<2.4		
Ethyl acetate	NE	NE	<4.3	<22	<4.3	12		
Ethylbenzene	37	160	<2.6	<13	<2.6	<2.6		
Isopropyl Alcohol (IPA)	NE	NE	130	760	160	220		
Tetrachloroethene (PCE)	15	67	<4.1	<20	26	<4.1		
Toluene	10,000	44,000	2.9	<11	<2.3	2.7		
Trichloroethene (TCE) ⁴	16	100	<3.2	<16	<3.2	<3.2		
1,2,4-Trimethylbenzene	NE	NE	6.2	<15	<2.9	<2.9		
1,3,5-Trimethylbenzene	NE	NE	<2.9	<15	<2.9	<2.9		
Vinyl Chloride	0.32	5.2	<1.5	<7.7	<1.5	<1.5		
m,p-Xylenes	3,500	15,000	6.4	<26	<5.2	<5.2		
o-Xylenes	3,500	15,000	<2.6	<13	<2.6	<2.6		
Leak Check Compound (Given in µg/m³)								
1,1-Difluoroethane (1,1-DFA)	NE	NE	ND	ND	ND	ND		

Notes:

µg/m³ = micrograms per cubic meter

Soil vapor samples were submitted to Enthalpy Analytical (Enthalpy) of Orange, California for analysis.

1. Volatile Organic Compound (VOCs): Samples were collected by ERA in February 2021 and analyzed by Enthalpy using U.S. EPA Method TO-15. Select analytes reported in table (e.g. analytes selected include those detected at a concentration at or above the laboratory reporting limit [lab RL] in at least one sample, lab RL is above the Tier 1 or secondary ESLs, PCE and breakdown products, etc.). Please refer to analytical laboratory report for remaining list of analytes.

2. Tier 1 ESL = Tier 1 Environmental Screening Levels for sub-slab/soil gas as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), January 2019 (Rev. 2). NE = Not Established

3. Commercial/Industrial ESL = Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels: Commercial/Industrial. SFBRWQCB. January 2019 (Rev. 2).

Table 3
Soil Vapor Samples - VOCs Analytical Summary
9th Street Property
148 9th Street
Oakland, California 94607

4. TCE trigger concentration for soil gas is $270 \mu\text{g}/\text{m}^3$ per Tier 1 ESLs. SFBRWQCB, January 2019 (Rev. 2).

<1.5 = Compound not detected at concentration at or above the stated lab RL.

Bold = Compound reported at stated concentration.

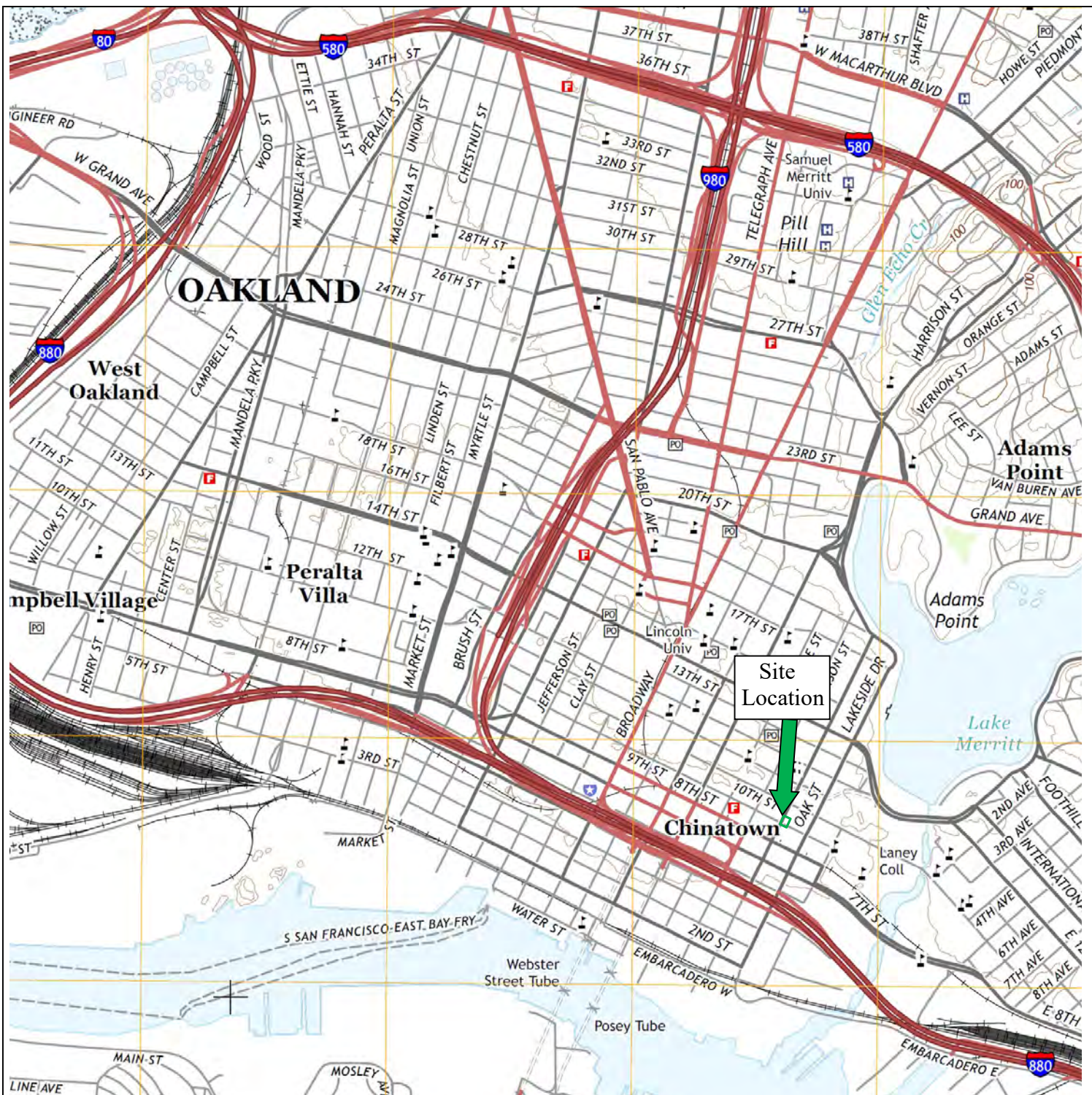
Bold = Analyte was reported at a concentration above its' Tier 1 ESL but below its' commercial/industrial ESL.

<1.5= Analyte lab RL is above it's Tier 1 ESL but below its' commercial/industrial ESL.

Bold = Analyte was reported at a concentration above its' Tier 1 ESL, residential ESL, and commercial/industrial ESL.

<0.12 = Analyte lab RL is above its' Tier 1 ESL, residential ESL, and commercial/industrial ESL.

Figures



Legend

— Site (boundaries approximate)



Source: USGS Oakland West, CA Quadrangle Topographic Map, 2015



Site Location Map

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

148 9th Street, Oakland, California 94607

PN: 01-2021-500-004

Date: March 12, 2021

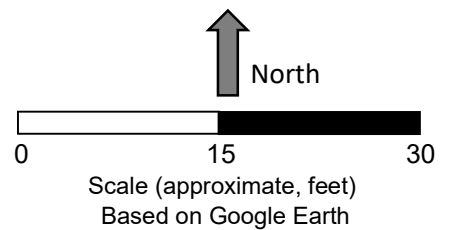
EP: Lita Freeman

Figure 1



Legend

- Site Boundary (approximate)
- SV-1 Sampling Location and Identification (approximate)



Site Plan with Sampling Locations

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

148 9th Street, Oakland, California

PN: 01-2021-500-004

Date: March 12, 2021

EP: Lita Freeman

Figure 2

Appendix A

Use of California Environmental Protection Agency,
Regional Water Quality Control Board-San Francisco Bay
Region Environmental Screening Levels

Environmental Screening Levels (ESLs) have been established by the California Environmental Protection Agency, Regional Water Quality Control Board-San Francisco Bay Region (SFBRWQCB, Environmental Screening Levels Tier 1 ESLs, January 2019 [Rev.2]). The Tier 1 ESLs are NOT regulatory cleanup standards. Use of the ESLs in general is intended to be entirely optional on the part of the regulated facility and subject to the approval of the case manager in the overseeing regulatory agency. The presence of a chemical at concentrations in excess of an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; this simply indicates that a potential for adverse risk may exist and that additional evaluation is warranted. Use of the ESLs as cleanup levels should be evaluated in view of the overall site investigation results and the cost/benefit of performing a more site-specific risk assessment.

Reliance on only the Tier 1 ESLs to identify potential environmental concerns may not be appropriate for some sites. Examples include sites that require a detailed discussion of potential risks to human health, sites where physical conditions substantially differ from those assumed in development of the ESLs (e.g., mine sites, landfills, etc., with high or low pH) and sites where impacts pose heightened threats to sensitive ecological habitats. The latter could include sites that are adjacent to wetlands, streams, rivers, lakes, ponds, marine shorelines, or sites that otherwise contain or border on areas where protected or endangered species may be present. Potential impacts to sediment are also not addressed. The need for a detailed ecological risk assessment should be evaluated on a site-by-site basis for areas where significant concerns may exist. Notification to the Natural Resource Trustee Agencies (including the state Department of Toxic Substances Control and Department of Fish and Game and the federal Fish and Wildlife Service, Department of the Interior and National Oceanic and Atmospheric Administration) may also be required, particularly if the release of a hazardous substance may impact surface waters.

The ESLs should not be used to determine when impacts at a site should be reported to a regulatory agency. All releases of hazardous substances to the environment should be reported to the appropriate regulatory agency in accordance with governing regulations. The lookup tables are updated on a regular basis, as needed, in order to reflect changes in the referenced sources as well as lessons gained from site investigations and field observations.

Appendix B

Site Photographs

Photographic Log
9th Street Property
148 9th Street
Oakland, California 94607
ERA Project No. 01-2021-500-004

Photograph: 1

Description:

Photo depicts view to the southwest across the Site.



Photograph: 2

Description:

Photo depicts view to the northwest across the Site.



Photographic Log
9th Street Property
148 9th Street
Oakland, California 94607
ERA Project No. 01-2021-500-004

Photograph: 3

Description:

Photo depicts drilling at sampling location SV-2 on the Site's central portion.



Photograph: 4

Description:

Photo depicts construction of soil vapor well at sampling location SV-1.



Photographic Log
9th Street Property
148 9th Street
Oakland, California 94607
ERA Project No. 01-2021-500-004

Photograph: 5

Description:

Photo depicts purging of temporary soil vapor well at sampling location SV-3.



Photograph: 6

Description:

Photo depicts Summa canister set up at sampling location SV-3 to collect soil vapor sample.



Appendix C

Field Data Sheets



Soil Gas Sampling Field Data Sheet

Soil Gas Sample Number: SV-1

Site ID: GeoTracker:	LOP:	Date: <u>2-20-21</u>
Project Name: <u>9th Street Property</u>	Weather/Air Temp: <u>Sunny, dry</u>	Other: _____
Project Location: <u>148 9th Street, Oakland</u>	Field Personnel: <u>LDF</u>	
Project Number: <u>01-2021-500-004</u>		
Recorderd By: <u>LDF</u>		

Sample Point Location: <u>North portion of site</u>	Set Time: <u>0950</u>
Sampling Depth: <u>3 feet</u>	
Construction: Hole Diameter: <u>1</u> inches	
Sand Pack Height: <u>12</u> inches	
Dry Bentonite Height: <u>6</u> inches	
Tubing Length: _____ feet	
Tubing Inner Diameter: <u>1/8</u> inches	

Nylaflow Tubing Chart		Teflon Tubing Chart	
Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter
1/4"	0.177"	1/4"	0.188"
1/8"	0.078"	1/8"	0.0625"

Sample Canister ID: <u>423</u>	Canister Volume (circle one): <u>1L</u> 6L
Sample Manifold ID: <u>A10062</u>	
Purge Canister ID: _____	Canister Volume (circle one): 1L 6L
Purge Manifold ID: _____	

Shut-In Test:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-28</u>	<u>1338</u>
Final Pressure:	<u>-28</u>	<u>1343</u>

Purge Test:

Purge Method (circle one): Purge Can Pump Syringe

Flow Rate: _____ mL/min

Purge Volume: 3PV = 154 cc ~~minutes~~

	Inches Hg	Time of Reading
Initial Pressure:	<u>-28</u>	<u>1339</u>
Final Pressure:	<u>-28</u>	<u>1343</u>

Soil Gas Sampling:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-28</u>	<u>1344</u>
Final Pressure:	<u>-5</u>	<u>1351</u>



Soil Gas Sampling Field Data Sheet

Soil Gas Sample Number: SV-2

Site ID: GeoTracker:	LOP:
Project Name: <u>9th STREET Property</u>	Date: <u>2-20-21</u>
Project Location: <u>148 9th STREET, OAKLAND</u>	Weather/Air Temp: <u>SUNNY, dry</u>
Project Number: <u>01-2021-500-004</u>	Other:
Recorderd By: <u>LOF</u>	Field Personnel: <u>LOF</u>

Sample Point Location: <u>CENTRAL PORTION OF SITE</u>	Set Time: <u>1005</u>																
Sampling Depth: <u>3 feet</u>																	
Construction: Hole Diameter: <u>1</u> inches																	
Sand Pack Height: <u>12</u> inches																	
Dry Bentonite Height: <u>6</u> inches																	
Tubing Length: _____ feet																	
Tubing Inner Diameter: <u>1/8</u> inches																	
	<table border="1"> <thead> <tr> <th colspan="2">Nylaflo Tubing Chart</th> <th colspan="2">Teflon Tubing Chart</th> </tr> <tr> <th>Outer Diameter</th> <th>Inner Diameter</th> <th>Outer Diameter</th> <th>Inner Diameter</th> </tr> </thead> <tbody> <tr> <td>1/4"</td> <td>0.177"</td> <td>1/4"</td> <td>0.188"</td> </tr> <tr> <td>1/8"</td> <td>0.078"</td> <td>1/8"</td> <td>0.0625"</td> </tr> </tbody> </table>	Nylaflo Tubing Chart		Teflon Tubing Chart		Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter	1/4"	0.177"	1/4"	0.188"	1/8"	0.078"	1/8"	0.0625"
Nylaflo Tubing Chart		Teflon Tubing Chart															
Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter														
1/4"	0.177"	1/4"	0.188"														
1/8"	0.078"	1/8"	0.0625"														

Sample Canister ID: <u>169</u>	Canister Volume (circle one): <u>1L</u> 6L
Sample Manifold ID: <u>A10142</u>	
Purge Canister ID: _____	Canister Volume (circle one): 1L 6L
Purge Manifold ID: _____	

Shut-In Test:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-30</u>	<u>1349</u>
Final Pressure:	<u>-30</u>	<u>1354</u>

Purge Test:

Purge Method (circle one): Purge Can Pump Syringe
 Flow Rate: _____ mL/min
 Purge Volume: 3PV = 154 cc ~~minutes~~

	Inches Hg	Time of Reading
Initial Pressure:	<u>-30</u>	<u>1349</u>
Final Pressure:	<u>-30</u>	<u>1354</u>

Soil Gas Sampling:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-30</u>	<u>1355</u>
Final Pressure:	<u>-5</u>	<u>1417</u>



Soil Gas Sampling Field Data Sheet

Soil Gas Sample Number: SV-3

Site ID: GeoTracker:	LOP:	Date: <u>2-20-21</u>
Project Name: <u>9th Street Property</u>	Weather/Air Temp: <u>Sunny, dry</u>	Other:
Project Location: <u>148 9th Street, Oakland</u>	Field Personnel: <u>LDF</u>	
Project Number: <u>01-2021-500-004</u>		
Recorderd By: <u>LDF</u>		

Sample Point Location: <u>Central portion of site</u>	Set Time: <u>1020</u>
Sampling Depth: <u>3 feet</u>	
Construction: Hole Diameter: <u>1</u> inches	
Sand Pack Height: <u>12</u> inches	
Dry Bentonite Height: <u>6</u> inches	
Tubing Length: _____ feet	
Tubing Inner Diameter: <u>1/8</u> inches	

Nylaflo Tubing Chart		Teflon Tubing Chart	
Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter
1/4"	0.177"	1/4"	0.188"
1/8"	0.078"	1/8"	0.0625"

Sample Canister ID: <u>254</u>	Canister Volume (circle one): <u>1L</u> 6L
Sample Manifold ID: <u>A 10009</u>	
Purge Canister ID: _____	Canister Volume (circle one): 1L 6L
Purge Manifold ID: _____	

Shut-In Test:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-30</u>	<u>1355</u>
Final Pressure:	<u>-30</u>	<u>1400</u>

Purge Test:

Purge Method (circle one): Purge Can Pump Syringe
 Flow Rate: _____ mL/min
 Purge Volume: 3PV = 154 cc ~~minutes~~

	Inches Hg	Time of Reading
Initial Pressure:	<u>-30</u>	<u>1355</u>
Final Pressure:	<u>-30</u>	<u>1400</u>

Soil Gas Sampling:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-30</u>	<u>1401</u>
Final Pressure:	<u>-5</u>	<u>1409</u>



Soil Gas Sampling Field Data Sheet

Soil Gas Sample Number: SV-4

Site ID: GeoTracker:	LOP:	Date: <u>2-20-21</u>
Project Name: <u>9th Street Property</u>	Weather/Air Temp: <u>SUNNY, dry</u>	Other:
Project Location: <u>148 9th Street, Oakland</u>	Field Personnel: <u>LOF</u>	
Project Number: <u>01-2021-500-004</u>		
Recorderd By: <u>LOF</u>		

Sample Point Location: <u>Southern Portion of Site</u>	Set Time: <u>1040</u>
Sampling Depth: <u>3 feet</u>	
Construction: Hole Diameter: <u>1</u> inches	
Sand Pack Height: <u>12</u> inches	
Dry Bentonite Height: <u>6</u> inches	
Tubing Length: _____ feet	
Tubing Inner Diameter: <u>1/8</u> inches	

Nylaflow Tubing Chart		Teflon Tubing Chart	
Outer Diameter	Inner Diameter	Outer Diameter	Inner Diameter
1/4"	0.177"	1/4"	0.188"
1/8"	0.078"	1/8"	0.0625"

Sample Canister ID: <u>406</u>
Sample Manifold ID: <u>A10005</u>
Purge Canister ID: _____
Purge Manifold ID: _____

Canister Volume (circle one): 1L 6L

Canister Volume (circle one): 1L 6L

Shut-In Test:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-24</u>	<u>1406</u>
Final Pressure:	<u>-24</u>	<u>1411</u>

Purge Test:

Purge Method (circle one): Purge Can Pump Syringe

Flow Rate: _____ mL/min

Purge Volume: 3PV = 154 cc _____ minutes

	Inches Hg	Time of Reading
Initial Pressure:		
Final Pressure:		

Soil Gas Sampling:

	Inches Hg	Time of Reading
Initial Pressure:	<u>-24</u>	<u>1412</u>
Final Pressure:	<u>-5.</u>	<u>1419</u>

Appendix D

Laboratory Analytical Report with
Chain-of-Custody Documentation



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 441193
Report Level: II
Report Date: 03/02/2021

Analytical Report *prepared for:*

Donovan Tom
Basics Environmental
655 12th St
Ste 126
Oakland, CA 94607

Location: 9th Street Property

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member



Sample Summary

Donovan Tom
Basics Environmental
655 12th St
Ste 126
Oakland, CA 94607

Lab Job #: 441193
Location: 9th Street Property
Date Received: 02/22/21

Sample ID	Lab ID	Collected	Matrix
SV-1	441193-001	02/20/21 13:51	Air
SV-2	441193-002	02/20/21 14:17	Air
SV-3	441193-003	02/20/21 14:09	Air
SV-4	441193-004	02/20/21 14:19	Air

Case Narrative

Basics Environmental
655 12th St
Ste 126
Oakland, CA 94607
Donovan Tom

Lab Job Number: 441193
Location: 9th Street Property
Date Received: 02/22/21

This data package contains sample and QC results for four air samples, requested for the above referenced project on 02/22/21. The samples were received intact.

Volatile Organics in Air by MS (EPA TO-15):

No analytical problems were encountered.



ENTHALPY ANALYTICAL

Air Chain of Custody Record

Lab No: 44193
Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard: X
5 Day:
3 Day:
2 Day:
1 Day:
Custom TAT:

Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710
Phone 510-486-0900

CUSTOMER INFORMATION

Company: Basics Environmental
Report To: Penina Tom / Lita Freeman
Email: BasicsEnvironmental@gmail.com / LitaFreeman@gmail.com
Address: 655 12th Street, #126
Phone: Oakland, CA 94607
Fax: 510-912-0140

PROJECT INFORMATION

Name: 9th Street Property
Number:
P.O. #:
Address: Oakland, CA
Global ID:
Sampled By: Lita Freeman

Special Instructions:

1,1-DFA Leak Check

Analysis Requested

Sample ID	Source (I) Indoor (A) Ambient (SV) Soil Vapor	Equipment Information			Sampling Information						TO15
		Canister ID	Size (6L or 1L)	Flow Controller ID	Sample Start Date	Sample Start Time	Vacuum Start ("Hg)	Sample End Date	Sample End Time	Vacuum End ("Hg)	
1 SV-1		423	1L	062	2/20/21	1344	-28	2/20/21	1351	-5	X
2 SV-2		169		142	2/20/21	1355	-30	2/20/21	1417	-5	X
3 SV-3		254		009	2/20/21	1401	-30	2/20/21	1409	-5	X
4 SV-4		406		005	2/20/21	1412	-24	2/20/21	1419	-5	X
5											
6											
7											
8											
9											
10											

	Signature	Print Name	Company / Title	Date / Time
¹ Relinquished By:	<i>Lita Freeman</i>	Lita D. Freeman	ERA / Geologist	2/20/21
¹ Received By:	<i>Miguel Coimbra</i>	Miguel Coimbra	EA	2/22/21 1130
² Relinquished By:	<i>Miguel Coimbra</i>	Miguel Coimbra	EA	2/22/21 1330
² Received By:	<i>Maree Cunn</i>	Maree Cunn	EA	2/23/21 1200
³ Relinquished By:				
³ Received By:				



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: BASICS ENV. Project: _____
 Date Received: 2/23/21 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? _____ No (skip section 2) Sample Temp (°C) (No Cooler): N/A
 Sample Temp (°C), One from each cooler: #1: _____ #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: Ambient

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>		
Are sample IDs present?	<input checked="" type="checkbox"/>		
Are sampling dates & times present?	<input checked="" type="checkbox"/>		
Is a relinquished signature present?	<input checked="" type="checkbox"/>		
Are the tests required clearly indicated on the COC?	<input checked="" type="checkbox"/>		
Are custody seals present?		<input checked="" type="checkbox"/>	
If custody seals are present, were they intact?			<input checked="" type="checkbox"/>
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			<input checked="" type="checkbox"/>
Did all samples arrive intact? If no, indicate in Section 4 below.	<input checked="" type="checkbox"/>		
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were the samples collected in the correct containers for the required tests?	<input checked="" type="checkbox"/>		
Are the containers labeled with the correct preservatives?			<input checked="" type="checkbox"/>
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			<input checked="" type="checkbox"/>
Was a sufficient amount of sample submitted for the requested tests?	<input checked="" type="checkbox"/>		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: Chris Chen Date: 2/23/21

Analysis Results for 441193

Donovan Tom
 Basics Environmental
 655 12th St
 Ste 126
 Oakland, CA 94607

Lab Job #: 441193
 Location: 9th Street Property
 Date Received: 02/22/21

Sample ID: SV-1 Lab ID: 441193-001 Collected: 02/20/21 13:51
Matrix: Air

441193-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
1,4-Dioxane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,4-Dioxane	ND		ug/m3	2.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Propylene	ND		ppbv	1.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Propylene	ND		ug/m3	2.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Freon 12	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Freon 12	ND		ug/m3	3.0	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Freon 114	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Freon 114	ND		ug/m3	4.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chloromethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chloromethane	ND		ug/m3	1.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Vinyl Chloride	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Vinyl Chloride	ND		ug/m3	1.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,3-Butadiene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,3-Butadiene	ND		ug/m3	1.3	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Bromomethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Bromomethane	ND		ug/m3	2.3	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chloroethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chloroethane	ND		ug/m3	1.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Trichlorofluoromethane	ND		ppbv	1.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Trichlorofluoromethane	ND		ug/m3	8.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Freon 113	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Freon 113	ND		ug/m3	4.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Acetone	26		ppbv	3.0	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Acetone	62		ug/m3	7.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Carbon Disulfide	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Carbon Disulfide	ND		ug/m3	1.9	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Isopropanol (IPA)	55		ppbv	3.0	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Isopropanol (IPA)	130		ug/m3	7.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Methylene Chloride	ND		ppbv	1.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Methylene Chloride	ND		ug/m3	5.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
trans-1,2-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
trans-1,2-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO

Analysis Results for 441193

441193-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
MTBE	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
MTBE	ND		ug/m3	2.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
n-Hexane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
n-Hexane	ND		ug/m3	2.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1-Dichloroethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1-Dichloroethane	ND		ug/m3	2.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Vinyl Acetate	ND		ppbv	3.0	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Vinyl Acetate	ND		ug/m3	11	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
cis-1,2-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
cis-1,2-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
2-Butanone	3.0		ppbv	3.0	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
2-Butanone	9.0		ug/m3	8.8	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Ethyl Acetate	ND		ppbv	1.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Ethyl Acetate	ND		ug/m3	4.3	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chloroform	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chloroform	ND		ug/m3	2.9	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1,1-Trichloroethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1,1-Trichloroethane	ND		ug/m3	3.3	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Cyclohexane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Cyclohexane	ND		ug/m3	2.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Carbon Tetrachloride	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Carbon Tetrachloride	ND		ug/m3	3.8	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Benzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Benzene	ND		ug/m3	1.9	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dichloroethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dichloroethane	ND		ug/m3	2.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
n-Heptane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
n-Heptane	ND		ug/m3	2.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Trichloroethene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Trichloroethene	ND		ug/m3	3.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dichloropropane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dichloropropane	ND		ug/m3	2.8	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Bromodichloromethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Bromodichloromethane	ND		ug/m3	4.0	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
cis-1,3-Dichloropropene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
cis-1,3-Dichloropropene	ND		ug/m3	2.7	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
4-Methyl-2-Pentanone	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
4-Methyl-2-Pentanone	ND		ug/m3	2.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Toluene	0.76		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Toluene	2.9		ug/m3	2.3	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
trans-1,3-Dichloropropene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
trans-1,3-Dichloropropene	ND		ug/m3	2.7	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1,2-Trichloroethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1,2-Trichloroethane	ND		ug/m3	3.3	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Tetrachloroethene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Tetrachloroethene	ND		ug/m3	4.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO

Analysis Results for 441193

441193-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2-Hexanone	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
2-Hexanone	ND		ug/m3	2.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Dibromochloromethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Dibromochloromethane	ND		ug/m3	5.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dibromoethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dibromoethane	ND		ug/m3	4.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Chlorobenzene	ND		ug/m3	2.8	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Ethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Ethylbenzene	ND		ug/m3	2.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
m,p-Xylenes	1.5		ppbv	1.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
m,p-Xylenes	6.4		ug/m3	5.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
o-Xylene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
o-Xylene	ND		ug/m3	2.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Styrene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Styrene	ND		ug/m3	2.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Bromoform	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Bromoform	ND		ug/m3	6.2	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1,2,2-Tetrachloroethane	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,1,2,2-Tetrachloroethane	ND		ug/m3	4.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
4-Ethyltoluene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
4-Ethyltoluene	ND		ug/m3	2.9	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,3,5-Trimethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,3,5-Trimethylbenzene	ND		ug/m3	2.9	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2,4-Trimethylbenzene	1.3		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2,4-Trimethylbenzene	6.2		ug/m3	2.9	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,3-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,3-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,4-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,4-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Benzyl chloride	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Benzyl chloride	ND		ug/m3	3.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2,4-Trichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
1,2,4-Trichlorobenzene	ND		ug/m3	4.5	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Hexachlorobutadiene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Hexachlorobutadiene	ND		ug/m3	6.4	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Naphthalene	ND		ppbv	0.60	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
Naphthalene	ND		ug/m3	3.1	3	261912	02/25/21 05:50	02/25/21 05:50	GVO
TIC:1,1-Difluoroethane	ND				3	261912	02/25/21 05:50	02/25/21 05:50	
Surrogates				Limits					
Bromofluorobenzene	94%		%REC	60-140	3	261912	02/25/21 05:50	02/25/21 05:50	GVO

Analysis Results for 441193

Sample ID: SV-2	Lab ID: 441193-002	Collected: 02/20/21 14:17
Matrix: Air		

441193-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
1,4-Dioxane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,4-Dioxane	ND		ug/m3	11	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Propylene	ND		ppbv	7.5	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Propylene	ND		ug/m3	13	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Freon 12	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Freon 12	ND		ug/m3	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Freon 114	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Freon 114	ND		ug/m3	21	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Chloromethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Chloromethane	ND		ug/m3	6.2	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Vinyl Chloride	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Vinyl Chloride	ND		ug/m3	7.7	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,3-Butadiene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,3-Butadiene	ND		ug/m3	6.6	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Bromomethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Bromomethane	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Chloroethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Chloroethane	ND		ug/m3	7.9	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Trichlorofluoromethane	ND		ppbv	7.5	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Trichlorofluoromethane	ND		ug/m3	42	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1-Dichloroethene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1-Dichloroethene	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Freon 113	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Freon 113	ND		ug/m3	23	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Acetone	20		ppbv	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Acetone	47		ug/m3	36	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Carbon Disulfide	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Carbon Disulfide	ND		ug/m3	9.3	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Isopropanol (IPA)	310		ppbv	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Isopropanol (IPA)	760		ug/m3	37	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Methylene Chloride	ND		ppbv	7.5	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Methylene Chloride	ND		ug/m3	26	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
trans-1,2-Dichloroethene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
trans-1,2-Dichloroethene	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
MTBE	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
MTBE	ND		ug/m3	11	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
n-Hexane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
n-Hexane	ND		ug/m3	11	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1-Dichloroethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1-Dichloroethane	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO

Analysis Results for 441193

441193-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Vinyl Acetate	ND		ppbv	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Vinyl Acetate	ND		ug/m3	53	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
cis-1,2-Dichloroethene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
cis-1,2-Dichloroethene	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
2-Butanone	ND		ppbv	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
2-Butanone	ND		ug/m3	44	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Ethyl Acetate	ND		ppbv	6.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Ethyl Acetate	ND		ug/m3	22	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Chloroform	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Chloroform	ND		ug/m3	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1,1-Trichloroethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1,1-Trichloroethane	ND		ug/m3	16	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Cyclohexane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Cyclohexane	ND		ug/m3	10	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Carbon Tetrachloride	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Carbon Tetrachloride	ND		ug/m3	19	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Benzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Benzene	ND		ug/m3	9.6	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dichloroethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dichloroethane	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
n-Heptane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
n-Heptane	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Trichloroethene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Trichloroethene	ND		ug/m3	16	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dichloropropane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dichloropropane	ND		ug/m3	14	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Bromodichloromethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Bromodichloromethane	ND		ug/m3	20	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
cis-1,3-Dichloropropene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
cis-1,3-Dichloropropene	ND		ug/m3	14	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
4-Methyl-2-Pentanone	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
4-Methyl-2-Pentanone	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Toluene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Toluene	ND		ug/m3	11	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
trans-1,3-Dichloropropene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
trans-1,3-Dichloropropene	ND		ug/m3	14	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1,2-Trichloroethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1,2-Trichloroethane	ND		ug/m3	16	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Tetrachloroethene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Tetrachloroethene	ND		ug/m3	20	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
2-Hexanone	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
2-Hexanone	ND		ug/m3	12	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Dibromochloromethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Dibromochloromethane	ND		ug/m3	26	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dibromoethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dibromoethane	ND		ug/m3	23	15	261912	02/25/21 06:35	02/25/21 06:35	GVO

Analysis Results for 441193

441193-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Chlorobenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Chlorobenzene	ND		ug/m3	14	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Ethylbenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Ethylbenzene	ND		ug/m3	13	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
m,p-Xylenes	ND		ppbv	6.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
m,p-Xylenes	ND		ug/m3	26	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
o-Xylene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
o-Xylene	ND		ug/m3	13	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Styrene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Styrene	ND		ug/m3	13	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Bromoform	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Bromoform	ND		ug/m3	31	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1,2,2-Tetrachloroethane	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,1,2,2-Tetrachloroethane	ND		ug/m3	21	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
4-Ethyltoluene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
4-Ethyltoluene	ND		ug/m3	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,3,5-Trimethylbenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,3,5-Trimethylbenzene	ND		ug/m3	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2,4-Trimethylbenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2,4-Trimethylbenzene	ND		ug/m3	15	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,3-Dichlorobenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,3-Dichlorobenzene	ND		ug/m3	18	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,4-Dichlorobenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,4-Dichlorobenzene	ND		ug/m3	18	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Benzyl chloride	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Benzyl chloride	ND		ug/m3	16	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dichlorobenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2-Dichlorobenzene	ND		ug/m3	18	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2,4-Trichlorobenzene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
1,2,4-Trichlorobenzene	ND		ug/m3	22	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Hexachlorobutadiene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Hexachlorobutadiene	ND		ug/m3	32	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Naphthalene	ND		ppbv	3.0	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
Naphthalene	ND		ug/m3	16	15	261912	02/25/21 06:35	02/25/21 06:35	GVO
TIC:1,1-Difluoroethane	ND				15	261912	02/25/21 06:35	02/25/21 06:35	
Surrogates				Limits					
Bromofluorobenzene	93%		%REC	60-140	15	261912	02/25/21 06:35	02/25/21 06:35	GVO

Analysis Results for 441193

Sample ID: SV-3

Lab ID: 441193-003

Collected: 02/20/21 14:09

Matrix: Air

441193-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
1,4-Dioxane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,4-Dioxane	ND		ug/m3	2.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Propylene	ND		ppbv	1.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Propylene	ND		ug/m3	2.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Freon 12	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Freon 12	ND		ug/m3	3.0	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Freon 114	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Freon 114	ND		ug/m3	4.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Chloromethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Chloromethane	ND		ug/m3	1.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Vinyl Chloride	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Vinyl Chloride	ND		ug/m3	1.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,3-Butadiene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,3-Butadiene	ND		ug/m3	1.3	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Bromomethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Bromomethane	ND		ug/m3	2.3	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Chloroethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Chloroethane	ND		ug/m3	1.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Trichlorofluoromethane	ND		ppbv	1.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Trichlorofluoromethane	ND		ug/m3	8.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Freon 113	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Freon 113	ND		ug/m3	4.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Acetone	9.2		ppbv	3.0	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Acetone	22		ug/m3	7.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Carbon Disulfide	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Carbon Disulfide	ND		ug/m3	1.9	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Isopropanol (IPA)	67		ppbv	3.0	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Isopropanol (IPA)	160		ug/m3	7.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Methylene Chloride	ND		ppbv	1.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Methylene Chloride	ND		ug/m3	5.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
trans-1,2-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
trans-1,2-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
MTBE	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
MTBE	ND		ug/m3	2.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
n-Hexane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
n-Hexane	ND		ug/m3	2.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1-Dichloroethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1-Dichloroethane	ND		ug/m3	2.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO

Analysis Results for 441193

441193-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Vinyl Acetate	ND		ppbv	3.0	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Vinyl Acetate	ND		ug/m3	11	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
cis-1,2-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
cis-1,2-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
2-Butanone	ND		ppbv	3.0	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
2-Butanone	ND		ug/m3	8.8	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Ethyl Acetate	ND		ppbv	1.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Ethyl Acetate	ND		ug/m3	4.3	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Chloroform	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Chloroform	ND		ug/m3	2.9	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1,1-Trichloroethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1,1-Trichloroethane	ND		ug/m3	3.3	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Cyclohexane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Cyclohexane	ND		ug/m3	2.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Carbon Tetrachloride	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Carbon Tetrachloride	ND		ug/m3	3.8	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Benzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Benzene	ND		ug/m3	1.9	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dichloroethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dichloroethane	ND		ug/m3	2.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
n-Heptane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
n-Heptane	ND		ug/m3	2.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Trichloroethene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Trichloroethene	ND		ug/m3	3.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dichloropropane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dichloropropane	ND		ug/m3	2.8	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Bromodichloromethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Bromodichloromethane	ND		ug/m3	4.0	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
cis-1,3-Dichloropropene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
cis-1,3-Dichloropropene	ND		ug/m3	2.7	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
4-Methyl-2-Pentanone	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
4-Methyl-2-Pentanone	ND		ug/m3	2.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Toluene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Toluene	ND		ug/m3	2.3	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
trans-1,3-Dichloropropene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
trans-1,3-Dichloropropene	ND		ug/m3	2.7	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1,2-Trichloroethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1,2-Trichloroethane	ND		ug/m3	3.3	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Tetrachloroethene	3.9		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Tetrachloroethene	26		ug/m3	4.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
2-Hexanone	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
2-Hexanone	ND		ug/m3	2.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Dibromochloromethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Dibromochloromethane	ND		ug/m3	5.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dibromoethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dibromoethane	ND		ug/m3	4.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO

Analysis Results for 441193

441193-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Chlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Chlorobenzene	ND		ug/m3	2.8	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Ethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Ethylbenzene	ND		ug/m3	2.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
m,p-Xylenes	ND		ppbv	1.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
m,p-Xylenes	ND		ug/m3	5.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
o-Xylene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
o-Xylene	ND		ug/m3	2.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Styrene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Styrene	ND		ug/m3	2.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Bromoform	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Bromoform	ND		ug/m3	6.2	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1,2,2-Tetrachloroethane	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,1,2,2-Tetrachloroethane	ND		ug/m3	4.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
4-Ethyltoluene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
4-Ethyltoluene	ND		ug/m3	2.9	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,3,5-Trimethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,3,5-Trimethylbenzene	ND		ug/m3	2.9	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2,4-Trimethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2,4-Trimethylbenzene	ND		ug/m3	2.9	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,3-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,3-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,4-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,4-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Benzyl chloride	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Benzyl chloride	ND		ug/m3	3.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2,4-Trichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
1,2,4-Trichlorobenzene	ND		ug/m3	4.5	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Hexachlorobutadiene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Hexachlorobutadiene	ND		ug/m3	6.4	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Naphthalene	ND		ppbv	0.60	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
Naphthalene	ND		ug/m3	3.1	3	261912	02/25/21 07:23	02/25/21 07:23	GVO
TIC:1,1-Difluoroethane	ND				3	261912	02/25/21 07:23	02/25/21 07:23	
Surrogates				Limits					
Bromofluorobenzene	95%		%REC	60-140	3	261912	02/25/21 07:23	02/25/21 07:23	GVO

Analysis Results for 441193

Sample ID: SV-4

Lab ID: 441193-004

Collected: 02/20/21 14:19

Matrix: Air

441193-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
1,4-Dioxane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,4-Dioxane	ND		ug/m3	2.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Propylene	ND		ppbv	1.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Propylene	ND		ug/m3	2.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Freon 12	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Freon 12	ND		ug/m3	3.0	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Freon 114	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Freon 114	ND		ug/m3	4.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Chloromethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Chloromethane	ND		ug/m3	1.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Vinyl Chloride	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Vinyl Chloride	ND		ug/m3	1.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,3-Butadiene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,3-Butadiene	ND		ug/m3	1.3	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Bromomethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Bromomethane	ND		ug/m3	2.3	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Chloroethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Chloroethane	ND		ug/m3	1.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Trichlorofluoromethane	ND		ppbv	1.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Trichlorofluoromethane	ND		ug/m3	8.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Freon 113	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Freon 113	ND		ug/m3	4.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Acetone	10		ppbv	3.0	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Acetone	25		ug/m3	7.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Carbon Disulfide	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Carbon Disulfide	ND		ug/m3	1.9	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Isopropanol (IPA)	88		ppbv	3.0	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Isopropanol (IPA)	220		ug/m3	7.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Methylene Chloride	ND		ppbv	1.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Methylene Chloride	ND		ug/m3	5.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
trans-1,2-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
trans-1,2-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
MTBE	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
MTBE	ND		ug/m3	2.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
n-Hexane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
n-Hexane	ND		ug/m3	2.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1-Dichloroethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1-Dichloroethane	ND		ug/m3	2.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO

Analysis Results for 441193

441193-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Vinyl Acetate	ND		ppbv	3.0	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Vinyl Acetate	ND		ug/m3	11	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
cis-1,2-Dichloroethene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
cis-1,2-Dichloroethene	ND		ug/m3	2.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
2-Butanone	ND		ppbv	3.0	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
2-Butanone	ND		ug/m3	8.8	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Ethyl Acetate	3.5		ppbv	1.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Ethyl Acetate	12		ug/m3	4.3	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Chloroform	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Chloroform	ND		ug/m3	2.9	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1,1-Trichloroethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1,1-Trichloroethane	ND		ug/m3	3.3	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Cyclohexane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Cyclohexane	ND		ug/m3	2.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Carbon Tetrachloride	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Carbon Tetrachloride	ND		ug/m3	3.8	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Benzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Benzene	ND		ug/m3	1.9	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dichloroethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dichloroethane	ND		ug/m3	2.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
n-Heptane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
n-Heptane	ND		ug/m3	2.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Trichloroethene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Trichloroethene	ND		ug/m3	3.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dichloropropane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dichloropropane	ND		ug/m3	2.8	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Bromodichloromethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Bromodichloromethane	ND		ug/m3	4.0	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
cis-1,3-Dichloropropene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
cis-1,3-Dichloropropene	ND		ug/m3	2.7	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
4-Methyl-2-Pentanone	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
4-Methyl-2-Pentanone	ND		ug/m3	2.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Toluene	0.72		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Toluene	2.7		ug/m3	2.3	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
trans-1,3-Dichloropropene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
trans-1,3-Dichloropropene	ND		ug/m3	2.7	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1,2-Trichloroethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1,2-Trichloroethane	ND		ug/m3	3.3	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Tetrachloroethene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Tetrachloroethene	ND		ug/m3	4.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
2-Hexanone	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
2-Hexanone	ND		ug/m3	2.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Dibromochloromethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Dibromochloromethane	ND		ug/m3	5.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dibromoethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dibromoethane	ND		ug/m3	4.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO

Analysis Results for 441193

441193-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Chlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Chlorobenzene	ND		ug/m3	2.8	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Ethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Ethylbenzene	ND		ug/m3	2.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
m,p-Xylenes	ND		ppbv	1.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
m,p-Xylenes	ND		ug/m3	5.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
o-Xylene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
o-Xylene	ND		ug/m3	2.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Styrene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Styrene	ND		ug/m3	2.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Bromoform	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Bromoform	ND		ug/m3	6.2	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1,2,2-Tetrachloroethane	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,1,2,2-Tetrachloroethane	ND		ug/m3	4.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
4-Ethyltoluene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
4-Ethyltoluene	ND		ug/m3	2.9	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,3,5-Trimethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,3,5-Trimethylbenzene	ND		ug/m3	2.9	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2,4-Trimethylbenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2,4-Trimethylbenzene	ND		ug/m3	2.9	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,3-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,3-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,4-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,4-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Benzyl chloride	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Benzyl chloride	ND		ug/m3	3.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2-Dichlorobenzene	ND		ug/m3	3.6	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2,4-Trichlorobenzene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
1,2,4-Trichlorobenzene	ND		ug/m3	4.5	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Hexachlorobutadiene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Hexachlorobutadiene	ND		ug/m3	6.4	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Naphthalene	ND		ppbv	0.60	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
Naphthalene	ND		ug/m3	3.1	3	261912	02/25/21 08:11	02/25/21 08:11	GVO
TIC:1,1-Difluoroethane	ND				3	261912	02/25/21 08:11	02/25/21 08:11	
Surrogates				Limits					
Bromofluorobenzene	91%		%REC	60-140	3	261912	02/25/21 08:11	02/25/21 08:11	GVO

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC910269	Batch: 261912
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC910269 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,4-Dioxane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Propylene	ND		ppbv	0.50	02/24/21 14:07	02/24/21 14:07
Freon 12	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Freon 114	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Chloromethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Vinyl Chloride	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,3-Butadiene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Bromomethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Chloroethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Trichlorofluoromethane	ND		ppbv	0.50	02/24/21 14:07	02/24/21 14:07
1,1-Dichloroethene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Freon 113	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Acetone	ND		ppbv	1.0	02/24/21 14:07	02/24/21 14:07
Carbon Disulfide	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Isopropanol (IPA)	ND		ppbv	1.0	02/24/21 14:07	02/24/21 14:07
Methylene Chloride	ND		ppbv	0.50	02/24/21 14:07	02/24/21 14:07
trans-1,2-Dichloroethene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
MTBE	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
n-Hexane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,1-Dichloroethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Vinyl Acetate	ND		ppbv	1.0	02/24/21 14:07	02/24/21 14:07
cis-1,2-Dichloroethene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
2-Butanone	ND		ppbv	1.0	02/24/21 14:07	02/24/21 14:07
Ethyl Acetate	ND		ppbv	0.40	02/24/21 14:07	02/24/21 14:07
Chloroform	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,1,1-Trichloroethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Cyclohexane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Carbon Tetrachloride	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Benzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,2-Dichloroethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
n-Heptane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Trichloroethene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,2-Dichloropropane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Bromodichloromethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
cis-1,3-Dichloropropene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
4-Methyl-2-Pentanone	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Toluene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
trans-1,3-Dichloropropene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,1,2-Trichloroethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Tetrachloroethene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
2-Hexanone	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Dibromochloromethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07

Batch QC

QC910269 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,2-Dibromoethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Chlorobenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Ethylbenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
m,p-Xylenes	ND		ppbv	0.40	02/24/21 14:07	02/24/21 14:07
o-Xylene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Styrene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Bromoform	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,1,2,2-Tetrachloroethane	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
4-Ethyltoluene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,3,5-Trimethylbenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,2,4-Trimethylbenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,3-Dichlorobenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,4-Dichlorobenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Benzyl chloride	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,2-Dichlorobenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
1,2,4-Trichlorobenzene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Hexachlorobutadiene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
Naphthalene	ND		ppbv	0.20	02/24/21 14:07	02/24/21 14:07
TIC:1,1-Difluoroethane	ND				02/24/21 14:07	02/24/21 14:07
Surrogates				Limits		
Bromofluorobenzene	95%		%REC	60-140	02/24/21 14:07	02/24/21 14:07

Batch QC

Type: Lab Control Sample	Lab ID: QC910270	Batch: 261912
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC910270 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,4-Dioxane	8.115	10.00	ppbv	81%		70-130
Propylene	7.912	10.00	ppbv	79%		70-130
Freon 12	8.794	10.00	ppbv	88%		70-130
Freon 114	9.292	10.00	ppbv	93%		70-130
Chloromethane	9.044	10.00	ppbv	90%		70-130
Vinyl Chloride	9.100	10.00	ppbv	91%		70-130
1,3-Butadiene	8.816	10.00	ppbv	88%		70-130
Bromomethane	9.146	10.00	ppbv	91%		70-130
Chloroethane	8.795	10.00	ppbv	88%		70-130
Trichlorofluoromethane	7.873	10.00	ppbv	79%		70-130
1,1-Dichloroethene	7.769	10.00	ppbv	78%		70-130
Freon 113	7.963	10.00	ppbv	80%		70-130
Acetone	8.008	10.00	ppbv	80%		70-130
Carbon Disulfide	8.147	10.00	ppbv	81%		70-130
Isopropanol (IPA)	7.752	10.00	ppbv	78%		70-130
Methylene Chloride	8.020	10.00	ppbv	80%		70-130
trans-1,2-Dichloroethene	7.656	10.00	ppbv	77%		70-130
MTBE	7.803	10.00	ppbv	78%		70-130
n-Hexane	8.203	10.00	ppbv	82%		70-130
1,1-Dichloroethane	7.916	10.00	ppbv	79%		70-130
Vinyl Acetate	7.351	10.00	ppbv	74%		70-130
cis-1,2-Dichloroethene	7.864	10.00	ppbv	79%		70-130
2-Butanone	8.604	10.00	ppbv	86%		70-130
Ethyl Acetate	8.232	10.00	ppbv	82%		70-130
Chloroform	8.000	10.00	ppbv	80%		70-130
1,1,1-Trichloroethane	7.919	10.00	ppbv	79%		70-130
Cyclohexane	8.107	10.00	ppbv	81%		70-130
Carbon Tetrachloride	8.104	10.00	ppbv	81%		70-130
Benzene	8.067	10.00	ppbv	81%		70-130
1,2-Dichloroethane	7.919	10.00	ppbv	79%		70-130
n-Heptane	8.223	10.00	ppbv	82%		70-130
Trichloroethene	7.726	10.00	ppbv	77%		70-130
1,2-Dichloropropane	7.946	10.00	ppbv	79%		70-130
Bromodichloromethane	7.642	10.00	ppbv	76%		70-130
cis-1,3-Dichloropropene	8.357	10.00	ppbv	84%		70-130
4-Methyl-2-Pentanone	8.767	10.00	ppbv	88%		70-130
Toluene	8.371	10.00	ppbv	84%		70-130
trans-1,3-Dichloropropene	8.190	10.00	ppbv	82%		70-130
1,1,2-Trichloroethane	8.246	10.00	ppbv	82%		70-130
Tetrachloroethene	8.294	10.00	ppbv	83%		70-130
2-Hexanone	8.463	10.00	ppbv	85%		70-130
Dibromochloromethane	8.364	10.00	ppbv	84%		70-130

Batch QC

QC910270 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,2-Dibromoethane	8.505	10.00	ppbv	85%		70-130
Chlorobenzene	7.623	10.00	ppbv	76%		70-130
Ethylbenzene	7.834	10.00	ppbv	78%		70-130
m,p-Xylenes	17.03	20.00	ppbv	85%		70-130
o-Xylene	8.416	10.00	ppbv	84%		70-130
Styrene	8.190	10.00	ppbv	82%		70-130
Bromoform	9.108	10.00	ppbv	91%		70-130
1,1,2,2-Tetrachloroethane	8.520	10.00	ppbv	85%		70-130
4-Ethyltoluene	8.473	10.00	ppbv	85%		70-130
1,3,5-Trimethylbenzene	8.470	10.00	ppbv	85%		70-130
1,2,4-Trimethylbenzene	8.575	10.00	ppbv	86%		70-130
1,3-Dichlorobenzene	8.856	10.00	ppbv	89%		70-130
1,4-Dichlorobenzene	8.717	10.00	ppbv	87%		70-130
Benzyl chloride	9.968	10.00	ppbv	100%		70-130
1,2-Dichlorobenzene	8.386	10.00	ppbv	84%		70-130
1,2,4-Trichlorobenzene	9.267	10.00	ppbv	93%		70-130
Hexachlorobutadiene	9.237	10.00	ppbv	92%		70-130
Naphthalene	8.710	10.00	ppbv	87%		70-130
Surrogates						
Bromofluorobenzene	6.316	6.250	ppbv	101%		60-140

Batch QC

Type: Sample Duplicate	Lab ID: QC910271	Batch: 261912
Matrix (Source ID): Air (441154-001)	Method: EPA TO-15	Prep Method: METHOD

QC910271 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
1,4-Dioxane	ND	ND	ppbv			30	3.8
Propylene	6.507	ND	ppbv		0	30	3.8
Freon 12	77.87	77.90	ppbv		0	30	3.8
Freon 114	ND	ND	ppbv			30	3.8
Chloromethane	ND	ND	ppbv			30	3.8
Vinyl Chloride	ND	ND	ppbv			30	3.8
1,3-Butadiene	ND	ND	ppbv			30	3.8
Bromomethane	ND	ND	ppbv			30	3.8
Chloroethane	ND	ND	ppbv			30	3.8
Trichlorofluoromethane	ND	ND	ppbv			30	3.8
1,1-Dichloroethene	ND	ND	ppbv			30	3.8
Freon 113	ND	ND	ppbv			30	3.8
Acetone	13.29	13.24	ppbv		0	30	3.8
Carbon Disulfide	ND	ND	ppbv			30	3.8
Isopropanol (IPA)	ND	ND	ppbv			30	3.8
Methylene Chloride	2.972	2.917	ppbv		2	30	3.8
trans-1,2-Dichloroethene	1.857	1.833	ppbv		1	30	3.8
MTBE	ND	ND	ppbv			30	3.8
n-Hexane	ND	ND	ppbv			30	3.8
1,1-Dichloroethane	ND	ND	ppbv			30	3.8
Vinyl Acetate	ND	ND	ppbv			30	3.8
cis-1,2-Dichloroethene	19.38	19.49	ppbv		1	30	3.8
2-Butanone	ND	ND	ppbv			30	3.8
Ethyl Acetate	ND	ND	ppbv			30	3.8
Chloroform	ND	ND	ppbv			30	3.8
1,1,1-Trichloroethane	ND	ND	ppbv			30	3.8
Cyclohexane	ND	ND	ppbv			30	3.8
Carbon Tetrachloride	ND	ND	ppbv			30	3.8
Benzene	ND	ND	ppbv			30	3.8
1,2-Dichloroethane	ND	ND	ppbv			30	3.8
n-Heptane	ND	ND	ppbv			30	3.8
Trichloroethene	8.733	8.550	ppbv		2	30	3.8
1,2-Dichloropropane	ND	ND	ppbv			30	3.8
Bromodichloromethane	ND	ND	ppbv			30	3.8
cis-1,3-Dichloropropene	ND	ND	ppbv			30	3.8
4-Methyl-2-Pentanone	ND	ND	ppbv			30	3.8
Toluene	ND	ND	ppbv			30	3.8
trans-1,3-Dichloropropene	ND	ND	ppbv			30	3.8
1,1,2-Trichloroethane	ND	ND	ppbv			30	3.8
Tetrachloroethene	12.88	12.65	ppbv		2	30	3.8

Batch QC

QC910271 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
2-Hexanone	ND	ND	ppbv			30	3.8
Dibromochloromethane	ND	ND	ppbv			30	3.8
1,2-Dibromoethane	ND	ND	ppbv			30	3.8
Chlorobenzene	ND	ND	ppbv			30	3.8
Ethylbenzene	ND	ND	ppbv			30	3.8
m,p-Xylenes	ND	ND	ppbv			30	3.8
o-Xylene	ND	ND	ppbv			30	3.8
Styrene	ND	ND	ppbv			30	3.8
Bromoform	ND	ND	ppbv			30	3.8
1,1,2,2-Tetrachloroethane	ND	ND	ppbv			30	3.8
4-Ethyltoluene	ND	ND	ppbv			30	3.8
1,3,5-Trimethylbenzene	ND	ND	ppbv			30	3.8
1,2,4-Trimethylbenzene	ND	ND	ppbv			30	3.8
1,3-Dichlorobenzene	ND	ND	ppbv			30	3.8
1,4-Dichlorobenzene	ND	ND	ppbv			30	3.8
Benzyl chloride	ND	ND	ppbv			30	3.8
1,2-Dichlorobenzene	ND	ND	ppbv			30	3.8
1,2,4-Trichlorobenzene	ND	ND	ppbv			30	3.8
Hexachlorobutadiene	ND	ND	ppbv			30	3.8
Naphthalene	ND	ND	ppbv			30	3.8
Surrogates							
Bromofluorobenzene	94%		%REC				3.8

ND Not Detected