

REPORT ON
VAPOR INTRUSION INVESTIGATION REPORT
WINTER 2022 SAMPLING EVENT
CARRIER
6304 THOMPSON ROAD
SYRACUSE, NEW YORK
CORRECTIVE ACTION ORDER INDEX CO 7-20051118-4
SITE REGISTRY NO. 734043

by
Haley & Aldrich of New York
Rochester, New York

for
New York State Department of Environmental Conservation
Syracuse, New York

File No. 0201049-004
February 2023





HALEY & ALDRICH OF NEW YORK
200 Town Centre Drive
Suite 2
Rochester, NY 14623
585.359.9000

16 February 2023
File No. 0201049-004

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 7
615 Erie Boulevard West
Syracuse, New York 13204-2400

Attention: Michael Belveg

Subject: Vapor Intrusion Investigation Report
Winter 2022 Sampling Event
Carrier
6304 Thompson Road
Syracuse, New York

Ladies and Gentlemen:

On behalf of Carrier, Haley & Aldrich of New York (Haley & Aldrich) is submitting the attached Vapor Intrusion Investigation Report for the winter 2022 sampling event performed during December 2022.

Please call the undersigned at 913.693.1905 if you have any questions or require additional information.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK

A handwritten signature in black ink, appearing to read 'Jennifer Kingston'.

Jennifer Kingston
Senior Project Manager

A handwritten signature in black ink, appearing to read 'Richard J. Rago'.

Richard J. Rago
Technical Expert

A handwritten signature in black ink, appearing to read 'Glenn M. White'.

Glenn M. White, CHMM
Associate

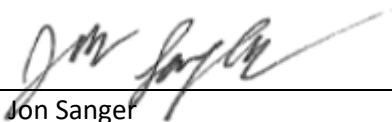
Enclosures

c: Carrier; Attn: Don Sorbello
AECOM; Attn: Peter Hollatz

SIGNATURE PAGE FOR
REPORT ON
VAPOR INTRUSION INVESTIGATION REPORT
WINTER 2022 SAMPLING EVENT
CARRIER
6304 THOMPSON ROAD
SYRACUSE, NEW YORK
CORRECTIVE ACTION ORDER INDEX CO 7-20051118-4
SITE REGISTRY NO. 734043

PREPARED FOR
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SYRACUSE, NEW YORK

PREPARED BY:

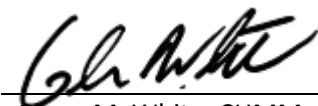


Jon Sanger
Environmental Specialist
Haley & Aldrich of New York

REVIEWED AND APPROVED BY:



Richard Rago
Technical Expert
Haley & Aldrich of New York



Glenn M. White, CHMM
Associate
Haley & Aldrich of New York

Executive Summary

On behalf of Carrier, Haley & Aldrich of New York (Haley & Aldrich) is submitting this vapor intrusion (VI) investigation report for a monitoring event that was performed in December 2022 at the 6304 Thompson Road Facility (Site) in Syracuse, Onondaga County, New York. The samples were collected by Haley & Aldrich and AECOM Technical Services, Inc. (AECOM) in December 2022, in accordance with the Vapor Intrusion Investigation Work Plan (VI Work Plan; AECOM, 2017). The VI Work Plan was approved by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) in October 2017. Since VI investigations have begun, six buildings have been fully or partially mitigated and five buildings have been demolished, including three where significant source areas were identified. Only 22 structures remain on the property.

In coordination with NYSDEC and NYSDOH, this report includes the results of sub-slab soil vapor, indoor air, and outdoor air sample collection and analysis at seven Site buildings in the VI monitoring program, including TR-4, TR-5, TR-6A, TR-7, TR-7A, TR-12, and TR-19. This sampling event also included collection of two additional sample set locations in Building TR-5A, which is currently infrequently used and had not been considered to date in previous VI investigations. An additional round of data was previously collected in August 2022 in Building TR-5A. The results for TR-5A herein support Carrier's plans to soon repurpose the building for testing refrigerated trailers.

The December 2022 analytical results were compared to the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006), which includes three generic decision matrices (NYSDOH, 2006, 2017) for evaluating the potential VI pathway. Continued soil vapor and indoor air monitoring is planned for the 2023/2024 winter heating season at select locations in six buildings remaining in the VI monitoring program, including TR-4, TR-5, TR-6A, TR-7, TR-12, and TR-19, where residual soil vapor contaminants remain. However, continued indoor air monitoring data supports the premise that concentrations of trichloroethene (TCE), the principal contaminant of concern at the Site, are less than 1 microgram per cubic meter ($\mu\text{g}/\text{m}^3$) in indoor air. As detailed in our 24 March 2022 report and as further supported herein, the December 2022 data are consistent with historical data that indicate that additional action in Building TR-7A is not needed and that the ongoing air monitoring of Building TR-7A can be discontinued.

Table of Contents

	Page
Executive Summary	i
List of Tables	iii
List of Figures	iv
List of Appendices	iv
1. Introduction	1
1.1 PREVIOUS INVESTIGATIONS AND MONITORING	1
2. Vapor Intrusion Investigation Activities	3
2.1 SAMPLE LOCATIONS	3
2.2 SAMPLE COLLECTIONS AND ANALYSIS	4
2.3 INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY DOCUMENTATION	5
3. Data Validation and Data Usability	6
4. Results	7
4.1 BUILDING TR-4	7
4.2 BUILDING TR-5	9
4.3 BUILDING TR-5A	11
4.4 BUILDING TR-6A	14
4.5 BUILDING TR-7	16
4.6 BUILDING TR-7A	18
4.7 BUILDING TR-12	20
4.8 BUILDING TR-19	22
4.8.1 Petroleum Hydrocarbons	24
5. Conclusions and Recommendations	25
References	26

List of Tables

Table No.	Title
1	Summary of Analytical Results – Building TR-4
2	Summary of Analytical Results – Building TR-5
3	Summary of Analytical Results – Building TR-5A
4	Summary of Analytical Results – Building TR-6A
5	Summary of Analytical Results – Building TR-7
6	Summary of Analytical Results – Building TR-7A
7	Summary of Analytical Results – Building TR-12
8	Summary of Analytical Results – Building TR-19
9	Evaluation of Analytical Results – Building TR-4
10	Evaluation of Analytical Results – Building TR-5
11A	Evaluation of Analytical Results – August 2022 - Building TR-5A
11B	Evaluation of Analytical Results – December 2022 – Building TR-5A
12	Evaluation of Analytical Results – Building TR-6A
13	Evaluation of Analytical Results – Building TR-7
14	Evaluation of Analytical Results – Building TR-7A
15	Evaluation of Analytical Results – Building TR-12
16	Evaluation of Analytical Results – Building TR-19

Note: Tables 1 through 8 are appended at the end of the report, and Tables 9 through 16 are embedded within the text of the report.

List of Figures

Figure No.	Title
1	Site Plan
2	Indoor Air and Sub-slab Soil Vapor Data - December 2022 - Building TR-4
3	Indoor Air and Sub-slab Soil Vapor Data - December 2022 - Building TR-5
4A	Indoor Air and Sub-slab Soil Vapor Data - August 2022 - Building TR-5A
4B	Indoor Air and Sub-slab Soil Vapor Data - December 2022 - Building TR-5A
5	Indoor Air and Sub-slab Soil Vapor Data - December 2022 - Building TR-6A
6	Indoor Air and Sub-slab Soil Vapor Data - December 2022 - Building TR-7/TR-7A
7	Indoor Air and Sub-slab Soil Vapor Data - December 2022 - Building TR-12
8	Indoor Air and Sub-slab Soil Vapor Data - December 2022 - Building TR-19
9	Soil Vapor/Indoor Air Matrices

List of Appendices

Appendix	Title
A	Field Sampling Forms, Photographs, Indoor Air Quality Questionnaire, and Building Inventory Forms
B	Data Usability Summary Reports and Laboratory Analytical Reports
C	Long-Term Monitoring Tables

1. Introduction

On behalf of Carrier, Haley & Aldrich of New York (Haley & Aldrich) is submitting this vapor intrusion (VI) monitoring report for the 6304 Thompson Road Facility (Site) in Syracuse, Onondaga County, New York. The samples were collected by Haley & Aldrich and AECOM Technical Services, Inc. (AECOM) in December 2022, in accordance with the Vapor Intrusion Investigation Work Plan (VI Work Plan; AECOM, 2017). The VI Work Plan was approved by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) in October 2017.

To date, potential VI has been investigated in 17 buildings on the Site. The previous four rounds of sampling efforts included the collection of at least 184 sub-slab soil vapor samples, 192 indoor air samples, and 36 companion outdoor air samples. Based on the findings, Carrier previously coordinated with NYSDEC and NYSDOH to install active mitigation systems in six buildings, including TR-6, TR-18, TR-18S, the Storm Water Treatment Plant (SWTP), as well as portions of TR-4 and TR-20.

In addition to full or partial mitigation system installation in six buildings, five buildings have been demolished since VI investigations began. In coordination with NYSDEC and NYSDOH, seven buildings were included in the winter 2022 VI monitoring program, which has been ongoing since 2017. This sampling event also included collection of two sample set locations in Building TR-5A, which is currently infrequently used and had not been considered in previous VI investigations. An additional round of data was previously collected in August 2022 in Building TR-5A. The results for TR-5A herein support Carrier's plans to repurpose the building for testing refrigerated trailers. A Site Plan depicting winter 2022 sample locations, as well as buildings with mitigation systems, is provided as Figure 1.

1.1 PREVIOUS INVESTIGATIONS AND MONITORING

As detailed in their *Vapor Intrusion Investigation Report – March/April 2021 Monitoring Event – Revision 01* (AECOM, 2021b), the first rounds of AECOM's VI investigation work were implemented in November/December 2017 and February/March 2018 (AECOM, 2018). According to AECOM, recommendations in the 2018 report were completed along with additional investigation activities requested by NYSDEC in a letter dated 26 July 2018 (NYSDEC, 2018). The additional VI investigation activities were implemented in January/May 2019 and reported in the AECOM June 2019 *Vapor Intrusion Investigation Report* (AECOM, 2019). Based on the VI reports, NYSDEC provided a letter dated 12 September 2019 (NYSDEC, 2019), which recommended actions for seven Site buildings (TR-4, TR-5, TR-6A, TR-7, TR-7A, TR-12, and TR-19).

A round of sub-slab soil vapor, indoor air, and outdoor air monitoring was also completed at all seven buildings in March/April 2021 (AECOM, 2021a). The August 2021 report was entitled *Vapor Intrusion Investigation Report – March/April 2021 Monitoring Event*. Based on comments received in a 7 September 2021 NYSDEC letter (NYSDEC, 2021), AECOM revised and resubmitted the report in November 2021 (AECOM, 2021b).

The 7 September 2021 NYSDEC letter also requested collection of a second sample set location (i.e., indoor air and sub-slab vapor sampling pair) in the southern portion of Building TR-6A, two additional indoor air monitoring locations in Building TR-12, and six specifically selected Building TR-19 locations. The results of the VI monitoring program, including the additional samples requested by NYSDEC, were summarized in the 24 March 2022 *Vapor Intrusion Investigation Report* (Haley & Aldrich, 2022). A 9 May

2022 NYSDEC letter was subsequently sent to Carrier indicating that NYSDEC and NYSDOH reviewed the March 2022 report and determined that the report was satisfactory.

2. Vapor Intrusion Investigation Activities

This report transmits the results of the VI sampling program which were performed in December 2022. The work herein was performed in accordance with the approved VI Work Plan and included monitoring locations in Site buildings TR-4, TR-5, TR-6A, TR-7, TR-7A, TR-12, and TR-19. This sampling event also included collection of two sample set locations in Building TR-5A, which is currently infrequently used and had not been considered to date in previous VI investigations. An additional round of data was previously collected in August 2022 in Building TR-5A. The results for TR-5A presented herein will support Carrier's plans to repurpose the building for testing refrigerated trailers. The sampling work began on 19 December 2022 and was completed on 22 December 2022. The field work was performed as a collaborative effort with Haley & Aldrich and AECOM scientists experienced in VI investigations.

In summary, December 2022 field sampling activities included the following:

- installation of a new temporary Vapor Pin® at the selected location in TR-5A (TR5A-SSV-2) and installation of a replacement permanent Vapor Pin® at one location in TR-19 (TR19-SSV-7);
- observations of sample locations for physical conditions (e.g., floor slab cracks);
- completion of indoor air quality questionnaires with associated building inventories for potential non-VI sources;
- helium leak testing and sample train integrity checks;
- sub-slab soil vapor, indoor air, and outdoor air sample collection; and
- sample delivery to the laboratory courier under chain of custody protocols. Field activities are summarized on the sample collection forms presented in Appendix A.

2.1 SAMPLE LOCATIONS

The December 2022 sampling event consisted of the collection of 23 indoor air samples paired with 23 sub-slab soil vapor samples, and six associated quality assurance/quality control (QA/QC) samples (duplicate pairs for three indoor air samples and three sub-slab soil vapor samples). In addition, five associated outdoor air samples were collected during each sample collection day. Samples were collected in the following buildings as follows:

- TR-4: paired indoor air and sub-slab soil vapor samples at three locations (see exception noted below in Section 2.2);
- TR-5: paired indoor air and sub-slab soil vapor samples at five locations, plus a duplicate pair;
- TR-5A: paired indoor air and sub-slab soil vapor samples at two locations;
- TR-6A: paired indoor air and sub-slab soil vapor samples at one location;
- TR-7: paired indoor air and sub-slab soil vapor samples at six locations plus a duplicate pair;
- TR-7A: paired indoor air and sub-slab soil vapor samples at two locations;
- TR-12: paired indoor air and sub-slab soil vapor samples at one location; and
- TR-19: paired indoor air and sub-slab soil vapor samples at three locations, plus a duplicate pair.

A Site Plan depicting sampling locations is provided as Figure 1.

2.2 SAMPLE COLLECTIONS AND ANALYSIS

The samples were collected in stainless-steel canisters fitted with 8-hour flow controllers as provided by Alpha Analytical Labs (Alpha), the subcontracted laboratory. Consistent with the VI Work Plan, the target compound list included eight chlorinated volatile organic compounds (CVOCs) defined in NYSDOH's Soil Vapor/Indoor Air Matrices (NYSDOH, 2006, 2017):

Soil Vapor/Indoor Air Matrix A:

- 1,1-dichloroethene (1,1-DCE)
- cis-1,2-dichloroethene (cis-1,2-DCE)
- carbon tetrachloride
- trichloroethene (TCE)

Soil Vapor/Indoor Air Matrix B:

- 1,1,1-trichloroethane (1,1,1-TCA)
- tetrachloroethene (PCE)
- methylene chloride (MC)

Soil Vapor/Indoor Air Matrix C:

- vinyl chloride (VC)

In addition, the target compound list included 1,1-dichloroethane (1,1-DCA), trans-1,2-dichloroethene (trans-1,2-DCE), and the common petroleum volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and xylenes (BTEX), as requested by NYSDEC.

To install new Vapor Pins®, an electric hammer drill was used to advance a 5/8-inch-diameter hole through the concrete slab into the underlying fill. Concrete debris was removed using a hand brush and vacuum to prevent it from entering the hole. At each location, Vapor Pins® were installed by drilling a 1.5-inch-diameter hole to approximately 1.75 inches into the concrete slab. The sub-slab soil vapor samples were collected through ⅝-inch inside diameter by ¾-inch outside diameter Teflon™-lined polyethylene tubing which was connected to the Vapor Pins® using a short piece of silicone tubing.

A helium tracer gas test was performed as a leak test methodology to evaluate sample integrity. To perform the test, an enclosure was placed over the sealed sub-slab sample location. The sample tubing was run through a hole in the enclosure, and a silicone gasket was used to seal the interface between the tubing and the enclosure. The enclosure was then sealed at the ground surface with a foam gasket. A tank containing high-purity helium was connected to the side port of the enclosure and helium was released within the enclosure. Following the application of the tracer gas, approximately 1 liter of soil vapor was purged using a personal sample pump at a rate of approximately 0.2 liters per minute (L/min) into a 1-liter Tedlar® bag. The contents of the Tedlar® bag were analyzed outside the building for helium using a Radiodetection/Dielectric MGD-2002 Multi-gas Detector for total VOCs with a photoionization detector (PID), and for methane/oxygen/carbon dioxide/hydrogen sulfide with a GEM 2000 landfill gas

monitor. Remaining contents of the Tedlar® bag containing the sub-slab purged vapor were subsequently discharged to outdoor air.

After successful tracer testing, the enclosure was then removed, and the tubing was connected to the evacuated canister via the flow controller for sample collection. The initial vacuum and start time were recorded at the beginning of each sampling period. After the sampling period, the final canister vacuum was recorded and the flow controller was removed. The tubing was removed, a rubber cap was placed on the Vapor Pin®, and the flush-mount, stainless-steel threaded cap was installed.

The sample canisters were shipped under chain of custody protocols to Alpha (ELAP ID 11148, 11627) in Mansfield, Massachusetts for analysis of the target parameters following United States Environmental Protection Agency (USEPA) Method TO-15. QA/QC samples consisted of duplicate samples collected from the same location as the primary sample. In accordance with the VI Work Plan, the duplicate samples were collected using a tee fitting, which allowed the duplicate and primary sample to be collected from the same sample port. QA/QC samples were collected at a frequency of one for every 10 samples. Photographs taken of the sampling points during testing are provided in Appendix A.

2.3 INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY DOCUMENTATION

The inventories documented materials stored in the vicinity of the sample locations so that possible indoor air background sources could be identified. The completed indoor air quality questionnaire and building inventory forms are provided in Appendix A.

3. Data Validation and Data Usability

Haley & Aldrich performed a data quality assessment of the laboratory reports to assess the overall quality of the data obtained for its usability in reporting the results of the VI investigation. Haley & Aldrich's assessment included a preliminary review of gas chromatography/mass spectrometry (GC/MS) instrument performance checks, initial and continuing calibrations, method blanks, laboratory control samples, internal standard recoveries, and sample data formatting. Our review is included in Data Usability Summary Reports (DUSRs) which have been prepared following the guidelines provided in NYSDEC's *Division of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B, Guidance for Data Deliverables and the Development of Data Usability Summary Reports*, May 2010. These included the four Sample Delivery Groups (SDGs) for Alpha lab reports L2271721, L2271728, L2272321, and L2272323. The DUSRs addressed analytical data for 26 soil vapor samples (including three soil vapor field duplicates), 26 indoor air samples (including three indoor air field duplicates), and five ambient (outdoor) air samples collected from 19 to 22 December 2022. The samples were collected to support the Soil Vapor Intrusion Study for the Carrier site (Site #734043), located in Syracuse, New York. The DUSR and lab reports are provided in Appendix B. The DUSR and lab report related to the August 2022 sampling of TR-5A are also provided in Appendix B.

The laboratory reports indicate that there were not substantial non-conformance issues identified for this data. Based on a review of the laboratory data criteria for precision, accuracy, representativeness, and comparability and the field QC sample data, the data are usable for the intended purpose and are of sufficient and defensible quality to be used for the data quality objectives (DQOs) established for the investigation of potential VI at the Site. No data were rejected from consideration, and the data are usable with the qualifications defined in the DUSRs.

4. Results

The validated laboratory analytical results for the winter 2022 sampling event completed in December for each of the buildings sampled are summarized in Tables 1 through 8, along with NYSDOH Soil Vapor/Indoor Air Matrix A, B, and C concentration ranges (Tables 9 through 16). Table 3, representing data for Building TR-5A, also includes the results for the August 2022 sampling event. The results for each building are depicted on Figures 2 through 8, with NYSDOH Soil Vapor/Indoor Air Matrices depicted on Figure 9. In addition, companion outdoor air results for the sub-slab soil vapor and indoor air sample pairs are provided for each building's table and figure. Long-term monitoring tables are presented in Appendix C. The results for each building for the December 2022 sampling event are discussed below, as well as the August 2022 event in Building TR-5A.

4.1 BUILDING TR-4

Building TR-4 includes office space in the northern half of the building and active research and development (R&D) testing and prototype machining and production operations in the southern portion of the building. The floor in the southern portion of the building is sealed with an epoxy coating. A portion of the building already includes an active sub-slab depressurization system (SSDS), which is depicted on Figure 2. For the winter 2022 sampling event, concentrations of TCE in sub-slab soil vapor ranged from 12.4 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to 87.1 $\mu\text{g}/\text{m}^3$, and indoor air concentrations ranged from 0.167 $\mu\text{g}/\text{m}^3$ to 0.849 $\mu\text{g}/\text{m}^3$.

Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence in indoor air is due to outdoor air entering the building. Low levels of 1,1,1-TCA, 1,1-DCA, cis-1,2-DCE, and trans-1,2-DCE were identified in indoor air at concentrations less than the sub-slab soil vapor concentrations. Other CVOCs identified in sub-slab soil vapor were not identified in indoor air.

In general, the December 2022 findings are consistent with prior monitoring results for Building TR-4. Based on the results to date, Carrier will continue to conduct annual VI monitoring of Building TR-4 in the winter heating season for 2023/2024. Concurrent with any future sampling, Carrier will evaluate the epoxy-coated floors for cracks and penetrations and will update the indoor air quality questionnaire and building inventory.

The December 2022 results for Building TR-4 are summarized in Table 1 and depicted on Figure 2. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Table 9 below.

TABLE 9
EVALUATION OF ANALYTICAL RESULTS - BUILDING TR-4
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR4-SSV/IA-1 - 1,1-DCE, cis-1,2-DCE TR4-SSV/IA-3 - 1,1-DCE TR4-SSV/IA-4 - 1,1-DCE, cis-1,2-DCE	TR4-SSV/IA-1 - CT TR4-SSV/IA-3 - CT, cis-1,2-DCE TR4-SSV/IA-4 - CT	NONE
	6 - 60	NONE	TR4-SSV/IA-3 - TCE TR4-SSV/IA-4 - TCE	NONE
	> 60	TR4-SSV/IA-1 - TCE	NONE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR4-SSV/IA-1 - All TR4-SSV/IA-3 - All TR4-SSV/IA-4 - All	NONE	NONE
	100 - 1000	NONE	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR4-SSV/IA-1 - All TR4-SSV/IA-3 - All TR4-IA-4 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:

µg/m3: micrograms per cubic meter

Criteria displayed in µg/m3.

Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.

4.2 BUILDING TR-5

Building TR-5 includes office space in the northern end of the building, a waste storage area, a maintenance warehouse, and a general storage area in the southern end of the building. The southern end of the building houses gasoline-powered maintenance equipment used for campus management, such as skid steers, loaders, Gator®-style utility vehicles, and lawn mowers. The floor in the southern end of building is sealed with an epoxy coating. For the winter 2022 sampling event, concentrations of TCE in sub-slab soil vapor ranged from 10.1 $\mu\text{g}/\text{m}^3$ to 962 $\mu\text{g}/\text{m}^3$, and indoor air concentrations ranged from 0.156 $\mu\text{g}/\text{m}^3$ to 0.774 $\mu\text{g}/\text{m}^3$.

Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence in indoor air is due to outdoor air entering the building. The CVOC trans-1,2-DCE was identified in indoor air at concentrations that were an order of magnitude greater than corresponding sub-slab soil vapor. An aerosol product containing greater than 90 percent trans-1,2-DCE was identified in past building surveys (CSM-3 Degreaser; see Safety Data Sheet provided in Appendix A), and its presence in indoor air may be due to an indoor emission source. Low levels of 1,1,1-TCA, PCE, cis-1,2-DCE, and trans-1,2-DCE were also identified detected in indoor air. Other CVOCs identified in sub-slab soil vapor were not in indoor air.

In general, the December 2022 findings are consistent with prior monitoring results for Building TR-5. Based on the results to date, Carrier will continue to conduct annual VI monitoring of Building TR-5 in the winter heating season for 2023/2024. Concurrent with any future sampling, Carrier will evaluate the epoxy-coated floors for cracks and penetrations and will update the indoor air quality questionnaire and building inventory.

The December 2022 results for Building TR-5 are summarized in Table 2 and depicted on Figure 3. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Table 10 below.

TABLE 10
EVALUATION OF ANALYTICAL RESULTS - BUILDING TR-5
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR5-SSV/IA-1 - 1,1-DCE, cis-1,2-DCE TR5-SSV/IA-2 - 1,1-DCE, cis-1,2-DCE TR5-SSV/IA-3 - 1,1-DCE, cis-1,2-DCE TR5-SSV/IA-4 - 1,1-DCE, cis-1,2-DCE TR5-SSV/IA-5 - 1,1-DCE	TR5-SSV/IA-2 - CT TR5-SSV/IA-3 - CT TR5-SSV/IA-5 - cis-1,2-DCE, CT	NONE
	6 - 60	TR5-SSV/IA-4 - TCE TR5-SSV/IA-3 - TCE	TR5-SSV/IA-1 - CT, TCE TR5-SSV/IA-4 - CT TR5-SSV/IA-5 - TCE	NONE
	> 60	NONE	TR5-SSV/IA-2 - TCE TR5-SSV/IA-4 - TCE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR5-SSV/IA-1 - PCE, MC TR5-SSV/IA-2 - All TR5-SSV/IA-3 - All TR5-SSV/IA-4 - PCE, MC TR5-SSV/IA-5 - All	NONE	NONE
	100 - 1000	TR5-SSV/IA-1 - 1,1,1-TCA TR5-SSV/IA-4 - 1,1,1-TCA	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR5-SSV/IA-1 - All TR5-SSV/IA-2 - All TR5-SSV/IA-3 - All TR5-SSV/IA-4 - All TR5-SSV/IA-5 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:

µg/m3: micrograms per cubic meter

Criteria displayed in µg/m3.

Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.

4.3 BUILDING TR-5A

Building TR-5A is a small garage building located between TR-5 and TR-19 that was previously unoccupied with a portion used for storage space. In 2022, Carrier initiated plans to repurpose the building for testing refrigerated trailers in the future. Prior to renovation, the building was evaluated in August 2022 and again in December 2022 to confirm the results after the renovation and during the heating season. During both sampling events, active improvements were taking place, including the installation of epoxy flooring, painting of the interior floors and walls, and installation of a ductless heating and cooling system. For the August 2022 event, concentrations of TCE in the sub-slab soil vapor ranged from 1.7 $\mu\text{g}/\text{m}^3$ to 8.6 $\mu\text{g}/\text{m}^3$ and was non-detect ($<0.107 \mu\text{g}/\text{m}^3$) in indoor air. For the winter 2022 sampling event, concentrations of TCE in sub-slab soil vapor ranged from 1.1 $\mu\text{g}/\text{m}^3$ to 5.23 $\mu\text{g}/\text{m}^3$ and was non-detect ($<0.107 \mu\text{g}/\text{m}^3$) in indoor air.

Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence is due to an outdoor air source for both events. Low levels of cis-1,2-DCE were also identified in indoor air in December 2022. Other CVOs identified in sub-slab soil vapor were not identified in indoor air.

In December 2022, sub-slab vapor sample location TR5A-SSV-2 and indoor air location TR5A-IA-2 resulted in elevated concentrations of petroleum hydrocarbons, specifically a sub-slab soil vapor concentration for xylene (2,070 $\mu\text{g}/\text{m}^3$), which is likely the result of the use of commercial paint products during sampling as well as the installation of epoxy flooring and painting of the interior floors and walls. As reported to NYSDEC (Spill #2208299), an underground storage tank was discovered in December 2022 at the northern end of TR-5A during a sewer repair project. The tank was cleaned and abandoned in-place due to its proximity to the building footings.

Based on these results, Carrier will conduct an additional sampling event in the upcoming winter 2023-2024 season to confirm the August 2022 and December 2022 sampling event results. The August and December 2022 results for Building TR-5A are summarized in Table 3 and depicted on Figures 4A and 4B. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Tables 11A and 11B below.

TABLE 11A

EVALUATION OF ANALYTICAL RESULTS - AUGUST 2022 - BUILDING TR-5A

CARRIER THOMPSON ROAD FACILITY

SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR5A-SSV/IA-1 - 1,1,-DCE, cis-1,2-DCE, TCE TR5A-SSV/IA-2 - 1,1,-DCE, cis-1,2-DCE	TR5A-SSV/IA-1 - CT TR5A-SSV/IA-2 - CT	NONE
	6 - 60	TR5A-SSV/IA-2 - TCE	NONE	NONE
	> 60	NONE	NONE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR5A-SSV/IA-1 - All TR5A-SSV/IA-2 - All	NONE	NONE
	100 - 1000	NONE	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR5A-SSV/IA-1 - All TR5A-SSV/IA-2 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:*µg/m3: micrograms per cubic meter**Criteria displayed in µg/m3.**Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.*

TABLE 11B

EVALUATION OF ANALYTICAL RESULTS - DECEMBER 2022- BUILDING TR-5A

CARRIER THOMPSON ROAD FACILITY

SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR5A-SSV/IA-1 - 1,1-DCE, cis-1,2-DCE, TCE TR5A-SSV/IA-2 - 1,1-DCE, cis-1,2-DCE, TCE	TR5A-SSV/IA-1 - CT TR5A-SSV/IA-2 - CT	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR5A-SSV/IA-1 - All TR5A-SSV/IA-2 - All	NONE	NONE
	100 - 1000	NONE	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR5A-SSV/IA-1 - All TR5A-SSV/IA-2 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:*µg/m3: micrograms per cubic meter**Criteria displayed in µg/m3.**Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.*

4.4 BUILDING TR-6A

Building TR-6A is a former maintenance storage shed that was being transitioned for use as an equipment storage unit for the facility's heating, ventilation, and air conditioning (HVAC) system and refrigeration R&D unit during the sampling event. The front portion of the building was previously used to store cleaning chemicals and gasoline-powered maintenance equipment, such as all-terrain vehicles (ATVs) and lawnmowers. The southern portion of the building was previously used exclusively to store similar gasoline-powered vehicles, but also includes snowblowers, weed whackers, and lawn tractors. The building is infrequently occupied and currently houses a number of commercial and residential HVAC condensers and air handling units. It is not being used for employee office/kitchen spaces.

For the winter 2022 sampling event, concentrations of TCE in sub-slab soil vapor were $11.6 \mu\text{g}/\text{m}^3$, and at the reporting limit of $0.107 \mu\text{g}/\text{m}^3$ in indoor air. Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence is due to an outdoor air source. Low levels of PCE were also identified in the indoor air samples, although it is a common indoor air background constituent. Other CVOs identified in sub-slab soil vapor were not identified in indoor air and are therefore not supportive of VI.

In general, the December 2022 findings are consistent with historical monitoring results for Building TR-6A. Based on the results, Carrier will continue to conduct annual VI monitoring of Building TR-6A in the winter heating season for 2023/2024. Concurrent with sampling, Carrier will evaluate the floors for cracks and penetrations and will update the indoor air quality questionnaire and building inventory.

The December 2022 results for Building TR-6A are summarized in Table 4 and depicted on Figure 5. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Table 12 below.

TABLE 12
EVALUATION OF ANALYTICAL RESULTS - BUILDING TR-6A
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR6A-SSV/IA-1 - 1,1-DCE, cis-1,2-DCE	NONE	NONE
	6 - 60	TR6A-SSV/IA-1 - TCE	TR6A-SSV/IA-1 - CT	NONE
	> 60	NONE	NONE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR6A-SSV/IA-1 - MC	NONE	NONE
	100 - 1000	TR6A-SSV/IA-1 - 1,1,1-TCA, PCE	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR6A-SSV/IA-1 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:

µg/m3: micrograms per cubic meter

Criteria displayed in µg/m3.

Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.

4.5 BUILDING TR-7

For the winter 2022 sampling event, concentrations of TCE in sub-slab soil vapor in Building TR-7 ranged from 3.44 $\mu\text{g}/\text{m}^3$ to 91.9 $\mu\text{g}/\text{m}^3$, and indoor air concentrations ranged from 0.473 $\mu\text{g}/\text{m}^3$ to 0.779 $\mu\text{g}/\text{m}^3$. Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence is likely due to an outdoor air source. Low levels of cis-1,2-DCE and 1,1-DCA were also identified in the indoor air samples. Other CVOCs identified in sub-slab soil vapor were not identified in indoor air.

In general, the December 2022 findings are consistent with historical monitoring results for Building TR-7. Based on the results, Carrier will continue to conduct annual monitoring of Building TR-7 in the winter heating season for 2023/2024. Concurrent with sampling, Carrier will evaluate the epoxy-coated floors for cracks and penetrations and will update the indoor air quality questionnaire and building inventory.

The December 2022 results for Building TR-7 are summarized in Table 5 and depicted on Figure 6. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Table 13 below.

TABLE 13
EVALUATION OF ANALYTICAL RESULTS - BUILDING TR-7
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR7-SSV/IA-1 - 1,1-DCE TR7-SSV/IA-2 - 1,1-DCE TR7-SSV/IA-3 - 1,1-DCE TR7-SSV/IA-4 - 1,1-DCE TR7-SSV/IA-5 - 1,1-DCE TR7-SSV/IA-6 - 1,1-DCE	TR7-SSV/IA-1 - CT TR7-SSV/IA-2 - cis-1,2-DCE, CT TR7-SSV/IA-3 - cis-1,2-DCE, CT, TCE TR7-SSV/IA-4 - CT TR7-SSV/IA-5 - cis-1,2-DCE, CT, TCE TR7-SSV/IA-6 - cis-1,2-DCE, CT, TCE	NONE
	6 - 60	NONE	TR7-SSV/IA-1 - cis-1,2-DCE, TCE TR7-SSV/IA-2 - TCE TR7-SSV/IA-4 - cis-1,2-DCE, TCE	NONE
	> 60	NONE	NONE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR7-SSV/IA-1 - All TR7-SSV/IA-2 - All TR7-SSV/IA-3 - All TR7-SSV/IA-4 - All TR7-SSV/IA-5 - All TR7-SSV/IA-6 - All	NONE	NONE
	100 - 1000	NONE	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR7-SSV/IA-1 - All TR7-SSV/IA-2 - All TR7-SSV/IA-3 - All TR7-SSV/IA-4 - All TR7-SSV/IA-5 - All TR7-SSV/IA-6 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:

µg/m3: micrograms per cubic meter

Criteria displayed in µg/m3.

Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.

4.6 BUILDING TR-7A

For the winter 2022 sampling event, concentrations of TCE in sub-slab soil vapor in Building TR-7A ranged from 0.204 $\mu\text{g}/\text{m}^3$ to 50.7 $\mu\text{g}/\text{m}^3$, and indoor air was non-detect ($<0.107 \mu\text{g}/\text{m}^3$) in each of the samples collected. Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence is due to an outdoor air source. Other CVOCs identified in sub-slab soil vapor were not identified in indoor air.

Although the March 2022 VI report indicated that continued monitoring of Building TR-7A was not planned, Carrier included this building for one additional monitoring event as part of the December 2022 sampling program. The December 2022 data are consistent with historical data which support that additional action in Building TR-7A is not needed and that the ongoing VI monitoring of Building TR-7A can be discontinued.

The December 2022 results for Building TR-7A are summarized in Table 6 and depicted on Figure 6. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Table 14 below.

TABLE 14

EVALUATION OF ANALYTICAL RESULTS - BUILDING TR-7A

CARRIER THOMPSON ROAD FACILITY

SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR7A-SSV/IA-1 - 1,1-DCE, cis-1,2-DCE, TCE TR7A-SSV/IA-2 - 1,1-DCE, cis-1,2-DCE	TR7A-SSV/IA-1 - CT TR7A-SSV/IA-2 - CT	NONE
	6 - 60	TR7A-SSV/IA-2 - TCE	NONE	NONE
	> 60	NONE	NONE	NONE
Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR7A-SSV/IA-1 - All TR7A-SSV/IA-2 - All	NONE	NONE
	100 - 1000	NONE	NONE	NONE
	> 1000	NONE	NONE	NONE
Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR7A-SSV/IA-1 - All TR7A-SSV/IA-2 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations: $\mu\text{g}/\text{m}^3$: micrograms per cubic meterCriteria displayed in $\mu\text{g}/\text{m}^3$.

Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.

4.7 BUILDING TR-12

Building TR-12 is used as a machine shop for prototype development, with petroleum-based lubricants, VOC-based aerosol paints, and other products identified during indoor air sampling building surveys. For the winter 2022 sampling event, the sub-slab soil vapor TCE concentration was 181 $\mu\text{g}/\text{m}^3$, and the indoor air concentration in Building TR-12 was 0.661 $\mu\text{g}/\text{m}^3$. Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence is due to an outdoor air source. Low levels of other CVOCs were also identified in sub-slab soil vapor and/or indoor air. Low levels of cis-1,2-DCE, PCE and 1,1-DCE were also identified in indoor air samples, although the presence of one or more of those compounds may be due to a background source. Vinyl chloride was detected in the indoor air sample but was not detected in the sub-slab vapor sample. Other CVOCs identified in sub-slab soil vapor were not identified in indoor air.

In general, the December 2022 findings are consistent with historical monitoring results for Building TR-12. Based on the results, Carrier will continue to conduct annual VI monitoring of Building TR-12 in the winter heating season for 2023/2024. Concurrent with sampling, Carrier will evaluate the epoxy-coated floors for cracks and penetrations and will update the indoor air quality questionnaire and building inventory.

The December 2022 results for Building TR-12 are summarized in Table 7 and depicted on Figure 7. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Table 15 below.

TABLE 15
EVALUATION OF ANALYTICAL RESULTS - BUILDING TR-12
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR12-SSV/IA-1 - 1,1-DCE	TR12-SSV/IA-1 - CT	NONE
	6 - 60	NONE	TR12-SSV/IA-1 - cis-1,2-DCE	NONE
	> 60	NONE	TR12-SSV/IA-1 - TCE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR12-SSV/IA-1 - All	NONE	NONE
	100 - 1000	NONE	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR12-SSV/IA-1 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:

µg/m3: micrograms per cubic meter

Criteria displayed in µg/m3.

Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.

4.8 BUILDING TR-19

Building TR-19 includes active laboratory testing operations, and the floor is sealed with an epoxy coating. For the winter 2022 sampling event, concentrations of TCE in sub-slab soil vapor ranged from 0.570 $\mu\text{g}/\text{m}^3$ to 333 $\mu\text{g}/\text{m}^3$, and indoor air was non-detect ($<0.107 \mu\text{g}/\text{m}^3$) in each of the samples tested. Carbon tetrachloride was detected in indoor air and outdoor air at generally equivalent concentrations, and its presence is due to an outdoor air source.

Low levels of the CVOC trans-1,2-DCE were identified in indoor air and sub-slab soil vapor for one paired sampling location. An aerosol product containing greater than 90 percent trans-1,2-DCE was identified in past building surveys (CSM-3 Degreaser; see Safety Data Sheet provided in Appendix A), and its presence may be due to an indoor source. Similarly, the CVOC methylene chloride was identified in indoor air at a concentration of 3.96 $\mu\text{g}/\text{m}^3$, although it was not detected in its corresponding sub-slab soil vapor sample ($<1.74 \mu\text{g}/\text{m}^3$). Low levels of other CVOCs were identified in sub-slab soil vapor but were not identified in indoor air.

In general, the December 2022 findings are consistent with historical monitoring results for Building TR-19. Based on the results, Carrier will continue to conduct annual VI monitoring of Building TR-19 in the winter heating season for 2023/2024. Concurrent with sampling, Carrier will evaluate the epoxy-coated floors for cracks and penetrations and will update the indoor air quality questionnaire and building inventory.

The December 2022 results for Building TR-19 are summarized in Table 8 and depicted on Figure 8. The evaluation of the results is aided by presentation of each sample result assigned to its respective NYSDOH decision matrix range, as summarized in Table 16 below.

TABLE 16
EVALUATION OF ANALYTICAL RESULTS - BUILDING TR-19
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Matrix A 1,1-DCE: 1,1-Dichloroethene cis-1,2-DCE: cis-1,2-Dichloroethene CT: Carbon Tetrachloride TCE: Trichloroethene		Indoor Air		
		< 0.2	0.2 - 1	> 1
Soil Gas	< 6	TR19-SSV/IA-4 - 1,1-DCE TR19-SSV/IA-5 - 1,1-DCE, cis-1,2-DCE, TCE TR19-SSV/IA-7 - 1,1-DCE	TR19-SSV/IA-4 - CT TR19-SSV/IA-5 - CT TR19-SSV/IA-7 - CT	NONE
	6 - 60	TR19-SSV/IA-7 - cis-1,2-DCE	NONE	NONE
	> 60	TR19-SSV/IA-4 - cis-1,2-DCE, TCE TR19-SSV/IA-7 - TCE	NONE	NONE

Matrix B 1,1,1-TCA: 1,1,1-Trichloroethane PCE: Tetrachloroethene MC: Methylene Chloride		Indoor Air		
		< 3	3 - 10	> 10
Soil Gas	< 100	TR19-SSV/IA-4 - All TR19-SSV/IA-5 - 1,1,1-TCA, PCE TR19-SSV/IA-7 - All	TR19-SSV/IA-5 - MC	NONE
	100 - 1000	NONE	NONE	NONE
	> 1000	NONE	NONE	NONE

Matrix C VC: Vinyl Chloride		Indoor Air		
		< 0.2	NA	> 0.2
Soil Gas	< 6	TR19-SSV/IA-4 - All TR19-SSV/IA-5 - All TR19-SSV/IA-7 - All	NONE	NONE
	6 - 60	NONE	NONE	NONE
	> 60	NONE	NONE	NONE

Notes and Abbreviations:

µg/m3: micrograms per cubic meter

Criteria displayed in µg/m3.

Carbon Tetrachloride concentrations were corrected for Indoor Air due to significant Outdoor Air contributions.

4.8.1 Petroleum Hydrocarbons

The Site has been the subject of several years of comprehensive environmental assessments for soil, groundwater, sub-slab soil vapor, and indoor air, and petroleum compounds are not the primary contaminants of concern for the Site or for VI. These compounds, which are ubiquitous in indoor air as a background constituent, can also confound VI investigations. This is especially the case in industrial and commercial settings such as this facility, which uses powered industrial vehicles (PIVs) that operate indoors on gasoline, diesel, and propane fuels. In addition, the facility develops and tests tractor trailer refrigeration units inside Building TR-19, which use petroleum fuels and have numerous other indoor sources of petroleum products and internal use of combustion engines.

Carrier will continue to monitor for the target hydrocarbons in the upcoming winter 2023/2024 sampling round.

5. Conclusions and Recommendations

To date, potential VI has been investigated in 17 buildings on the Site. The previous sampling efforts included the collection of at least 184 sub-slab soil vapor samples, 192 indoor air samples, and 36 companion outdoor air samples. Based on the findings, Carrier coordinated with NYSDEC and NYSDOH to install active mitigation systems in six buildings, including TR-6, TR-18, TR-18S, the Storm Water Treatment Plant (SWTP), as well as portions of TR-4 and TR-20.

In addition to full or partial mitigation system installation in six buildings, five buildings have been demolished since VI investigations have begun, including three where significant source areas were identified. In coordination with NYSDEC and NYSDOH, seven Site buildings were included in the December 2022 VI monitoring program, including TR-4, TR-5, TR-6A, TR-7, TR-7A, TR-12, and TR-19. This sampling event also included collection of two additional sample set locations in Building TR-5A, which is currently infrequently used and had not been considered to date in previous VI investigations. The results for TR-5A herein will support Carrier's plans to soon repurpose the building for testing refrigerated trailers.

Based on the findings, continued monitoring of Building TR-7A is not supported. The December 2022 results support the recommendation for continued full or partial monitoring of Buildings TR-4, TR-5, TR-6A, TR-7, TR-12, and TR-19 during winter 2023/2024. Additionally based on the results, Carrier will conduct an additional sampling event for Building TR-5A to confirm the August 2022 and December 2022 sampling results.

References

1. AECOM, 2017. *Vapor Intrusion Investigation Work Plan*. October.
2. AECOM, 2018. *Vapor Intrusion Investigation Report*. June.
3. AECOM, 2019. *Vapor Intrusion Investigation Report*. June.
4. AECOM, 2021a. *Vapor Intrusion Investigation Report – March/April 2021 Monitoring Event*. August.
5. AECOM, 2021b. *Vapor Intrusion Investigation Report – March/April 2021 Monitoring Event, Revision 01*. November.
6. Carrier Corporation, 2021. Responses to Comments for Vapor Intrusion Investigation Report – March/April 2021 Monitoring Event. 15 November.
7. Haley & Aldrich of New York, 2022. *Vapor Intrusion Investigation Report—Winter 2021 Sampling Event*. 24 March.
8. NYSDEC, 2010. *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B, Guidance for Data Deliverables and the Development of Data Usability Summary Reports*. May.
9. NYSDEC, 2018. Correspondence regarding the Vapor Intrusion Investigation Report. 26 July.
10. NYSDEC, 2019. Correspondence regarding the Vapor Intrusion Investigation Reports. 12 September.
11. NYSDEC, 2021. Correspondence regarding the Vapor Intrusion Investigation Report – March April 2021 Monitoring Event. 7 September.
12. NYSDOH, 2006. *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. October.
13. NYSDOH, 2017. Update to Soil Vapor/Indoor Air Decision Matrices (https://www.health.ny.gov/environmental/indoors/vapor_intrusion/update.htm). October 2006.

\\haleyaldrich.com\share\CF\Projects\0201049\Deliverables\2022 VI Report\2023-0216-HANY-Carrier 2022 VI Report-F.docx

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-4
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Building Recommendation												
Monitor One Additional Year												
Location Name	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR4-SSV-1AS 12/20/2022 Field Sample L2271728-01	TR4-IA-1AI 12/20/2022 Field Sample L2271728-02	TR4-SSV-3AS 12/20/2022 Field Sample L2271728-03	TR4-IA-3AI 12/20/2022 Field Sample L2271728-04	TR4-SSV-4AS 12/20/2022 Field Sample L2271728-05	TR4-IA-4AI 12/20/2022 Field Sample L2271728-06
Sample Date												
Sample Type												
Lab Sample ID												
Soil Description	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Chlorinated VOCs												
Matrix A												
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.511	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.182	0.095	5.79	0.511	1.16	0.167
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.849	0.484	0.522	0.516	0.604	0.478
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	87.1	0.167	12.4	0.849	50.1	0.489
Matrix B												
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	40	0.131	27.6	1.11	5.57	1.01
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.97	0.136 U	0.726	0.136 U	4.73	0.136 U
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Matrix C												
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
Other												
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.364	0.081 U	6.23	0.486	0.737	0.142
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.119	0.079 U	0.107	0.079 U	1.16	0.325
Non-Chlorinated VOCs												
Benzene	NA	NA	NA	NA	NA	NA	0.511	0.319 U	0.319 U	0.351	0.498	0.319 U
Ethylbenzene	NA	NA	NA	NA	NA	NA	1.03	0.104	1.11	1.36	3.5	11.6
m,p-Xylenes	NA	NA	NA	NA	NA	NA	4.2	0.256	4.52	5.26	14.1	46
o-Xylene	NA	NA	NA	NA	NA	NA	1.66	0.096	1.81	1.29	4.16	11.5
Toluene	NA	NA	NA	NA	NA	NA	1.88	0.403	1.93	0.475	2.81	1.1
Xylene (Total)	NA	NA	NA	NA	NA	NA	5.86	0.352	6.34	6.56	18.3	57.3

Notes and Abbreviations:

All results displayed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Bold indicates a detection about the laboratory reporting limit.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-5
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Building Recommendation																			
Monitor One Additional Year																			
Location Name	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR5-OA-1AA 12/21/2022 Field Sample L2272321-13	TR5-SSV-1AS 12/21/2022 Field Sample L2272321-01	TR5-IA-1AI 12/21/2022 Field Sample L2272321-02	TR5-SSV-2AS 12/21/2022 Field Sample L2272321-03	TR5-SSV-2AS 12/21/2022 Duplicate L2272321-11	TR5-IA-2AI 12/21/2022 Field Sample L2272321-04	TR5-IA-2AI 12/21/2022 Duplicate L2272321-12	TR5-SSV-3AS 12/21/2022 Field Sample L2272321-05	TR5-IA-3AI 12/21/2022 Field Sample L2272321-06	TR5-SSV-4AS 12/21/2022 Field Sample L2272321-07	TR5-IA-4AI 12/21/2022 Field Sample L2272321-08	TR5-SSV-5AS 12/21/2022 Field Sample L2272321-09	TR5-IA-5AI 12/21/2022 Field Sample L2272321-10
Sample Date																			
Sample Type																			
Lab Sample ID																			
Soil Description	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Chlorinated VOCs																			
Matrix A																			
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.248 U	0.079 U	0.079 U	0.079 U	0.079 U	0.248 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.123	0.079 U	0.083 J	0.248 UJ	0.079 U	0.079 U	0.289	0.079 U	2.39	0.079 U	0.079 U	0.579
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.421	9.5	0.472	0.541 J	0.531	0.491	0.503	0.9	0.522	18.7	0.547	0.547	0.51
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.172	28.8	0.242	55.9 J	96.2 J	0.263	0.301	55.9	0.156	962	0.774	10.1	0.306
Matrix B																			
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	169	0.109 U	3.14 J	5.13 J	0.109 U	0.109 U	28.8	0.109 U	726	0.109	7.47	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.59	1.11	0.136 U	6.39 J	3.52 J	0.339	0.332	1.01	0.224	4.37	1.17	48.4	0.264
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U	9.45 J	1.74 U	1.74 U	1.74 U	1.74 U	5.42 U	1.74 U	4.06	1.74 U
Matrix C																			
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U	0.16 U	0.051 U	0.051 U	0.051 U	0.051 U	0.16 U	0.051 U	0.051 U	0.051 U
Other																			
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	0.081 U	0.081 U	0.253 U	0.081 U	0.081 U	0.166	0.081 U	2.29	0.081 U	0.081 U	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	0.127 J	0.248 UJ	0.17	0.21	0.107	0.099	37	1.88	75.7	646
Non-Chlorinated VOCs																			
Benzene	NA	NA	NA	NA	NA	NA	0.588	0.319 U	0.658	0.319 U	0.997 U	1.64	1.77	0.319 U	1.11	1.94	9.97	0.588	1.64
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.182	0.825	0.912	58.2 J	93.4 J	5.26	5	4.04	3.02	207	39.7	3.23	4.95
m,p-Xylenes	NA	NA	NA	NA	NA	NA	0.521	3.25	3.3	222 J	385 J	20.4	19	16.5	11.3	521	154	13.2	19.3
o-Xylene	NA	NA	NA	NA	NA	NA	0.213	1.33	1.06	109 J	179 J	6.3	5.95	7.69	3.51	612	48.6	4.86	5.82
Toluene	NA	NA	NA	NA	NA	NA	0.957	1.29	1.5	27.9 J	47.5 J	5.84	6.56	5.13	3.66	20.7	41.5	4.33	8.78
Xylene (Total)	NA	NA	NA	NA	NA	NA	0.734	4.6	4.34	331 J	565 J	26.7	24.9	24.2	14.9	1140	202	18.1	25.1

Notes and Abbreviations:
All results displayed in micrograms per cubic meter (µg/m3)
Bold indicates a detection about the laboratory reporting limit.
Grey highlight is the outdoor air sample, included for comparison purposes.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-5A
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Building Recommendation																	
Monitor One Additional Year ; Not Included in VI Program																	
Location Name	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR5A-OA-1AA 08/31/2022 Field Sample L2247390-06	TR5A-SSV-1AS 08/31/2022 Field Sample L2247390-01	TR5A-IA-1AI 08/31/2022 Field Sample L2247390-02	TR5A-SSV-2AS 08/31/2022 Field Sample L2247390-03	TR5A-IA-2AI 08/31/2022 Field Sample L2247390-04	TR5A-IA-2AI 08/31/2022 Duplicate L2247390-05	TR5A-OA-1AA 12/22/2022 Field Sample L2272323-13	TR5A-SSV-1AS 12/22/2022 Field Sample L2272323-07	TR5A-IA-1AI 12/22/2022 Field Sample L2272323-08	TR5A-SSV-2AS 12/22/2022 Field Sample L2272323-09	TR5A-IA-2AI 12/22/2022 Field Sample L2272323-10
Sample Date																	
Sample Type																	
Lab Sample ID																	
Soil Description	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Outdoor Air	Sub-slab Vapor	Indoor Air	Sub-slab Vapor	Indoor Air	Indoor Air	Outdoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Chlorinated VOCs																	
Matrix A																	
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.18 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.087	0.18 U	0.091
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.434	0.421	0.465	0.459	0.478	0.503	0.51	0.428	0.491	0.372	0.403
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	1.77	0.107	8.6	0.107 U	0.107 U	0.107 U	1.1	0.107 U	5.23	0.107 U
Matrix B																	
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	0.884	0.109 U	1.24	0.109 U	0.109 U	0.109 U	0.453	0.109 U	0.655	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	1.38	0.149	1.96	0.136 U	0.136 U	0.136 U	1.48	0.136 U	1.99	0.149
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	11.2	1.74 U
Matrix C																	
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.276	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.116 U	0.051 U
Other																	
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.184	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.18 U	0.079 U
Non-Chlorinated VOCs																	
Benzene	NA	NA	NA	NA	NA	NA	0.367	1.58	0.575	5.85	0.39	0.403	0.441	0.664	0.319 U	6.26	0.319 U
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.313	10.9	1.05	18.6	0.452	0.439	0.126	30.1	8.34	617	7.47
m,p-Xylenes	NA	NA	NA	NA	NA	NA	1.03	39.1	4.34	59.5	1.7	1.65	0.321	94.3	35.7	1690	32.2
o-Xylene	NA	NA	NA	NA	NA	NA	0.4	16.8	1.65	22.4	0.717	0.704	0.122	21.5	12.2	380	11.1
Toluene	NA	NA	NA	NA	NA	NA	1.54	27.1	7.08	43	1.93	1.8	0.524	12.1	1.25	55	1.07
Xylene (Total)	NA	NA	NA	NA	NA	NA	1.43	55.6	5.99	82.1	2.42	2.35	0.443	116	47.8	2070	43.3

Notes and Abbreviations:
All results displayed in micrograms per cubic meter (µg/m3)
Bold indicates a detection about the laboratory reporting limit.
Grey highlight is the outdoor air sample, included for comparison purposes.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-6A
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Building Recommendation									
Monitor One Additional Year									
Location Name	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR6A-OA-1AA 12/20/2022 Field Sample L2271728-09 Outdoor Air	TR6A-SSV-1AS 12/20/2022 Field Sample L2271728-07 Subslab Vapor	TR6A-IA-1AI 12/20/2022 Field Sample L2271728-08 Indoor Air
Sample Date	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3			
Sample Type									
Lab Sample ID	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3			
Soil Description									
Chlorinated VOCs									
Matrix A									
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.206	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.159 U	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.44	32	0.478
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	11.6	0.107
Matrix B									
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	878	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	301	0.197
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	3.47 U	1.74 U
Matrix C									
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.102 U	0.051 U
Other									
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.162 U	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.159 U	0.079 U
Non-Chlorinated VOCs									
Benzene	NA	NA	NA	NA	NA	NA	0.319 U	0.639 U	0.345
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.087	1.36	0.864
m,p-Xylenes	NA	NA	NA	NA	NA	NA	0.256	5.3	3.39
o-Xylene	NA	NA	NA	NA	NA	NA	0.087	2.26	1.38
Toluene	NA	NA	NA	NA	NA	NA	0.377 U	2.33	0.663
Xylene (Total)	NA	NA	NA	NA	NA	NA	0.343	7.56	4.78

Notes and Abbreviations:

All results displayed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Bold indicates a detection about the laboratory reporting limit.

Grey highlight is the outdoor air sample, included for comparison purposes.

TABLE 5
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-7
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Building Recommendation																					
Monitor One Additional Year																					
Location Name Sample Date Sample Type Lab Sample ID Soil Description	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7-OA-1AA 12/19/2022 Field Sample L2271721-17 Outdoor Air	TR7-SSV-1AS 12/19/2022 Field Sample L2271721-01 Subslab Vapor	TR7-IA-1AI 12/19/2022 Field Sample L2271721-02 Indoor Air	TR7-SSV-2AS 12/19/2022 Field Sample L2271721-03 Subslab Vapor	TR7-IA-2AI 12/19/2022 Field Sample L2271721-04 Indoor Air	TR7-SSV-3AS 12/19/2022 Field Sample L2271721-05 Subslab Vapor	TR7-IA-3AI 12/19/2022 Field Sample L2271721-06 Indoor Air	TR7-SSV-4AS 12/19/2022 Field Sample L2271721-07 Subslab Vapor	TR7-SSV-4AS 12/19/2022 Duplicate L2271721-18 Subslab Vapor	TR7-IA-4AI 12/19/2022 Field Sample L2271721-08 Indoor Air	TR7-IA-4AI 12/19/2022 Duplicate L2271721-19 Indoor Air	TR7-SSV-5AS 12/19/2022 Field Sample L2271721-09 Subslab Vapor	TR7-IA-5AI 12/19/2022 Field Sample L2271721-10 Indoor Air	TR7-SSV-6AS 12/19/2022 Field Sample L2271721-11 Subslab Vapor	TR7-IA-6AI 12/19/2022 Field Sample L2271721-12 Indoor Air
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3															
Chlorinated VOCs																					
Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.678	0.722	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	21.6	0.289	0.079 U	0.246	0.238	0.206	47.6	52.7	0.293	0.341	0.17	0.242	0.103	0.234
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.478	0.616	0.528	0.692	0.497	0.535	0.453	0.579	0.522	0.472	0.428	0.547	0.453	0.761	0.535
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	45.1	0.623	9.24	0.591	4.11	0.473	81.7	91.9	0.666	0.779	3.44	0.527	5.64	0.693
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	12.5	0.109 U	15.6	0.109 U	0.747	0.109 U	6.06	6.06	0.109 U	0.109 U	2.52	0.109 U	1.74	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	1.34	0.136 U	0.495	0.136 U	0.427	0.136 U	1.7	2	0.136 U	0.136 U	0.346	0.136 U	0.163	0.136 U
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.629	0.772	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	14.2	0.109	0.935	0.101	0.194	0.093	17.4	18.7	0.117	0.146	0.182	0.093	0.138	0.097
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.63	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.936	1.05	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	0.39	2.38	0.431	0.802	0.415	0.441	0.412	0.428	0.419	0.428	0.47	0.383	0.383	0.658	0.415
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.087	4.07	0.161	98.2	0.169	2.02	0.165	2.19	2.86	0.161 J	1.31 J	1.98	0.143	2.69	0.226
m,p-Xylenes	NA	NA	NA	NA	NA	NA	0.191	12.9	0.491	270	0.521	8.08	0.521	8.82	10.7	0.482 J	0.699 J	8.47	0.443	10.7	0.743
o-Xylene	NA	NA	NA	NA	NA	NA	0.087 U	7.91	0.243	200	0.269	3.58	0.256	6.52	7.17	0.235	0.308	3.55	0.213	4.86	0.347
Toluene	NA	NA	NA	NA	NA	NA	0.433	7.99	0.584	4.79	1.21	3.99	0.584	3.13	3.63	0.584	0.757	3.81	0.569	5.8	0.886
Xylene (Total)	NA	NA	NA	NA	NA	NA	0.191	20.8	0.734	469	0.791	11.7	0.777	15.3	17.9	0.717	1.01	12	0.656	15.6	1.09

Notes and Abbreviations:
All results displayed in micrograms per cubic meter (µg/m3)
Bold indicates a detection about the laboratory reporting limit.
Grey highlight is the outdoor air sample, included for comparison purposes.

TABLE 6
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-7A
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Building Recommendation										
No Additional Monitoring										
Location Name	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7A-SSV-1AS 12/19/2022 Field Sample L2271721-13 Subslab Vapor	TR7A-IA-1AI 12/19/2022 Field Sample L2271721-14 Indoor Air	TR7A-SSV-2AS 12/19/2022 Field Sample L2271721-15 Subslab Vapor	TR7A-IA-2AI 12/19/2022 Field Sample L2271721-16 Indoor Air
Sample Date										
Sample Type										
Lab Sample ID										
Soil Description	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3				
Chlorinated VOCs										
Matrix A										
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	4.48	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.189	0.484	0.522	0.453
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.204	0.107 U	50.7	0.107 U
Matrix B										
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	17.8	0.109 U	87.3	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.522	0.136 U	1.5	0.136 U
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U
Matrix C										
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U
Other										
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	2.23	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.329	0.079 U
Non-Chlorinated VOCs										
Benzene	NA	NA	NA	NA	NA	NA	0.319 U	0.399	0.332	0.403
Ethylbenzene	NA	NA	NA	NA	NA	NA	1.84	0.139	1.25	0.182
m,p-Xylenes	NA	NA	NA	NA	NA	NA	5.82	0.4	5.13	0.573
o-Xylene	NA	NA	NA	NA	NA	NA	2.42	0.182	2.18	0.278
Toluene	NA	NA	NA	NA	NA	NA	2.59	0.614	2.63	0.886
Xylene (Total)	NA	NA	NA	NA	NA	NA	8.25	0.582	7.3	0.851

Notes and Abbreviations:

All results displayed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Bold indicates a detection about the laboratory reporting limit.

TABLE 7
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-12
 CARRIER THOMPSON ROAD FACILITY
 SYRACUSE, NEW YORK

Building Recommendation									
Monitor One Additional Year									
Location Name	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR12-OA-1AA 12/20/2022 Field Sample L2271728-12 Outdoor Air	TR12-SSV-1AS 12/20/2022 Field Sample L2271728-10 Subslab Vapor	TR12-IA-1AI 12/20/2022 Field Sample L2271728-11 Indoor Air
Sample Date									
Sample Type									
Lab Sample ID									
Soil Description	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3			
Chlorinated VOCs									
Matrix A									
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	31.1	0.519
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.465	0.906	0.541
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	181	0.661
Matrix B									
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	8.89	1.04
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	8.34	0.21
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U
Matrix C									
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.087
Other									
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	8.94	0.089
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.781	0.079 U
Non-Chlorinated VOCs									
Benzene	NA	NA	NA	NA	NA	NA	0.319	0.719	2.88
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.148	2.58	2.08
m,p-Xylenes	NA	NA	NA	NA	NA	NA	0.413	10.9	7.99
o-Xylene	NA	NA	NA	NA	NA	NA	0.156	5.78	2.78
Toluene	NA	NA	NA	NA	NA	NA	0.426	5.35	15
Xylene (Total)	NA	NA	NA	NA	NA	NA	0.569	16.7	10.8

Notes and Abbreviations:

All results displayed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Bold indicates a detection about the laboratory reporting limit.

Grey highlight is the outdoor air sample, included for comparison purposes.

TABLE 8
SUMMARY OF ANALYTICAL RESULTS - BUILDING TR-19
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Building Recommendation														
Monitor One Additional Year														
Location Name	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR19-SSV-4AS 12/22/2022 Field Sample L2272323-03 Subslab Vapor	TR19-SSV-4AS 12/22/2022 Duplicate L2272323-11 Subslab Vapor	TR19-IA-4AI 12/22/2022 Field Sample L2272323-14 Indoor Air	TR19-IA-4AI 12/22/2022 Duplicate L2272323-12 Indoor Air	TR19-SSV-5AS 12/22/2022 Field Sample L2272323-05 Subslab Vapor	TR19-IA-5AI 12/22/2022 Field Sample L2272323-15 Indoor Air	TR19-SSV-7AS 12/22/2022 Field Sample L2272323-01 Subslab Vapor	TR19-IA-7AI 12/22/2022 Field Sample L2272323-02 Indoor Air
Sample Date														
Sample Type														
Lab Sample ID														
Soil Description	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3								
Chlorinated VOCs														
Matrix A														
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.293	0.278	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	193	186	0.079 U	0.079 U	0.167	0.079 U	6.11	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.22	0.233	0.421	0.51	0.126 U	0.447	0.145	0.472
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	111	111	0.107 U	0.107 U	0.57	0.107 U	333	0.107 U
Matrix B														
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.344	0.366	0.109 U	0.109 U	0.262	0.109 U	15.4	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	16.7	19.1	0.136 U	0.136 U	0.61	0.136 U	55.1	0.136 U
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	8.06 J	2.48 UJ	1.74 U	1.74 U	1.74 U	3.96	1.74 U	1.74 U
Matrix C														
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	4.22	3.27	0.051 U	0.051 U	0.051 U	0.051 U	0.095	0.051 U
Other														
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.116 U	0.081 U	0.081 U	0.081 U	0.081 U	1.33	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	34.6	33	0.167 J	0.579 J	0.079	0.079 U	0.139	0.079 U
Non-Chlorinated VOCs														
Benzene	NA	NA	NA	NA	NA	NA	0.652	0.856	1.09	1.02	0.319 U	0.843	7.64	0.677
Ethylbenzene	NA	NA	NA	NA	NA	NA	1.12 J	1.65 J	1.26	1.19	33.1	1.09	2.17	0.53
m,p-Xylenes	NA	NA	NA	NA	NA	NA	5.13	6.86	4.6	4.11	191	4.1	10.3	1.81
o-Xylene	NA	NA	NA	NA	NA	NA	2.68	3.57	1.99	1.83	72.5	1.59	3.2	0.747
Toluene	NA	NA	NA	NA	NA	NA	2.13	2.98	2.58	2.23	3.7	1.76	18.6	1.53
Xylene (Total)	NA	NA	NA	NA	NA	NA	7.82	10.4	6.6	5.95	264	5.69	13.5	2.55

Notes and Abbreviations:
All results displayed in micrograms per cubic meter (µg/m3)
Bold indicates a detection about the laboratory reporting limit.

FIGURES

C:\Users\haley.aldrich\OneDrive\GIS\Projects\2021049\GIS\Map\2023_01201049_004_0001_SITE_PLAN.mxd - antichris - 1/16/2023 1:21:15 PM



C:\GIS\haleyaldrich.com\share\CP\Projects\2021049\GIS\Maps\2023_01201049_004_0002_VI_RESULTS_TR4.mxd - anichols - 1/16/2023 1:41:54 PM

TR4-SSV-3/TR4-IA-3	SSV	IA
MATRIX A		
1,1-Dichloroethene	0.511	< 0.079
cis-1,2-Dichloroethene	5.79	0.511
Carbon tetrachloride	0.522	0.516
Trichloroethene	12.4	0.849
MATRIX B		
1,1,1-Trichloroethane	27.6	1.11
Tetrachloroethene	0.726	< 0.136
Methylene chloride	< 1.74	< 1.74
MATRIX C		
Vinyl chloride	< 0.051	< 0.051
OTHER		
1,1-Dichloroethane	6.23	0.486
trans-1,2-Dichloroethene	0.107	< 0.079
Benzene	< 0.319	0.351
Ethylbenzene	1.11	1.36
Toluene	1.93	0.475
m,p-Xylenes	4.52	5.26
o-Xylene	1.81	1.29

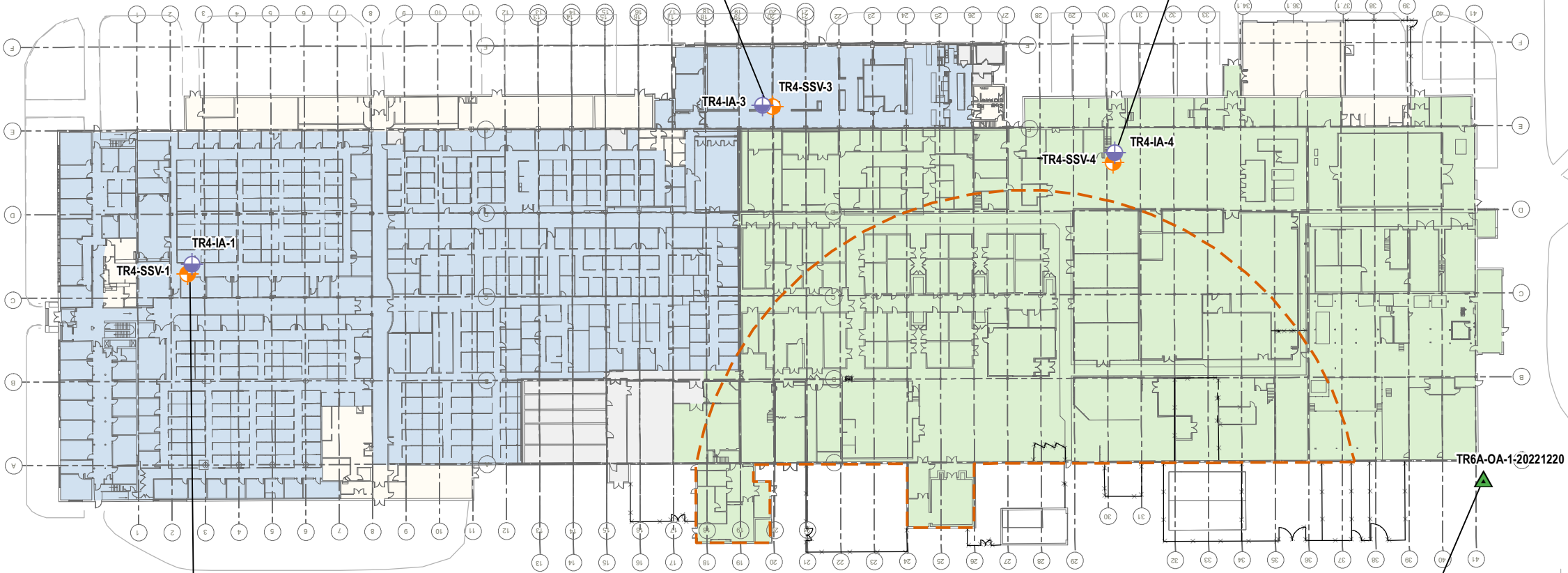
TR4-SSV-4/TR4-IA-4	SSV	IA
MATRIX A		
1,1-Dichloroethene	< 0.079	< 0.079
cis-1,2-Dichloroethene	1.16	0.167
Carbon tetrachloride	0.604	0.478
Trichloroethene	50.1	0.489
MATRIX B		
1,1,1-Trichloroethane	5.57	1.01
Tetrachloroethene	4.73	< 0.136
Methylene chloride	< 1.74	< 1.74
MATRIX C		
Vinyl chloride	< 0.051	< 0.051
OTHER		
1,1-Dichloroethane	0.737	0.142
trans-1,2-Dichloroethene	1.16	0.325
Benzene	0.498	< 0.319
Ethylbenzene	3.5	11.6
Toluene	2.81	1.1
m,p-Xylenes	14.1	46
o-Xylene	4.16	11.5

LEGEND

-  SUB-SLAB SOIL VAPOR SAMPLE
-  INDOOR AIR SAMPLE
-  OUTDOOR AIR SAMPLE
-  ACTIVE SUB-SLAB DEPRESSURIZATION SYSTEM AREA OF INFLUENCE
-  LABORATORY
-  OFFICE
-  WAREHOUSE/STORAGE
-  OTHER

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ONLY SAMPLE LOCATIONS FROM DECEMBER 2022 ARE SHOWN.
3. ANALYTICAL DATA PRESENTED IN MICROGRAMS PER CUBIC METER (µg/m³).
4. SUBSLAB SOIL VAPOR (SSV) AND INDOOR AIR (IA) SAMPLES WERE COLLECTED ON 20 DECEMBER 2022. TR6A-OA IS THE COMPANION OUTDOOR AIR (OA) SAMPLE FOR THE TR-4 SAMPLING EVENT AND WAS COLLECTED ON 20 DECEMBER 2022.
5. < = COMPOUND LESS THAN INDICATED METHOD DETECTION LIMIT
6. SUB-SLAB AREA OF INFLUENCE DATA SOURCE: AECOM, 2022
7. BASE MAP DATA SOURCE: AECOM, 2022



TR4-SSV-1/TR4-IA-1	SSV	IA
MATRIX A		
1,1-Dichloroethene	< 0.079	< 0.079
cis-1,2-Dichloroethene	0.182	0.095
Carbon tetrachloride	0.849	0.484
Trichloroethene	87.1	0.167
MATRIX B		
1,1,1-Trichloroethane	40	0.131
Tetrachloroethene	1.97	< 0.136
Methylene chloride	< 1.74	< 1.74
MATRIX C		
Vinyl chloride	< 0.051	< 0.051
OTHER		
1,1-Dichloroethane	0.364	< 0.081
trans-1,2-Dichloroethene	0.119	< 0.079
Benzene	0.511	< 0.319
Ethylbenzene	1.03	0.104
Toluene	1.88	0.403
m,p-Xylenes	4.2	0.256
o-Xylene	1.66	0.096

TR6A-OA-1-20221220	OA
MATRIX A	
1,1-Dichloroethene	< 0.079
cis-1,2-Dichloroethene	< 0.079
Carbon tetrachloride	0.44
Trichloroethene	< 0.107
MATRIX B	
1,1,1-Trichloroethane	< 0.109
Tetrachloroethene	< 0.136
Methylene chloride	< 1.74
MATRIX C	
Vinyl chloride	< 0.051
OTHER	
1,1-Dichloroethane	< 0.081
trans-1,2-Dichloroethene	< 0.079
Benzene	< 0.319
Ethylbenzene	0.087
Toluene	< 0.377
m,p-Xylenes	0.256
o-Xylene	0.087

HALEY
ALDRICH

CARRIER CORPORATION
THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

INDOOR AIR AND
SUBSLAB SOIL VAPOR DATA
DECEMBER 2022
BUILDING TR-4

FEBRUARY 2023

FIGURE 2

C:\GIS\haleyaldrich.com\share\CP\Projects\201049\GIS\Maps\2023_01201049_004_0003_VI_RESULTS_TR5.mxd - nichols - 1/16/2023 1:44:59 PM

TR5-SSV-1/TR5-IA-1	SSV	IA
MATRIX A		
1,1-Dichloroethene	< 0.079	< 0.079
cis-1,2-Dichloroethene	0.123	< 0.079
Carbon tetrachloride	9.5	0.472
Trichloroethene	28.8	0.242
MATRIX B		
1,1,1-Trichloroethane	169	< 0.109
Tetrachloroethene	1.11	< 0.136
Methylene chloride	< 1.74	< 1.74
MATRIX C		
Vinyl chloride	< 0.051	< 0.051
OTHER		
1,1-Dichloroethane	< 0.081	< 0.081
trans-1,2-Dichloroethene	< 0.079	< 0.079
Benzene	< 0.319	0.658
Ethylbenzene	0.825	0.912
Toluene	1.29	1.5
m,p-Xylenes	3.25	3.3
o-Xylene	1.33	1.06

TR5-SSV-3/TR5-IA-3	SSV	IA
MATRIX A		
1,1-Dichloroethene	< 0.079	< 0.079
cis-1,2-Dichloroethene	0.289	< 0.079
Carbon tetrachloride	0.9	0.522
Trichloroethene	55.9	0.156
MATRIX B		
1,1,1-Trichloroethane	28.8	< 0.109
Tetrachloroethene	1.01	0.224
Methylene chloride	< 1.74	< 1.74
MATRIX C		
Vinyl chloride	< 0.051	< 0.051
OTHER		
1,1-Dichloroethane	0.166	< 0.081
trans-1,2-Dichloroethene	0.107	0.099
Benzene	< 0.319	1.11
Ethylbenzene	4.04	3.02
Toluene	5.13	3.66
m,p-Xylenes	16.5	11.3
o-Xylene	7.69	3.51

TR5-SSV-4/TR5-IA-4	SSV	IA
MATRIX A		
1,1-Dichloroethene	< 0.248	< 0.079
cis-1,2-Dichloroethene	2.39	< 0.079
Carbon tetrachloride	18.7	0.547
Trichloroethene	962	0.774
MATRIX B		
1,1,1-Trichloroethane	726	0.109
Tetrachloroethene	4.37	1.17
Methylene chloride	< 5.42	< 1.74
MATRIX C		
Vinyl chloride	< 0.16	< 0.051
OTHER		
1,1-Dichloroethane	2.29	< 0.081
trans-1,2-Dichloroethene	37	1.88
Benzene	1.94	9.97
Ethylbenzene	207	39.7
Toluene	20.7	41.5
m,p-Xylenes	521	154
o-Xylene	612	48.6

LEGEND

-  SUB-SLAB SOIL VAPOR SAMPLE
-  INDOOR AIR SAMPLE
-  OUTDOOR AIR SAMPLE
-  LABORATORY
-  OFFICE
-  WAREHOUSE/STORAGE
-  OTHER

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ONLY SAMPLE LOCATIONS FROM DECEMBER 2022 ARE SHOWN.
3. ANALYTICAL DATA PRESENTED IN MICROGRAMS PER CUBIC METER (µg/m³).
4. SUBSLAB SOIL VAPOR (SSV), INDOOR AIR (IA), AND OUTDOOR AIR (OA) SAMPLES COLLECTED ON 21 DECEMBER 2022.
5. < = COMPOUND LESS THAN INDICATED METHOD DETECTION LIMIT
6. BASE MAP DATA SOURCE: AECOM, 2022



0 80 160
SCALE IN FEET

HALEY
ALDRICH

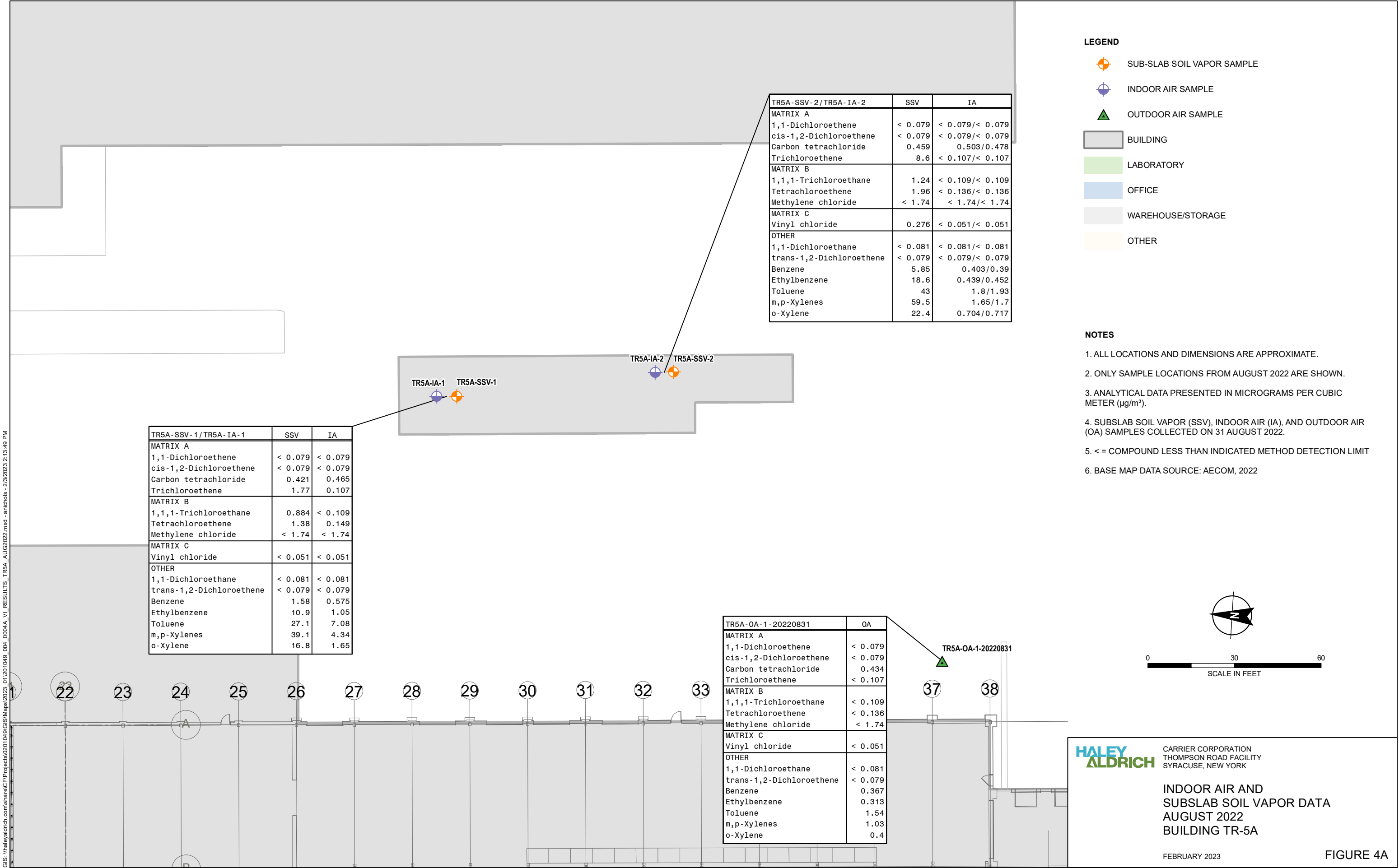
CARRIER CORPORATION
THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

INDOOR AIR AND
SUBSLAB SOIL VAPOR DATA
DECEMBER 2022
BUILDING TR-5

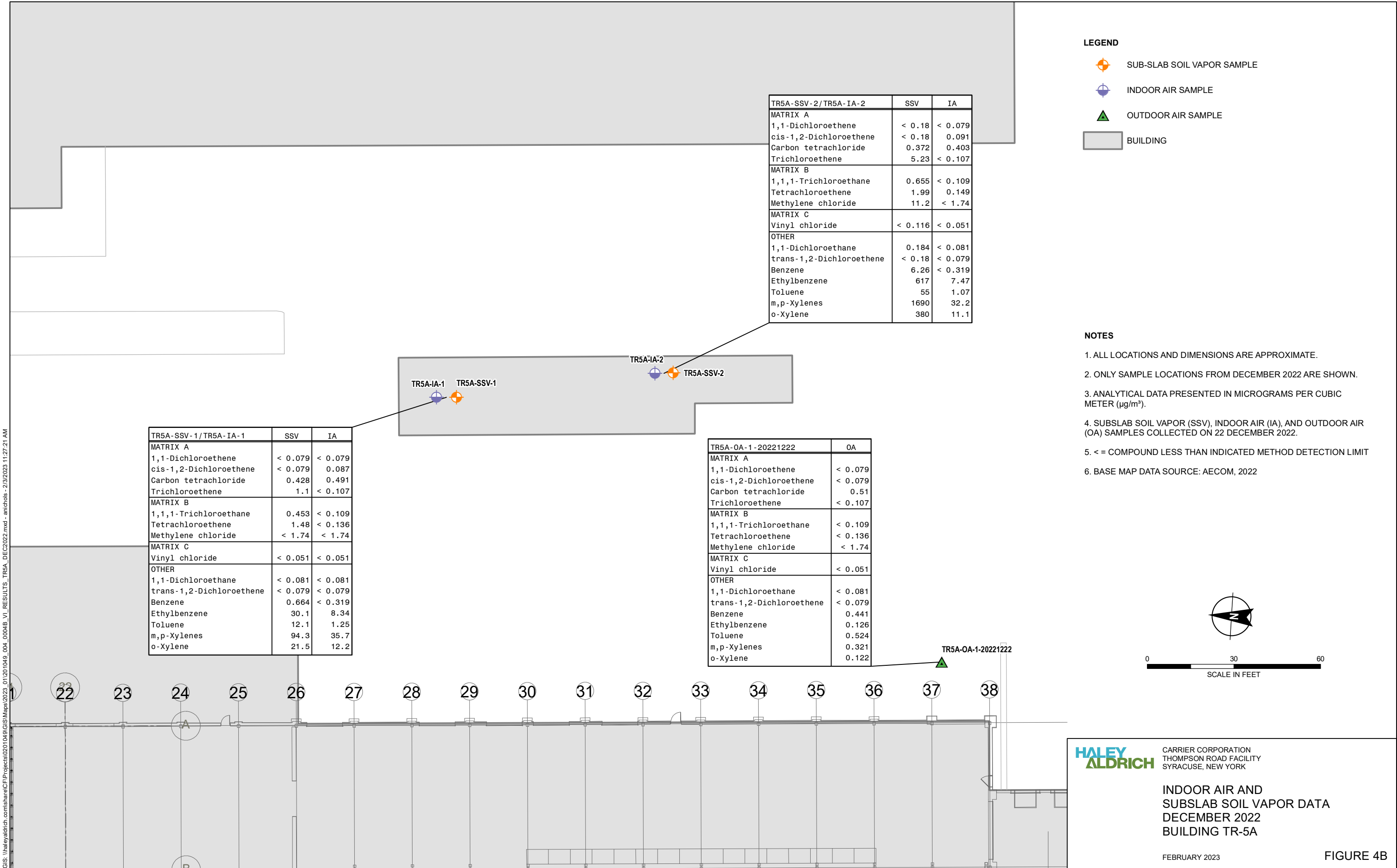
FEBRUARY 2023

FIGURE 3

C:\Users\haley.aldrich\OneDrive\GIS\GIS\Map\2023_01\201049_004_0004A_VI_RESULTS_TR5A_AUG2022.mxd - amichols - 2/9/2023 2:13:49 PM



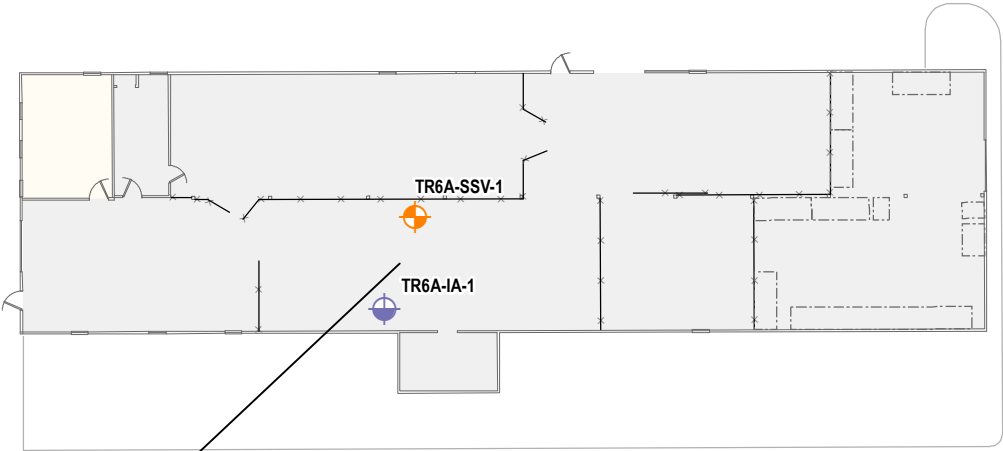
C:\GIS\HaleyAldrich.com\share\CP\Projects\2021049\GIS\Maps\2023_01201049_004_0004B_VI_RESULTS_TR5A_DEC2022.mxd - andhols - 2/3/2023 11:27:21 AM



C:\haley\aldrich.com\share\CP\Projects\2021049\GIS\Maps\2023_01\201049_004_0005_VI_RESULTS_TR6A.mxd - antichols - 1/16/2023 1:49:04 PM

TR6A-OA-1-20221220	OA
MATRIX A	
1,1-Dichloroethene	< 0.079
cis-1,2-Dichloroethene	< 0.079
Carbon tetrachloride	0.44
Trichloroethene	< 0.107
MATRIX B	
1,1,1-Trichloroethane	< 0.109
Tetrachloroethene	< 0.136
Methylene chloride	< 1.74
MATRIX C	
Vinyl chloride	< 0.051
OTHER	
1,1-Dichloroethane	< 0.081
trans-1,2-Dichloroethene	< 0.079
Benzene	< 0.319
Ethylbenzene	0.087
Toluene	< 0.377
m,p-Xylenes	0.256
o-Xylene	0.087

TR6A-OA-1-20221220



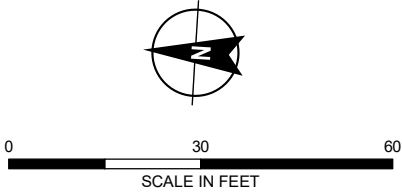
TR6A-SSV-1/TR6A-IA-1	SSV	IA
MATRIX A		
1,1-Dichloroethene	0.206	< 0.079
cis-1,2-Dichloroethene	< 0.159	< 0.079
Carbon tetrachloride	32	0.478
Trichloroethene	11.6	0.107
MATRIX B		
1,1,1-Trichloroethane	878	< 0.109
Tetrachloroethene	301	0.197
Methylene chloride	< 3.47	< 1.74
MATRIX C		
Vinyl chloride	< 0.102	< 0.051
OTHER		
1,1-Dichloroethane	< 0.162	< 0.081
trans-1,2-Dichloroethene	< 0.159	< 0.079
Benzene	< 0.639	0.345
Ethylbenzene	1.36	0.864
Toluene	2.33	0.663
m,p-Xylenes	5.3	3.39
o-Xylene	2.26	1.38

LEGEND

- SUB-SLAB SOIL VAPOR SAMPLE
- INDOOR AIR SAMPLE
- OUTDOOR AIR SAMPLE
- LABORATORY
- OFFICE
- WAREHOUSE/STORAGE
- OTHER

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- ONLY SAMPLE LOCATIONS FROM DECEMBER 2022 ARE SHOWN.
- ANALYTICAL DATA PRESENTED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$).
- SUBSLAB SOIL VAPOR (SSV), INDOOR AIR (IA), AND OUTDOOR AIR (OA) SAMPLES COLLECTED ON 20 DECEMBER 2022.
- < = COMPOUND LESS THAN INDICATED METHOD DETECTION LIMIT
- BASE MAP DATA SOURCE: AECOM, 2022



HALEY
ALDRICH

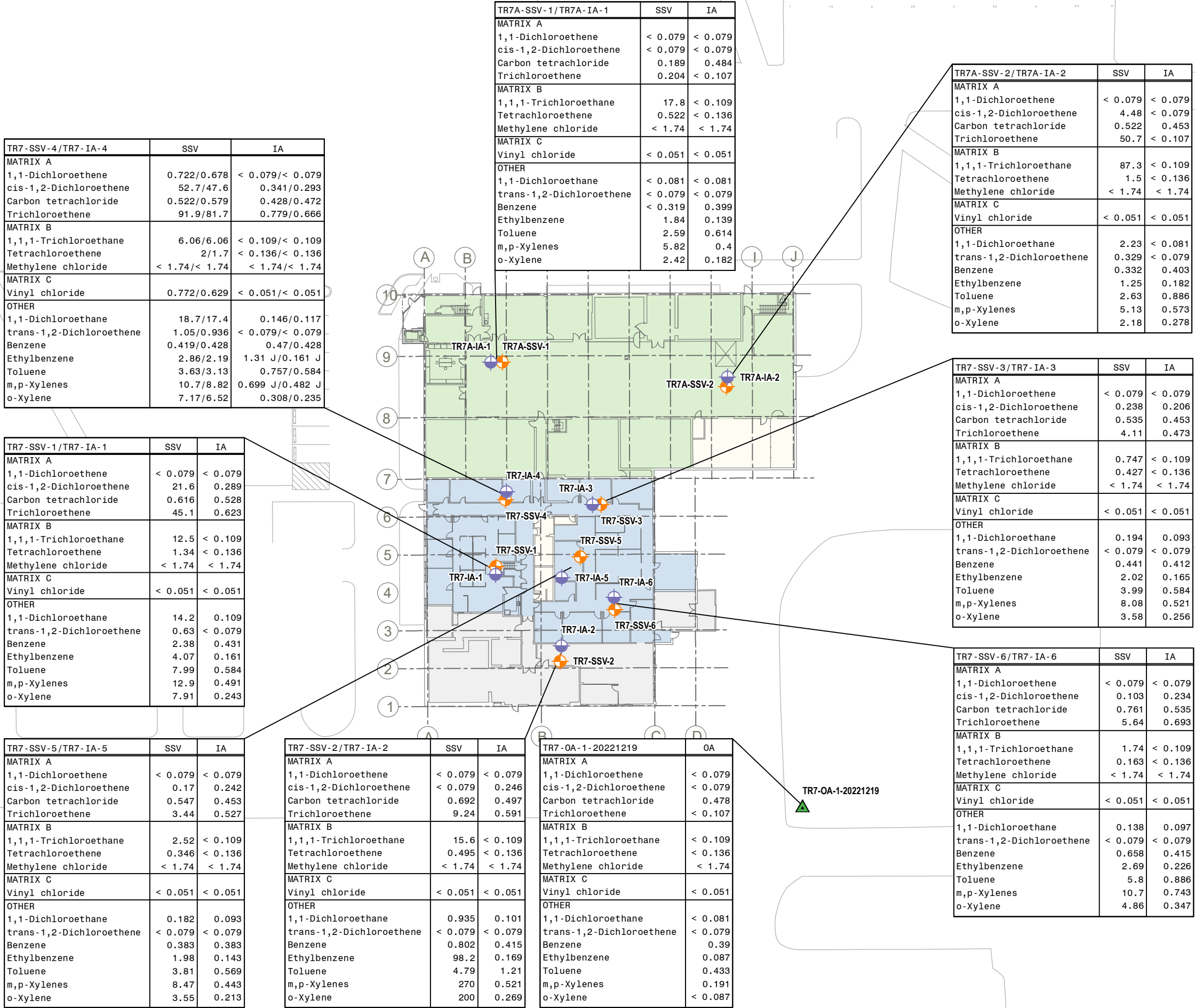
CARRIER CORPORATION
THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

INDOOR AIR AND
SUBSLAB SOIL VAPOR DATA
DECEMBER 2022
BUILDING TR-6A

FEBRUARY 2023

FIGURE 5

C:\GIS\haleyaldrich.com\share\CP\Projects\2021049\GIS\Maps\2023_01201049_004_0006_VI_RESULTS_TR7.mxd - anichols - 1/16/2023 1:52:47 PM



LEGEND

- SUB-SLAB SOIL VAPOR SAMPLE
- INDOOR AIR SAMPLE
- OUTDOOR AIR SAMPLE
- LABORATORY
- OFFICE
- WAREHOUSE/STORAGE
- OTHER

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- ONLY SAMPLE LOCATIONS FROM DECEMBER 2022 ARE SHOWN.
- ANALYTICAL DATA PRESENTED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$).
- SUBSLAB SOIL VAPOR (SSV), INDOOR AIR (IA), AND OUTDOOR AIR (OA) SAMPLES COLLECTED ON 19 DECEMBER 2022.
- < = COMPOUND LESS THAN INDICATED METHOD DETECTION LIMIT
- BASE MAP DATA SOURCE: AECOM, 2022



0 50 100
SCALE IN FEET

HALEY
ALDRICH

CARRIER CORPORATION
THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

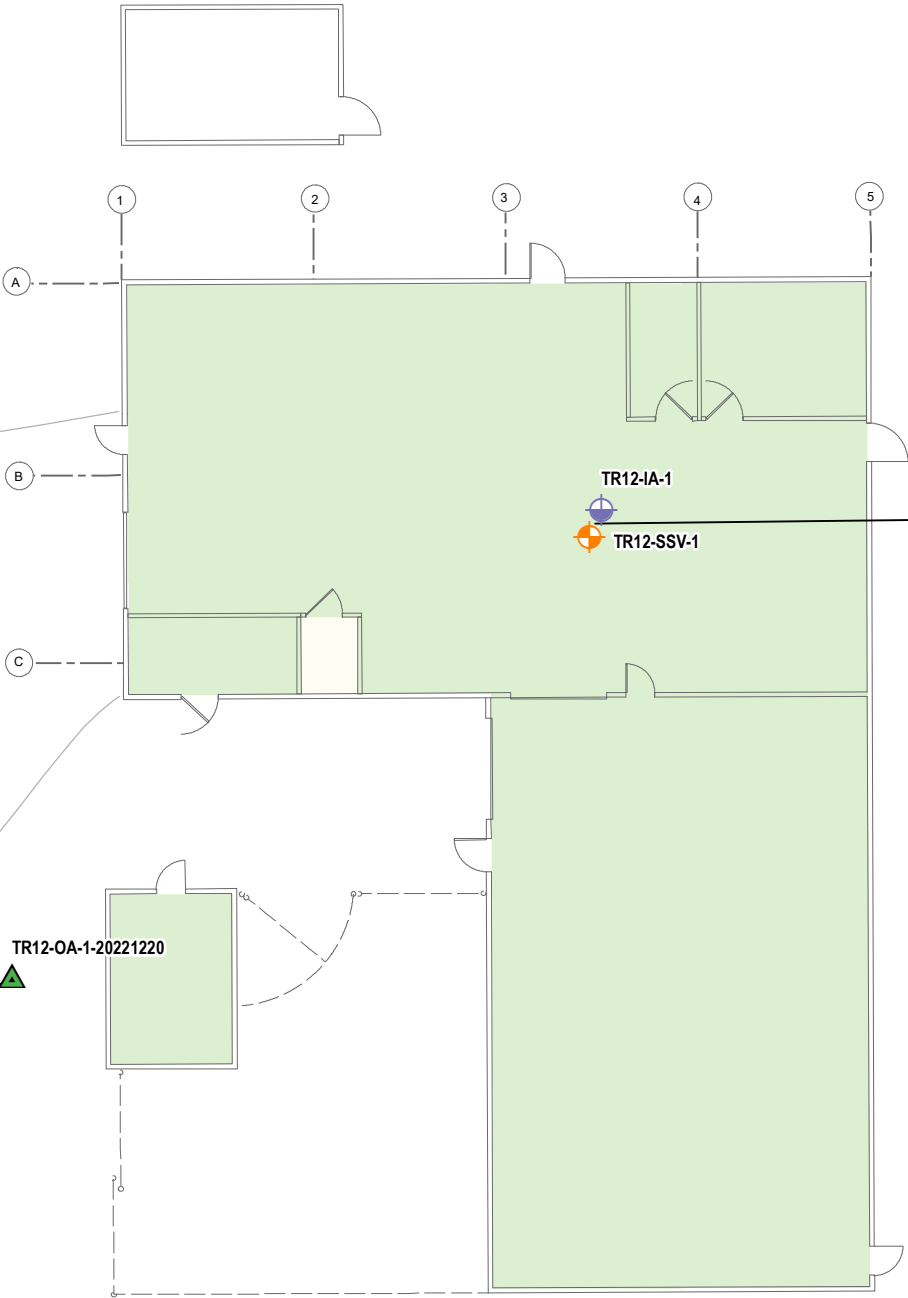
INDOOR AIR AND
SUBSLAB SOIL VAPOR DATA
DECEMBER 2022
BUILDINGS TR-7/TR-7A

FEBRUARY 2023

FIGURE 6

GIS: \\haleyaldrich.com\share\CP\Projects\201049\GIS\Maps\2023_011201049_004_0007_VI_RESULTS_TR12.mxd - anichols - 1/16/2023 1:56:05 PM

TR12-OA-1-20221220	OA
MATRIX A	
1,1-Dichloroethene	< 0.079
cis-1,2-Dichloroethene	< 0.079
Carbon tetrachloride	0.465
Trichloroethene	< 0.107
MATRIX B	
1,1,1-Trichloroethane	< 0.109
Tetrachloroethene	< 0.136
Methylene chloride	< 1.74
MATRIX C	
Vinyl chloride	< 0.051
OTHER	
1,1-Dichloroethane	< 0.081
trans-1,2-Dichloroethene	< 0.079
Benzene	0.319
Ethylbenzene	0.148
Toluene	0.426
m,p-Xylenes	0.413
o-Xylene	0.156



TR12-SSV-1/TR12-IA-1	SSV	IA
MATRIX A		
1,1-Dichloroethene	< 0.079	< 0.079
cis-1,2-Dichloroethene	31.1	0.519
Carbon tetrachloride	0.906	0.541
Trichloroethene	181	0.661
MATRIX B		
1,1,1-Trichloroethane	8.89	1.04
Tetrachloroethene	8.34	0.21
Methylene chloride	< 1.74	< 1.74
MATRIX C		
Vinyl chloride	< 0.051	0.087
OTHER		
1,1-Dichloroethane	8.94	0.089
trans-1,2-Dichloroethene	0.781	< 0.079
Benzene	0.719	2.88
Ethylbenzene	2.58	2.08
Toluene	5.35	15
m,p-Xylenes	10.9	7.99
o-Xylene	5.78	2.78

LEGEND

- SUB-SLAB SOIL VAPOR SAMPLE
- INDOOR AIR SAMPLE
- OUTDOOR AIR SAMPLE
- LABORATORY
- OFFICE
- WAREHOUSE/STORAGE
- OTHER

- NOTES**
- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 - ONLY SAMPLE LOCATIONS FROM DECEMBER 2022 ARE SHOWN.
 - ANALYTICAL DATA PRESENTED IN MICROGRAMS PER CUBIC METER (µg/m³).
 - SUBSLAB SOIL VAPOR (SSV), INDOOR AIR (IA), AND OUTDOOR AIR (OA) SAMPLES COLLECTED ON 20 DECEMBER 2022.
 - < = COMPOUND LESS THAN INDICATED METHOD DETECTION LIMIT
 - BASE MAP DATA SOURCE: AECOM, 2022



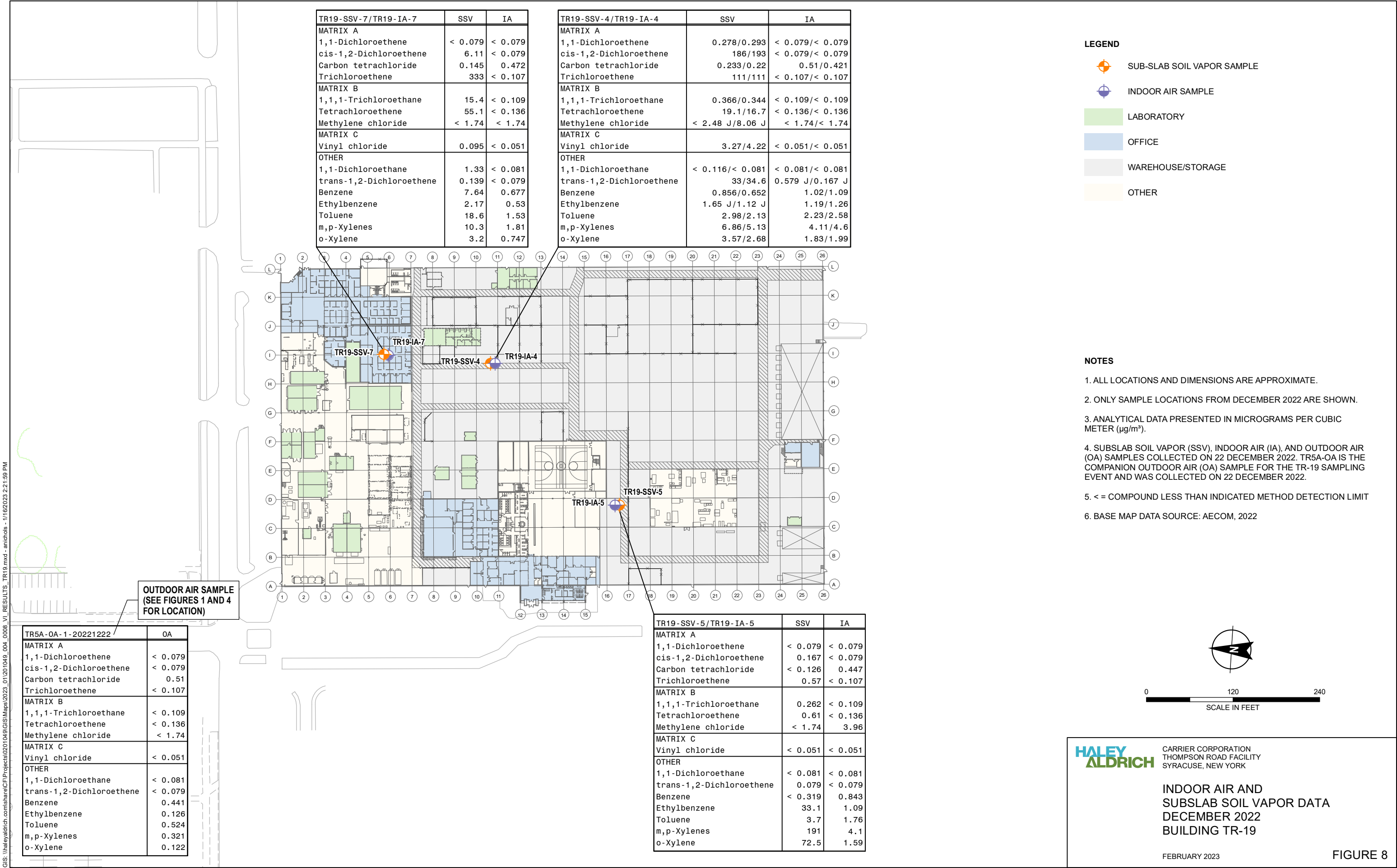
CARRIER CORPORATION
THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

INDOOR AIR AND
SUBSLAB SOIL VAPOR DATA
DECEMBER 2022
BUILDING TR-12

FEBRUARY 2023

FIGURE 7

C:\GIS\haleyaldrich.com\share\CP\Projects\2021\049\GIS\Maps\2023_01\20\1049_004_0008_VI_RESULTS_TR19.mxd - antichols - 1/16/2023 2:21:59 PM



Soil Vapor/Indoor Air Matrix A

May 2017

Analytes Assigned:

Trichloroethene (TCE), *cis*-1,2-Dichloroethene (c12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m ³)		
	< 0.2	0.2 to < 1	1 and above
< 6	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

Soil Vapor/Indoor Air Matrix B

May 2017

Analytes Assigned:

Tetrachloroethene (PCE), 1,1,1-Trichloroethane (111-TCA), Methylene Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m ³)		
	< 3	3 to < 10	10 and above
< 100	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

Soil Vapor/Indoor Air Matrix C

May 2017

Analytes Assigned:

Vinyl Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m ³)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m ³)	
	< 0.2	0.2 and above
< 6	1. No further action	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	3. MONITOR	4. MITIGATE
60 and above	5. MITIGATE	6. MITIGATE



CARRIER CORPORATION
THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

SOIL VAPOR/INDOOR AIR MATRICES

FEBRUARY 2023

FIGURE 9

APPENDIX A
Field Sampling Forms, Photographs, Indoor Air Quality
Questionnaire, and Building Inventory Forms

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/19/22

Sample #	TR7-SSV-1	TR7-IA-1	TR7-SSV-2	TR7-IA-2	TR7-SSV-6
Location					
Summa Canister ID	3900	2312	467	2761	2858
Flow Controller ID	02154	01663	01308	0724	01079
Additional Tubing Added	NO/YES How much? 3'	NO/YES How much? 3'	NO/YES How much? 3'	NO/YES How much? 3'	NO/YES How much? 3'
Purge Time (Start)	0731		0745		0755
Purge Time (Stop)	0736		0750		0800
Total Purge Time (min)	5		5		5
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results	0 ppm		500 ppm		750 ppm
PID (ppb)	518 ppb		834 ppb		1583 ppb
CH ₄ (ppm)	0		0		0
O ₂ (%)	20.9		20.9		20.8
CO ₂	0		0		0
H ₂ S (ppm)	NA		NA		NA
Pressure Gauge - before sampling	Gauge Regulator -29.8	Gauge Regulator -29.5	Gauge Regulator -29.53	Gauge Regulator -29.83	Gauge Regulator -29.79
Sample Time (Start)	0738	0739	0755	0756	0805
Sample Time (Stop)	1530	1539	1555	1556	1412
Total Sample Time (min)	472	480	480	480	367
Pressure Gauge - after sampling	Gauge Regulator 5.00	Gauge Regulator -7.62	Gauge Regulator -7.25	Gauge Regulator -7.01	Gauge Regulator -4.66
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES (NO)	YES (NO)	YES (NO)	YES (NO)	YES (NO)
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/19/22

Sample #	TR7-IA-6	TR7-SSV-5	TR7-IA-5	TR7-SSV-3	TR7-IA-3
Location					
Summa Canister ID	2879 261	2194	330	540	2038
Flow Controller ID	01395 0622	0085	0032	0433	0084
Additional Tubing Added	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?
Purge Time (Start)		0808		0817	
Purge Time (Stop)		0813		0822	
Total Purge Time (min)		5		5	
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results		200 ppm		125 ppm	
PID (ppb)		1752 ppb		1474 ppb	
CH ₄ (ppm)		0		0	
O ₂ (%)		20.9		20.9	
CO ₂		0		0	
H ₂ S (ppm)		NA		NA	
Pressure Gauge - before sampling	Gauge Regulator 23.85	Gauge Regulator 30.85	Gauge Regulator 29.43	Gauge Regulator 29.81	Gauge Regulator 29.22
Sample Time (Start)	0812	0817	0818	0828	0829
Sample Time (Stop)	1612	1526	1618	1609	1629
Total Sample Time (min)	480	429	480	461	480
Pressure Gauge - after sampling	Gauge Regulator -7.05	Gauge Regulator -4.90	Gauge Regulator -5.05	Gauge Regulator -5.01	Gauge Regulator -4.97
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES NO	YES NO	YES NO	YES NO	YES NO
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/19/22

Sample #	TR7-SSV-4	FD-35V-12H22-1 TR7-EC	TR7-IA-4	FD-IA-12H22-1	TR7-OA-1
Location		TR7-SSV-4		TR7-IA-4	outside
Summa Canister ID	2227	535	1066	2609	394
Flow Controller ID	02180	01464	0162	01097	0766
Additional Tubing Added	NO/YES How much? 3'	NO/YES How much? 3'	NO/YES How much?	NO/YES How much?	NO/YES How much?
Purge Time (Start)	0828				0907
Purge Time (Stop)	0833				
Total Purge Time (min)	5				
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results	100 ppm				
PID (ppb)	1439				
CH ₄ (ppm)	0				
O ₂ (%)	20.9				
CO ₂	0				
H ₂ S (ppm)	N/A				
Pressure Gauge - before sampling	Gauge 29.49	Gauge 29.90	Gauge 29.07	Gauge 29.62	Gauge 30.1
Sample Time (Start)	0837	0837	0838	0838	0907
Sample Time (Stop)	1637	1637	1638	1638	1655
Total Sample Time (min)	480	480	480	480	468
Pressure Gauge - after sampling	Gauge 7.33	Gauge 7.66	Gauge 7.17	Gauge 7.92	Gauge -4.73
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES (NO)	YES (NO)	YES (NO)	YES (NO)	YES (NO)
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/19/22

Sample #	TR7A-SSV-1	TR7A-IA-1	TR7A-SSV-2	TR7A-IA-2	
Location					
Summa Canister ID	3246	455	2738	2822	
Flow Controller ID	0988	01651	0059	0963	
Additional Tubing Added	NO/YES How much? 3'	NO/YES How much?	NO/YES How much? 3	NO/YES How much?	NO/YES How much?
Purge Time (Start)	0840		0850		
Purge Time (Stop)	0845		0855		
Total Purge Time (min)	5		5		
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results	0 ppm		0 ppm		
PID (ppb)	1662		1497		
CH ₄ (ppm)	0		0		
O ₂ (%)	19.5		19.7		
CO ₂	1.6		0.3		
H ₂ S (ppm)	N/A		N/A		
Pressure Gauge - before sampling	Gauge Regulator 29.88	Gauge Regulator 29.88	Gauge Regulator 28.61	Gauge Regulator 29.80	Gauge Regulator
Sample Time (Start)	0848	0849	0901	0900	
Sample Time (Stop)	1648	1649	1630	1700	
Total Sample Time (min)	480	480	449	480	
Pressure Gauge - after sampling	Gauge Regulator 4.51	Gauge Regulator 6.05	Gauge Regulator -4.50	Gauge Regulator -5.44	Gauge Regulator
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	6 Liters
Canister Pressure Went To Ambient Pressure?	YES (NO)	YES (NO)	YES (NO)	YES (NO)	YES / NO
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/20/22

Sample #	TR4-SSV-1	TR4-JA-1	TR4-SSV-3	TR4-JA-3	TR4-SSV-4
Location					
Summa Canister ID	3231	551	2230	1470	3199
Flow Controller ID	0010	01304	01006	01470	01503
Additional Tubing Added	NO/YES How much? 3'	NO/YES How much?	NO/YES How much? 3'	NO/YES How much?	NO/YES How much? 3'
Purge Time (Start)	0726		0740		0752
Purge Time (Stop)	0731		0745		0757
Total Purge Time (min)	5		5		5
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results	125 ppm		0 ppm		0 ppm
PID (ppb)	1152		1262		1699
CH ₄ (ppm)	0		0		0
O ₂ (%)	20.9		20.9		20.6
CO ₂	0.2		0.0		0.1
H ₂ S (ppm)	N/A		N/A		N/A
Pressure Gauge - before sampling	Gauge Regulator -30.35	Gauge Regulator -30.03	Gauge Regulator -30.10	Gauge Regulator -29.92	Gauge Regulator -30.35
Sample Time (Start)	0734	0735	0748	0749	0801
Sample Time (Stop)	1102	1535	1548	1549	1601
Total Sample Time (min)	208	480	480	480	480
Pressure Gauge - after sampling	Gauge Regulator -5.00	Gauge Regulator -6.13	Gauge Regulator 5.20	Gauge Regulator -4.80	Gauge Regulator -6.90
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES (NO)	YES (NO)	YES (NO)	YES (NO)	YES (NO)
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/20/22

Sample #	TR4-IA-4	TR6A-SSV-1	TR6A-IA-1	TR6A-0A-1	TR12-SSV-1
Location					
Summa Canister ID	386	213149	3730	1734	3114
Flow Controller ID	02187	01471	02088	01413	01369
Additional Tubing Added	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?
Purge Time (Start)		0814			0844
Purge Time (Stop)		0819			0849
Total Purge Time (min)		5			5
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results		575 ppm			525 ppm
PID (ppb)		1062			989
CH ₄ (ppm)		0			0
O ₂ (%)		18.3			20.9
CO ₂		2.8			0.3
H ₂ S (ppm)		N/A			N/A
Pressure Gauge - before sampling	Gauge Regulator -29.99	Gauge Regulator -29.80	Gauge Regulator 30.40	Gauge Regulator -30.51	Gauge Regulator -30.40
Sample Time (Start)	0802	0825	0826	0830	0852
Sample Time (Stop)	1602	1625	1621	1630	1652
Total Sample Time (min)	480	480	475	480	480
Pressure Gauge - after sampling	Gauge Regulator -5.46	Gauge Regulator -4.79	Gauge Regulator -3.25	Gauge Regulator -6.38	Gauge Regulator -6.55
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES (NO)	YES (NO)	YES (NO)	YES (NO)	YES (NO)
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/20/22

Sample #	TR12-IA-1		TR12-OA-1							
Location										
Summa Canister ID	2825		2361							
Flow Controller ID	01788		01512							
Additional Tubing Added	NO/YES How much?		NO/YES How much?		NO/YES How much?		NO/YES How much?		NO/YES How much?	
Purge Time (Start)										
Purge Time (Stop)										
Total Purge Time (min)										
Purge Volume	1 Liter		1 Liter		1 Liter		1 Liter		1 Liter	
Initial Tracer Gas Results										
PIID (ppb)										
CH ₄ (ppm)										
O ₂ (%)										
CO ₂										
H ₂ S (ppm)										
Pressure Gauge - before sampling	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator
		+30.24		-30.50						
Sample Time (Start)	0853		0857							
Sample Time (Stop)	1755		1657							
Total Sample Time (min)	542		480							
Pressure Gauge - after sampling	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator
		-14.82		-3.00						
Sample Volume	2.2 Liters		2.3 Liters		6 Liters		6 Liters		6 Liters	
Canister Pressure Went To Ambient Pressure?	YES (NO)		YES (NO)		YES / NO		YES / NO		YES / NO	
General Comments:										

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/21/22

Sample #	TR5-SSV-1	TR5-IA-1	TR5-SSV-2	FD-SSV-122122	TR5-IA-2
Location				Duplicate of TR5-SSV-2	
Summa Canister ID	237	3884	2420	2374	2279
Flow Controller ID	01661	0811	0411	01295	01476
Additional Tubing Added	NO YES How much? 3'	NO YES How much?	NO YES How much? 3'	NO YES How much? 3'	NO YES How much?
Purge Time (Start)	0718		0735		
Purge Time (Stop)	0723		0740		
Total Purge Time (min)	5		5		
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results	0		300		
PID (ppb)	1332		4991		
CH ₄ (ppm)	0		0		
O ₂ (%)	20.9		20.8		
CO ₂	0.2		0		
H ₂ S (ppm)	N/A		N/A		
Pressure Gauge - before sampling	Gauge Regulator -30.30	Gauge Regulator -29.88	Gauge Regulator -29.71	Gauge Regulator -29.71 -30.09	Gauge Regulator -30.09 -30.13
Sample Time (Start)	0729	0730	0747	0747	0748
Sample Time (Stop)	1529	1523	1547	1547	1548
Total Sample Time (min)	480	473	480	480	480
Pressure Gauge - after sampling	Gauge Regulator -7.17	Gauge Regulator -3.90	Gauge Regulator -6.68	Gauge Regulator -5.87	Gauge Regulator -8.20
Sample Volume	2.3 Liters	2.3 Liters	2.3 Liters	2.3 Liters	2.3 Liters
Canister Pressure Went To Ambient Pressure?	YES NO	YES NO	YES NO	YES NO	YES NO
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/21/22

Sample #	FD-IA-1222	TR5-SSV-3	TR5-IA-3	TR5-SSV-4	TR5-IA-4
Location	Duplicate of TR5-IA-2				
Summa Canister ID	3744	3201	2737	2205	489
Flow Controller ID	01786	02056	01728	01697	0905
Additional Tubing Added	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?
Purge Time (Start)		0747		0808	
Purge Time (Stop)		0752		0813	
Total Purge Time (min)		5		5	
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results		0		0	
PID (ppb)		2703		2770	
CH ₄ (ppm)		0.0		0.0	
O ₂ (%)		20.6		20.5	
CO ₂		0.1		0.2	
H ₂ S (ppm)		N/A		N/A	
Pressure Gauge - before sampling	Gauge Regulator -29.92	Gauge Regulator -30.03	Gauge Regulator -29.81	Gauge Regulator -30.02	Gauge Regulator -30.18
Sample Time (Start)	0748	0759	0800	0818	0819
Sample Time (Stop)	1548	1559	1600	1618	1619
Total Sample Time (min)	480	480	480	480	480
Pressure Gauge - after sampling	Gauge Regulator -6.60	Gauge Regulator -7.55	Gauge Regulator -5.65	Gauge Regulator -7.30	Gauge Regulator -6.25
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES NO	YES NO	YES NO	YES NO	YES NO
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/21/22

Sample #	TR5-SSV-5		TR5-IA-5		TR5-DA-1			
Location								
Summa Canister ID	208		3743		418			
Flow Controller ID	01655		02067		0126			
Additional Tubing Added	NO/YES How much? 3'		NO/YES How much?		NO/YES How much?		NO/YES How much?	NO/YES How much?
Purge Time (Start)	0821							
Purge Time (Stop)	0826							
Total Purge Time (min)	5							
Purge Volume	1 Liter		1 Liter		1 Liter		1 Liter	1 Liter
Initial Tracer Gas Results	0							
PID (ppb)	2050							
CH ₄ (ppm)	0							
O ₂ (%)	20.9							
CO ₂	0.1							
H ₂ S (ppm)	N/A							
Pressure Gauge - before sampling	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator
		-30.20		-30.13		-30.30		
Sample Time (Start)	0827		0828		0837			
Sample Time (Stop)	1627		1628		1637			
Total Sample Time (min)	480		480		450			
Pressure Gauge - after sampling	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator
		-6.20		-5.00		-4.63		
Sample Volume	2.7 Liters		2.7 Liters		2.7 Liters		6 Liters	6 Liters
Canister Pressure Went To Ambient Pressure?	YES / NO		YES / NO		YES / NO		YES / NO	YES / NO
General Comments:								

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/21/22

Sample #	TR5-SSV-1	TR5-IA-1	TR5-SSV-2	FD-SSV-122122	TR5-IA-2
Location				Duplicate of TR5-SSV-2	
Summa Canister ID	237	3884	2420	2374	2279
Flow Controller ID	01661	0811	0411	01295	01476
Additional Tubing Added	NO YES How much? 3'	NO YES How much?	NO YES How much? 3'	NO YES How much? 3'	NO YES How much?
Purge Time (Start)	0718		0735		
Purge Time (Stop)	0723		0740		
Total Purge Time (min)	5		5		
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results	0		300		
PID (ppb)	1332		4991		
CH ₄ (ppm)	0		0		
O ₂ (%)	20.9		20.8		
CO ₂	0.2		0		
H ₂ S (ppm)	N/A		N/A		
Pressure Gauge - before sampling	Gauge Regulator -30.30	Gauge Regulator -29.88	Gauge Regulator -29.71	Gauge Regulator -29.71 -30.09	Gauge Regulator -30.09 -30.13
Sample Time (Start)	0729	0730	0747	0747	0748
Sample Time (Stop)	1529	1523	1547	1547	1548
Total Sample Time (min)	480	473	480	480	480
Pressure Gauge - after sampling	Gauge Regulator -7.17	Gauge Regulator -3.90	Gauge Regulator -6.68	Gauge Regulator -5.87	Gauge Regulator -8.20
Sample Volume	2.3 Liters	2.3 Liters	2.3 Liters	2.3 Liters	2.3 Liters
Canister Pressure Went To Ambient Pressure?	YES NO	YES NO	YES NO	YES NO	YES NO
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/21/22

Sample #	FD-IA-1222	TR5-SSV-3	TR5-IA-3	TR5-SSV-4	TR5-IA-4
Location	Duplicate of TR5-IA-2				
Summa Canister ID	3744	3201	2737	2205	489
Flow Controller ID	01786	02056	01728	01697	0905
Additional Tubing Added	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?	NO YES How much?
Purge Time (Start)		0747		0808	
Purge Time (Stop)		0752		0813	
Total Purge Time (min)		5		5	
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results		0		0	
PID (ppb)		2703		2770	
CH ₄ (ppm)		0.0		0.0	
O ₂ (%)		20.6		20.5	
CO ₂		0.1		0.2	
H ₂ S (ppm)		N/A		N/A	
Pressure Gauge - before sampling	Gauge Regulator -29.92	Gauge Regulator -30.03	Gauge Regulator -29.81	Gauge Regulator -30.02	Gauge Regulator -30.18
Sample Time (Start)	0748	0759	0800	0818	0819
Sample Time (Stop)	1548	1559	1600	1618	1619
Total Sample Time (min)	480	480	480	480	480
Pressure Gauge - after sampling	Gauge Regulator -6.60	Gauge Regulator -7.55	Gauge Regulator -5.65	Gauge Regulator -7.30	Gauge Regulator -6.25
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES NO	YES NO	YES NO	YES NO	YES NO
General Comments:					

Summa Canister Sampling Field Data Sheet

Site: Carrier - Thompson Road
 Samplers: Rob Murphy, Tom Urban
 Date: 12/21/22

Sample #	TR5-SSV-5		TR5-IA-5		TR5-DA-1			
Location								
Summa Canister ID	208		3743		418			
Flow Controller ID	01655		02067		0126			
Additional Tubing Added	NO/YES How much? 3'		NO/YES How much?		NO/YES How much?		NO/YES How much?	NO/YES How much?
Purge Time (Start)	0821							
Purge Time (Stop)	0826							
Total Purge Time (min)	5							
Purge Volume	1 Liter		1 Liter		1 Liter		1 Liter	1 Liter
Initial Tracer Gas Results	0							
PID (ppb)	2050							
CH ₄ (ppm)	0							
O ₂ (%)	20.9							
CO ₂	0.1							
H ₂ S (ppm)	N/A							
Pressure Gauge - before sampling	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator
		-30.20		-30.13		-30.30		
Sample Time (Start)	0827		0828		0837			
Sample Time (Stop)	1627		1628		1637			
Total Sample Time (min)	480		480		480			
Pressure Gauge - after sampling	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator	Gauge	Regulator
		-6.20		-5.00		-6.63		
Sample Volume	2.7 Liters		2.7 Liters		2.7 Liters		6 Liters	6 Liters
Canister Pressure Went To Ambient Pressure?	YES / NO		YES / NO		YES / NO		YES / NO	YES / NO
General Comments:								

Summa Canister Sampling Field Data Sheet

Site: TRSA
 Samplers: R. MURRAY
 Date: 8/31/22

Sample #	TRSA-SSV-1	TRSA-IA-1	TRSA-SSV-2	TRSA-IA-2	FD-IA-083122
Location					
Summa Canister ID	399	223	383	2197	536
Flow Controller ID	0326	01622	01633	01662	0406
Additional Tubing Added	NO/YES How much? <u>1-3'</u>	NO/YES How much?	NO/YES How much? <u>3'</u>	NO/YES How much?	NO/YES How much?
Purge Time (Start)	0801	~~0822~~	0822		
Purge Time (Stop)	0806	~~0827~~	0827		
Total Purge Time (min)	5	<u>5</u> min	5		
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results	8600 ppm		3450 ppm		
PID (ppb)	1083 ppb		1281 ppb		
CH ₄ (ppm)	0.0		0.0		
O ₂ (%)	20.9		20.9		
CO ₂	0.1		0.1		
H ₂ S (ppm)	0.0		0.0		
Pressure Gauge - before sampling	Gauge: <u>29.40</u> Regulator: <u>29.40</u>	Gauge: <u>-29.57</u> Regulator: <u>-29.57</u>	Gauge: <u>-29.35</u> Regulator: <u>-29.35</u>	Gauge: <u>-29.33</u> Regulator: <u>-29.33</u>	Gauge: <u>-29.80</u> Regulator: <u>-29.80</u>
Sample Time (Start)	0811	0811	0835	0835	0835
Sample Time (Stop)	1611	1611	1635	1635	1635
Total Sample Time (min)	480	480	480	480	480
Pressure Gauge - after sampling	Gauge: <u>-6.50</u> Regulator: <u>-6.50</u>	Gauge: <u>-8.94</u> Regulator: <u>-8.94</u>	Gauge: <u>-7.94</u> Regulator: <u>-7.94</u>	Gauge: <u>-7.39</u> Regulator: <u>-7.39</u>	Gauge: <u>-5.80</u> Regulator: <u>-5.80</u>
Sample Volume	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters	2.7 Liters
Canister Pressure Went To Ambient Pressure?	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
General Comments:					Duplicate of ~~FD-IA-083122~~ TRSA-IA-2
	198 ppb	198 ppb Bkg		187 ppb Bkg	

Summa Canister Sampling Field Data Sheet

Site: TRSA -
 Samplers: R. Mullen
 Date: 8/31/22

Sample #	TRSA-0A-1					
Location	SOUTH END OUTDOOR					
Summa Canister ID	2591					
Flow Controller ID	0159					
Additional Tubing Added	☒ YES How much?	NO/YES How much?	NO/YES How much?	NO/YES How much?	NO/YES How much?	NO/YES How much?
Purge Time (Start)						
Purge Time (Stop)						
Total Purge Time (min)						
Purge Volume	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter	1 Liter
Initial Tracer Gas Results						
PID (ppb)						
CH ₄ (ppm)						
O ₂ (%)						
CO ₂						
H ₂ S (ppm)						
Pressure Gauge - before sampling	Gauge	Regulator -29.28	Gauge	Regulator	Gauge	Regulator
Sample Time (Start)	0840					
Sample Time (Stop)	1640					
Total Sample Time (min)	480					
Pressure Gauge - after sampling	Gauge	Regulator -6.71	Gauge	Regulator	Gauge	Regulator
Sample Volume	23.8 Liters		6 Liters	6 Liters	6 Liters	6 Liters
Canister Pressure Went To Ambient Pressure?	YES / NO		YES / NO	YES / NO	YES / NO	YES / NO
General Comments:						

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Ton Urban/Rob Murphy Date/Time Prepared 12/8/21 @ 1200pm

Preparer's Affiliation AECOM Phone No. No Changes observed on 12/20/2022

Purpose of Investigation SUI Investigation

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: TR-4

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: Office /catereria/ Labs

If the property is residential, type? (Circle appropriate response)

Ranch
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

N/A

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) air conditioning R & R

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? _____

Other characteristics:

Number of floors 1

Building age N/A

Is the building insulated? Y (N)

How air tight? Tight Average Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

floor drains, pumps

Outdoor air infiltration

main doors / bay doors

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other N/A
- c. Basement floor: concrete dirt stone other N/A
- d. Basement floor: uncovered covered covered with N/A
- e. Concrete floor: unsealed sealed sealed with tile + 2 part epoxy
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy N/A
- i. The basement is: finished unfinished partially finished N/A
- j. Sump present? Y N
- k. Water in sump? Y N not applicable

Basement/Lowest level depth below grade: _____ (feet) slab on grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

sumps, floor drains

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply - note primary)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: unknown

Boiler/furnace located in: Basement Outdoors Main Floor Other rooftop

Air conditioning: Central Air Window units Open Windows None

rooftop

Are there air distribution ducts present? ☒ Y ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

tight ceiling to floor units

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)

Basement

N/A

1st Floor

offices - research labs

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y ☒ N

b. Does the garage have a separate heating unit?

Y / N ☒ NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y ☒ N / NA

Please specify _____

d. Has the building ever had a fire?

Y / N When? N/A

e. Is a kerosene or unvented gas space heater present?

Y ☒ N Where? _____

f. Is there a workshop or hobby/craft area?

Y / N Where & Type? labs

g. Is there smoking in the building?

Y ☒ N How frequently? _____

h. Have cleaning products been used recently?

☒ Y ☐ N When & Type? daily after hours

i. Have cosmetic products been used recently?

Y ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____
- l. Have air fresheners been used recently? Y / N When & Type? _____
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / N If yes, where vented? outside
- o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / N When & Type? _____

Are there odors in the building?

Y / N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y / N

Date of Installation: T

Is the system active or passive? Active/Passive

TR-4 partial

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Back room SSV-1 SE corner of the room	S.S. Cleaner	16oz	U	butane; pet. distillates	Bkgd	
Lab area SSV-4	Blaster penetrating catalyst	110z	U	pet. distillates	Bkgd	
	vacuum pump oil	6x1gal case	UO	N.L. - column E35	Bkgd	
	heavy duty lubricant	369 mL	UO	pet. distillates	Bkgd	
Colson E35	release agent dry lubricant	16oz	U	tetrafluoroethylene telomer 1,1,1,2-tetrafluoroethane	24 ppb	
	general purpose cleaner	19oz	U	2-butoxy ethanol butane, propane	Bkgd	
	Mobil Oil	5gal	U	oil column E31	Bkgd	
	refrigerants in Lab area					
	sobtice ZP solvent	1gal	U	trans-1-chloro-3,3,3-trifluoro-propene (gas cylinder)	Bkgd	
Jawoll Cust.	3M SS Polish	12oz	U	Isobutane	Bkgd	
near Colson	Gum Remover	6oz	U	butane, ethyl alcohol	Bkgd	
	toad grade silicone	10oz	U	hexane, n-hexane 1,1,1-trichloroethane	157	
	dest + odor cleaner	15oz	U(D)	isobutane isopropyl alcohol	Bkgd	
	Simoniz digest	1qt x2	UO	nonylphenoxy polyethyleneoxyethanol	20	

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
 ** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

TR-4 + TR-6A
8

12/20/22

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Cafeteria	- Bkgd Oppb	- no	chemicals			
500 suite	- Bkgd Oppb	- no	chemicals			
near SSU-4	Bkgd $\approx$ 50 ppb					
	white lithium grease	11oz	U	heavy naphthenic petroleum butane, hexane, propane, cyclohexane	Bkgd	
	Super O-lube	2oz	U	dimethyl polysiloxane	Bkgd	
	anti seize lubricant	1 lb.	U	N.L.	Bkgd	
	solder paste	16oz	U	Zinc chloride ammonium chloride	Bkgd	
	loctite 554	11oz	U	methacrylate ester cumene hydroperoxide	Bkgd	
	S.S. polish	21oz	U	isobutene, petroleum oil	Bkgd	
	PB Blaster	16oz	U	pet. distillates	1548	
TR-6A	- Bkgd Oppd	- no	chemicals			

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Tom Urban/Rob Murphy Date/Time Prepared 12/10/21 @ 10:30am

Preparer's Affiliation AECOM Phone No. No Changes observed on 12/21/2022

Purpose of Investigation SVI Investigation

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: TR-5

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: Storage/warehouse/lab/offices

If the property is residential, type? (Circle appropriate response)

Ranch
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) air conditioning company - Carrier

Does it include residences (i.e., multi-use)? Y/N If yes, how many? _____

Other characteristics:

Number of floors 1

Building age _____

Is the building insulated? Y/N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

carpet + tiled
building

2-part epoxy on south 1/2 of

Outdoor air infiltration

bay doors & man doors

Infiltration into air ducts

N/A - tight

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other N/A
- c. Basement floor: concrete dirt stone other N/A
- d. Basement floor: uncovered covered covered with N/A
- e. Concrete floor: unsealed sealed sealed with 2-part epoxy
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy N/A
- i. The basement is: finished unfinished partially finished N/A
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: _____ (feet) on grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

bathroom drains - hallway cleanouts

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply - note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler
		Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: gas

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

ceiling tiled : hot air ceiling unit in
warehouse area

7. OCCUPANCY

Is basement/lowest level occupied? ☒ Full-time ☐ Occasionally ☐ Seldom ☐ Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement N/A
1st Floor office + storage/lab
2nd Floor _____
3rd Floor _____
4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

☒ Y ☐ N

b. Does the garage have a separate heating unit?

☒ Y ☐ N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

☒ Y ☐ N / NA

Please specify _____

d. Has the building ever had a fire?

Y / N When? NA

e. Is a kerosene or unvented gas space heater present?

Y ☒ N Where? 1

f. Is there a workshop or hobby/craft area?

Y / N Where & Type? lab

g. Is there smoking in the building?

Y ☒ N How frequently? _____

h. Have cleaning products been used recently?

☒ Y ☐ N When & Type? bathrooms

i. Have cosmetic products been used recently?

☒ Y ☐ N When & Type? office workers

- j. Has painting/staining been done in the last 6 months? Y (N) Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____
- l. Have air fresheners been used recently? Y (N) When & Type? _____
- m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y (N) If yes, where vented? outside
- o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building?

If yes, please describe: Smell of 1/2 - 1 ft. driven vehicles (Y/N)

Do any of the building occupants use solvents at work? (Y/N)

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? unk

If yes, are their clothes washed at work?

Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
600W Bldg = 0	NO chem. present					
con. kitchen room	Bldg = 0 d. 256 & office cleaner	17oz	U	isobutane, isopropanol, alcohol	0	
1000 office Bldg = 0	S.S. cleaner & polish	21oz	U	pet. distillates	0	
near 2nd 290ppb	15 gas powered vehicles in area universal waste area & hazwaste D-36/D-37 area				13 55gal Drum used oil	
C-27	4 lawn mowers - flush					
	flam. cabinets by D-29 (167 ppm) - photos - gas cans					
	2 (221 ppm) - 10 spray paint cans / 5 lubricants / bee spray					
	D-29 - 5 snow blowers & 9 generators					
	D-35 (4 flam cabinets)					
	1 - 1259 ppm - pvc solvents / lubricants, parts cleaners - photo					
	2 - 2598 ppm - spray adhesive / cleaners / bee spray photo					
	3 - 896 ppm - acid air storage - greases, lubricants, cutting oil - photo					
	4 - 1547 ppm - flam. liquid can (1 gal) - paints 5 various size paints					
	C-29 cabinet of oils, degreasers, bearing oil, greases - photo					
	C-31 - 3 - 1 gal - paint > Bldg					
	3 - 5 gal - paint > Bldg					
	C-32 & C-31 - paint storage area					
	100 - 1 gal paint cans } Bldg					
	66 - 5 gal paint cans }					
lab area 55V-5	flam cabinet in kitchen room (200 ppm) - outside spray paint cans 9	12oz	U	pet. gas	1080ppb	
Bldg 2 80ppb	1 WD 807		U	pet. distillates	Bldg	
	2 cans spray adhesive			acetone, propane, pet. distillates	Bldg	
	1 silicone spray 2002		U	propane, acetone	60ppb	

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Make & Model of field instrument used:

[illegible]

N, L - not listed

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name ROB MURPHY Date/Time Prepared 8/31/22

Preparer's Affiliation AECOM Phone No. 716-903-1346

Purpose of Investigation SVI - TR-SA

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant _____)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

N/A

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y/N N If yes, how many? _____

Other characteristics:

Number of floors 1

Building age _____

Is the building insulated? Y/N N

How air tight? Tight / Average / Not Tight Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

N/A

Outdoor air infiltration

ROLL UP DOORS + ENTRY DOORS ALL LEAKY UNDERNEATH
VENTILATION FAN ON EAST WALL NEAR SOUTHERN END OF
BUILDING

ALL DOORS KEPT CLOSED + VENT FAN OFF DURING TESTING

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: N/A full crawlspace slab other _____
- c. Basement floor: ↓ concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with EPOXY
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: N/A wet damp dry moldy
- i. The basement is: N/A finished unfinished partially finished
- j. Sump present? Y/N PIT IN SW CORNER
- k. Water in sump? Y (N) not applicable APPEARS TO BE UTILITY PIT
ELECTRICAL COMBS IN THERE

Basement/Lowest level depth below grade: _____ (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

FLOOR SEALED. SEE SKETCH FOR PENETRATIONS / PIT LOCATION.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation
Space Heaters
Electric baseboardHeat pump
Stream radiation
Wood stoveHot water baseboard
Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas
Electric
WoodFuel Oil
Propane
CoalKerosene
SolarDomestic hot water tank fueled by: ELECTRICBoiler/furnace located in: Basement Outdoors Main FloorAir conditioning: Central Air Window units Open Windows NoneVENT.
OFF DURING TESTINGELECTRIC HEAT CONDENSERS
FROM HOT WATER / STEAM
RADIANT HEATERS

Are there air distribution ducts present?

Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

N/A

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

1st Floor

CURRENTLY BEING PREPPED TO BE A LAB ~ 8 hour per day

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/N

b. Does the garage have a separate heating unit?

Y/N/NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y/N/NA
Please specify

d. Has the building ever had a fire?

Y/N When? UNKNOWN

e. Is a kerosene or unvented gas space heater present?

Y/N Where?

f. Is there a workshop or hobby/craft area?

Y/N Where & Type? FORMER WELD SHOP
NORTH END PAINTS
+ PREPS/COSTS FIRE
EXTINGUISHERS

g. Is there smoking in the building?

Y/N How frequently?

h. Have cleaning products been used recently?

Y/N When & Type?

i. Have cosmetic products been used recently?

Y/N When & Type?

2nd Bay From North End Recently Painted

j. Has painting/staining been done in the last 6 months?

Y/N Where & When? NORTH END OF BUILDING SPRAY PAINTS FOR SIGNS.

k. Is there new carpet, drapes or other textiles?

Y/N Where & When? _____

l. Have air fresheners been used recently?

Y/N When & Type? _____

m. Is there a kitchen exhaust fan?

Y/N If yes, where vented? _____

n. Is there a bathroom exhaust fan?

Y/N If yes, where vented? _____

o. Is there a clothes dryer?

Y/N If yes, is it vented outside? Y/N

p. Has there been a pesticide application?

Y/N When & Type? _____

Are there odors in the building?

Y/N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

Y/N

If yes, what types of solvents are used? MADE PAINT THINNER NONE

If yes, are their clothes washed at work?

Y/N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y/N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:

Public Water

Drilled Well

Driven Well

Dug Well

Other: _____

Sewage Disposal:

Public Sewer

Septic Tank

Leach Field

Dry Well

Other: ✓

10. RELOCATION INFORMATION (for oil spill residential emergency)

SINK DISCHARGES TO GRASS OUTSIDE

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided and explained to residents? Y/N

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Tom Urban / Rob Murphy Date/Time Prepared 12/8/21 @ 10:30 am

Preparer's Affiliation AECOM Phone No. _____

Purpose of Investigation SVI Investigation

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: TR-6A

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use

Other: Equipment Storage

If the property is residential, type? (Circle appropriate response)

NA

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) Lab equipment storage

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? _____

Other characteristics:

Number of floors 1

Building age NA

Is the building insulated? Y (N)

How air tight? Tight (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

main doors - 2 Bay doors

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete^{bottom} stone brick
- b. Basement type: full crawlspace slab other NA
- c. Basement floor: concrete dirt stone other NA
- d. Basement floor: uncovered covered covered with NA
- e. Concrete floor: unsealed sealed sealed with 2 part epoxy
- f. Foundation walls: poured block stone other NA
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy NA
- i. The basement is: finished unfinished partially finished NA
- j. Sump present? Y/N
- k. Water in sump? Y/N/not applicable

Basement/Lowest level depth below grade: _____ (feet) @ grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

sump - west side middle

sewer cleanout - same as sump

floor drain

fire sprinkler system piping north east end

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply - note primary)

Hot air circulation - ceiling unit

Space Heaters

Electric baseboard

Heat pump

Stream radiation

Wood stove

Hot water baseboard

Radiant floor

Outdoor wood boiler

Other _____

The primary type of fuel used is:

Natural Gas

Electric

Wood

Fuel Oil

Propane

Coal

Kerosene

Solar

steam units on ceiling
piping coming in from outside source

Domestic hot water tank fueled by: NA

Boiler/furnace located in: Basement Outdoors Main Floor

NA water units ceiling rooftop

Air conditioning: Central Air Window units Open Windows

None

Are there air distribution ducts present?

Y ☒ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

3 steam ceiling units on North end - to mid building

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

☒ Almost Never

Level

General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

NA

1st Floor

equipment storage

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y ☒ N

b. Does the garage have a separate heating unit?

Y / N ☒ NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y ☒ N ☒ NA

Please specify _____

d. Has the building ever had a fire?

Y / N When? NA

e. Is a kerosene or unvented gas space heater present?

Y ☒ N Where? _____

f. Is there a workshop or hobby/craft area?

Y ☒ N Where & Type? _____

g. Is there smoking in the building?

Y ☒ N How frequently? _____

h. Have cleaning products been used recently?

Y ☒ N When & Type? _____

i. Have cosmetic products been used recently?

Y ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y (N) Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____
- l. Have air fresheners been used recently? Y (N) When & Type? _____
- m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y (N) If yes, where vented? _____
- o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? Y (N)

If yes, please describe: _____

Do any of the building occupants use solvents at work? Y (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? NA

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

- Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service

No
Unknown

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

TR-4 + TR-6A
8

12/20/22

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Cafeteria	- Bkgd Oppb	- No	chemicals			
500 Suite	- Bkgd Oppb	- no	chemicals			
near SSU-4	Bkgd $\approx$ 50 ppb					
	white lithium grease	11oz	U	heavy naphthenic petroleum butane, hexane, propane, cyclohexane	Bkgd	
	Super O-lube	2oz	U	dimethyl polysiloxane	Bkgd	
	anti seize lubricant	1 lb.	U	N.L.	Bkgd	
	solder paste	16oz	U	Zinc chloride ammonium chloride	Bkgd	
	loctite 554	11oz	U	methacrylate ester cumene hydroperoxide	Bkgd	
	S.S. polish	21oz	U	isobutene, petroleum oil	Bkgd	
	PB Blaster	16oz	U	pet. distillates	1548	
TR-6A	- Bkgd Oppd	- no	chemicals			

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Tom Urban / Rob Murphy Date/Time Prepared 12/7/21 @ 11:00

Preparer's Affiliation AECOM Phone No. 716-856-5636

Purpose of Investigation SVI investigation

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: TR-7

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

(Commercial/Multi-use
Other: office

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

N/A

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Carrier-offices EHS/FMS

Does it include residences (i.e., multi-use)? Y ☒ N ☐ If yes, how many? _____

Other characteristics:

Number of floors 2

Building age unk

Is the building insulated? ☒ Y ☐ N

How air tight? Tight ☒ Average ☐ Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

1st to second

Airflow near source

N/A

Outdoor air infiltration

overhead doors / bay doors, man doors
windows

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other NA
- c. Basement floor: concrete dirt stone other NA
- d. Basement floor: uncovered covered covered with NA
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured - block stone other NA
- g. Foundation walls: unsealed sealed sealed with paint NA
- h. The basement is: wet damp dry moldy NA
- i. The basement is: finished unfinished partially finished NA
- j. Sump present? Y/N NA
- k. Water in sump? Y/N/not applicable NA

Basement/Lowest level depth below grade: 0 (feet)

on slab on grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

no cracks seen / no drains

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply - note primary)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: gas

Boiler/furnace located in: Basement Outdoors Main Floor Other roof top

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

not visible

7. OCCUPANCY

Is basement/lowest level occupied? Full-time ☒ Occasionally ☐ Seldom ☐ Almost Never ☐ 8 hr shift

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement N/A
 1st Floor offices
 2nd Floor _____
 3rd Floor _____
 4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

☒ Y ☐ N

b. Does the garage have a separate heating unit?

☒ Y ☐ N / NA gas elec heater

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

☒ Y ☐ N / NA
 Please specify elec. golf carts
sometimes gas powered
buggies

d. Has the building ever had a fire?

Y / N When? N/A

e. Is a kerosene or unvented gas space heater present?

☒ Y ☐ N Where? _____

f. Is there a workshop or hobby/craft area?

Y / N Where & Type? NA

g. Is there smoking in the building?

Y / ☒ N How frequently? _____

h. Have cleaning products been used recently?

☒ Y ☐ N When & Type? bathrooms daily

i. Have cosmetic products been used recently?

Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ N Where & When? _____
- l. Have air fresheners been used recently? Y / ☒ N When & Type? _____
- m. Is there a kitchen exhaust fan? Y / ☒ N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? ☒ Y / ☒ N If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ N When & Type? _____

Are there odors in the building?

Y / ☒ N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y / ☒ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____ *N/A*

If yes, are their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒ No

Unknown

Is there a radon mitigation system for the building/structure? Y / ☒ N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Room 300 Bldg 10	bleach sanitizer	16oz	U	ethyl alcohol	39	
Kitchen	drain cleaner	1qt	U	naetylphenoxymethyleneoxy ethanol	Bt gel	
Storage Room Tel	general purpose cleaner	19oz	U	2-butoxyethanol butane, propane	0	
Bldg 10 ppb	rustolium spray	15oz	U	xylene, acetone	55 ppb	
	hydra sol cable gel remover	1gal x2	U	pet. distillates	Bt gel	
	lens cleaner	8oz	U	isopropyl alcohol	Bt gel 126	
	st. oil treatment	15oz	U	diethyl diphenylphosphate	Bt gel	
Storage Room	latex paint	1gal 5x	U	N.L.	Bt gel	
garage main room	spiral adhesive	14oz	U	acetone, hexane	100 ppb	
	stripping paint	18oz	U	aliphatic hydrocarbons	40 ppb	
Main room 20 ppb	de-icer prestone	17oz	U	methyl alcohol ethylene glycol	Bt gel	
	film remover	32oz	U	Alk - isopropanol	1578	
Room 300 Bldg 10	marking paint	17oz ⁽⁸²⁾	U	N.L.	80	
Kitchen	greaseless inhibitor	11oz	U	N.L.	50	
	lens cleaner	16oz x2	U	ester	Bt gel	
	cream cleanser	32oz	U	N.L.	Bt gel	
	ethyl rubbing alcohol	10oz	U	isopropyl alcohol	Bt gel	
bat room	white board cleaner	8oz x3	U	citric acid	30	
	furniture dressing	1pt.	U	N.L.	200	

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Tom Urban / Rob Murphy Date/Time Prepared 12/9/21 @ 0800 am
Preparer's Affiliation AECOM Phone No. _____
Purpose of Investigation SVI Investigation

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: TR-12

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ____)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: Carrier - Rtd

If the property is residential, type? (Circle appropriate response)

Ranch
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

N/A

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) manufacture / repair

Does it include residences (i.e., multi-use)? Y N If yes, how many? _____

Other characteristics:

Number of floors 1

Building age 1942 + '95/'96

Is the building insulated? Y N

How air tight? Tight Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

floor cracks present

Outdoor air infiltration

2 Bay doors; 3 windows

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other N/A
- c. Basement floor: concrete dirt stone other N/A
- d. Basement floor: uncovered covered covered with N/A
- e. Concrete floor: unsealed sealed sealed with 2 part epoxy
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with peint
- h. The basement is: wet damp dry moldy N/A
- i. The basement is: finished unfinished partially finished N/A
- j. Sump present? Y/N
- k. Water in sump? Y/N / not applicable

Basement/Lowest level depth below grade: _____ (feet) at grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

floor cracks

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler

Other ceiling units

The primary type of fuel used is:

Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: gas

Boiler/furnace located in: Basement Outdoors Main Floor Other N/A

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

tight

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

N/A

1st Floor

repair - manufacture

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/N

b. Does the garage have a separate heating unit?

Y/N/NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y/N/NA

Please specify _____

d. Has the building ever had a fire?

Y/N When? unk.

e. Is a kerosene or unvented gas space heater present?

Y/N Where? _____

f. Is there a workshop or hobby/craft area?

Y/N Where & Type? whole building

g. Is there smoking in the building?

Y/N How frequently? _____

h. Have cleaning products been used recently?

Y/N When & Type? Bathroom - daily

i. Have cosmetic products been used recently?

Y/N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y ☒ N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y ☒ N Where & When? _____
- l. Have air fresheners been used recently? Y ☒ N When & Type? _____
- m. Is there a kitchen exhaust fan? Y ☒ N If yes, where vented? N/A
- n. Is there a bathroom exhaust fan? Y ☒ N If yes, where vented? _____
- o. Is there a clothes dryer? Y ☒ N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y ☒ N When & Type? _____

Are there odors in the building?

If yes, please describe: metal shop ☒ Y / N

Do any of the building occupants use solvents at work? ☒ Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

- Yes, use dry-cleaning regularly (weekly)
 Yes, use dry-cleaning infrequently (monthly or less)
 Yes, work at a dry-cleaning service

☒ No
☐ Unknown

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation: _____
 Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water ☐ Drilled Well ☐ Driven Well ☐ Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer ☐ Septic Tank ☐ Leach Field ☐ Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home ☐ relocate to friends/family ☐ relocate to hotel/motel ☐

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

13. PRODUCT INVENTORY FORM

 Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Bkgd	rust inhibitor	11oz	U	Mineral spirits 1-butanol-2-propanol acetone 2-propanol diethylene glycol	302	
~600	isopropyl alcohol loose bottles all over	1qt	U	isopropyl alcohol	1000	
	Soiled shop towels		U	N/A	Bkgd	
	tough coat	12oz	U	N.L.	Bkgd	
	loctite	7/2 8.45oz	U	methacrylate ester	150ppb	
	corrosion cleaner	11oz	U	naphtha, 1-1 Dichloromethane n-2-hexane, trimethylpentane	Bkgd	
upstairs	flam. cabinet Bkgd outside			opened = Bkgd		
	Ly paints + spray paint + loctite					
west part building	Soiled shop towel	bin			70	
Bkgd	oil - hydraulic	xB 55gal		PTE - 25	Bkgd	
70 ppb	metal working lubricant	55gal		N.L.	Bkgd	
	pump oil	1gal		N.L.	Bkgd	
	oil - cabinet	85gal in		5 gal buckets + smaller	600	
	oil - cabinet	65gal in		1 gal bucket	500	

 * Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

 ** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Tom Urban/Rob Murphy Date/Time Prepared 12/7/21 @ 12:00 pm
Preparer's Affiliation AECOM Phone No. _____
Purpose of Investigation SVI Investigation

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: TR-7A

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: research lab / testing

If the property is residential, type? (Circle appropriate response)

Ranch
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

N/A

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) refrigerant R+D

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? _____

Other characteristics:

Number of floors 2

Building age N/A

Is the building insulated? Y (N)

How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

no cracks seen

Outdoor air infiltration

Bay door - man doors

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other N/A
- c. Basement floor: concrete dirt stone other N/A
- d. Basement floor: uncovered covered covered with N/A
- e. Concrete floor: unsealed sealed sealed with 2 part epoxy
- f. Foundation walls: poured block stone other N/A
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy N/A
- i. The basement is: finished unfinished partially finished N/A
- j. Sump present? Y (N) N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: _____ (feet) N/A

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

no drains

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler

Other _____

The primary type of fuel used is:

Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: gas

Boiler/furnace located in: Basement Outdoors Main Floor Other roof

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

tight

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

Almost Never

workshop

Level

General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

N/A

1st Floor

research + testing

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y N

b. Does the garage have a separate heating unit?

Y N NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y N NA

Please specify

N

d. Has the building ever had a fire?

Y / N When?

N/A

e. Is a kerosene or unvented gas space heater present?

Y N Where?

f. Is there a workshop or hobby/craft area?

Y / N Where & Type?

N/A

g. Is there smoking in the building?

Y N How frequently?

h. Have cleaning products been used recently?

Y N When & Type?

i. Have cosmetic products been used recently?

Y N When & Type?

- j. Has painting/staining been done in the last 6 months? Y ☒ N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y ☒ N Where & When? _____
- l. Have air fresheners been used recently? Y ☒ N When & Type? _____
- m. Is there a kitchen exhaust fan? Y ☒ N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y ☒ N If yes, where vented? _____
- o. Is there a clothes dryer? Y ☒ N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y ☒ N When & Type? _____

Are there odors in the building? Y ☒ N

If yes, please describe: _____

Do any of the building occupants use solvents at work? Y ☒ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

- Yes, use dry-cleaning regularly (weekly)
 Yes, use dry-cleaning infrequently (monthly or less)
 Yes, work at a dry-cleaning service

No ☒
 Unknown

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water ☐ Drilled Well ☐ Driven Well ☐ Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer ☐ Septic Tank ☐ Leach Field ☐ Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home ☐ relocate to friends/family ☐ relocate to hotel/motel ☐

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Styl	WD-40	8oz	U	pet. distillates	0	
Oppb	3 in one	8oz	U	pet. distillates	0	
	cooling lubricant	16oz	U	N.L.	0	
	dust/lint remover	8oz	U	1,1-dichloroethane	0	
	iron guard latch enamel	12oz	U	2-butoxyethanol	42	
	Super 77 spray adhesive	16.75oz	U x2	Acetone, propane, cyclohexane, pet. dist.	223	
	battery corrosion spray	9.75oz	U	hexane, propane, isobutane, N-butane, pet. distillates	2156	
	premium lubricant	11oz	U	distillates	0	
	70% isopropyl alcohol	16oz	U	isopropyl alcohol	0	
flamable cabinet	spray enamel	15oz	U	acetone, xylene	580	
3047 crack & hinge	adhesive remover	18.5oz	U x2	propane, citrus extract	124	
	lactate	1.75L	U/uo x5	N.L.	87	
	spray enamel	10oz	UO	acetone pet. distillates aromatic H.C.	421	
	paint + primer	12oz	U	acetone, pet. distillates xylenes	168	
	isopropyl alcohol	16oz	UO x4	isopropyl alcohol	20	
	Super 77 adhesive	16.75oz	U	acetone, propane, cyclohexane, pet. distillates	322	
	acetone	16oz	U	acetone	165	
	spray paint	12oz	U x3	acetone, propane, butane, toluene, xylene	389	

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Flask cabinet	Spray paints	12oz	U	acetone, propene, aliphatic hydrocarbons, toluene, Xylene	390	
outside	isopropyl alcohol	4oz	U	isopropyl alcohol	300	
	401 cleaner degreaser	32oz	U	N.L.	Bkgd	in work area
	spray adhesive	17oz	U	acetone, propene, 2-methylpentane, cyclohexane	390	
	acetone	16oz	U	hexane acetone	3,000	
	Butane fuel	10oz	U	Butane	Bkgd	
	unknown	10oz	U	N.L.	200	
grey cabinet	loctite SE 7452	1.75oz	U	N.L.	23.56 ppm	
in work area	adhesive remover	19.5oz	U	propane	86	
	adhesive sealant	3oz	U	urethane polymer	Bkgd	
	loctite 454	0.14oz	U	N.L.	Bkgd	
	epoxy paint	1gal	U	N.L.	Bkgd	
	3 in 1	4oz	U	pet. distillates	Bkgd	
room 103	3 in 1 oil	4oz	U	pet. distillates	Bkgd 90	
	battery spray	9.75oz	U	hexane, propene, 1,3-butadiene, pet. distillates	21	
	spray adhesive	16.75oz	U	acetone, propene, hexane	350	
	latex enamel spray	12oz	U	N.L.	35	
	pvc cleaner	1qt	U	N.L.	1234	
	hair	14oz	U	N.L.	Bkgd	

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

TR-7A

List specific products found in the residence that have the potential to affect indoor air quality.

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Tom Urban/Rob Murphy Date/Time Prepared 12/17/21 @ 11:30

Preparer's Affiliation AECOM Phone No. _____

Purpose of Investigation SVI Investigation

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: TR-19

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: Storage / lab / offices

If the property is residential, type? (Circle appropriate response)

Ranch
Raised Ranch
Cape Cod
Duplex
Modular

2-Family
Split Level
Contemporary
Apartment House
Log Home

3-Family
Colonial
Mobile Home
Townhouses/Condos
Other: _____

N/A

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) air conditioning R+D

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? _____

Other characteristics:

Number of floors 1

Building age unk.

Is the building insulated? Y (N)

How air tight? Tight (Average) Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

floor penetrations - drains, piping

Outdoor air infiltration

bay doors + man doors

Infiltration into air ducts

tight

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other N/A
- c. Basement floor: concrete dirt stone other N/A
- d. Basement floor: uncovered covered covered with N/A
- e. Concrete floor: unsealed sealed sealed with 2-part epoxy
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy N/A
- i. The basement is: finished unfinished partially finished N/A
- j. Sump present? Y/N
- k. Water in sump? Y/N/not applicable

Basement/Lowest level depth below grade: _____ (feet) N/A

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

floor drains; roof piping thru floor
open pit @ column A22

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: nat. gas

Boiler/furnace located in: Basement Outdoors Main Floor Other unk.

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y / ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

ceiling is tiled

7. OCCUPANCY

Is basement/lowest level occupied? ☒ Full-time ☐ Occasionally ☐ Seldom ☐ Almost Never *8-hrs shifts*

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	_____
1 st Floor	<u>labs, offices, storage</u>
2 nd Floor	_____
3 rd Floor	_____
4 th Floor	_____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

☒ Y / ☐ N

b. Does the garage have a separate heating unit?

☒ Y / ☐ N / ☐ NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

☒ Y / ☐ N / ☐ NA

Please specify _____

d. Has the building ever had a fire?

Y / ☐ N When? unk

e. Is a kerosene or unvented gas space heater present?

Y / ☒ N Where? _____

f. Is there a workshop or hobby/craft area?

☒ Y / ☐ N Where & Type? labs

g. Is there smoking in the building?

Y / ☒ N How frequently? _____

h. Have cleaning products been used recently?

☒ Y / ☐ N When & Type? bathrooms

i. Have cosmetic products been used recently?

☒ Y / ☐ N When & Type? office workers

j. Has painting/staining been done in the last 6 months?

Y (N) Where & When? south of building

k. Is there new carpet, drapes or other textiles?

Y (N) Where & When? _____

l. Have air fresheners been used recently?

Y (N) When & Type? _____

m. Is there a kitchen exhaust fan?

Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan?

Y (N) If yes, where vented? outside

o. Is there a clothes dryer?

Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application?

Y (N) When & Type? _____

Are there odors in the building?

Y (N)

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y (N)

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? parts cleaners

If yes, are their clothes washed at work?

Y (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:

Public Water

Drilled Well

Driven Well

Dug Well

Other: _____

Sewage Disposal:

Public Sewer

Septic Tank

Leach Field

Dry Well

Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
SSV-1 Bkgd-0	no chemicals -			office space - cubes	0	
column I 6-0	plastic Brite	32oz	U	isopropyl alcohol propylene glycol	0	
column I 10	ultra lite 3-36	11oz	U	pet. distillates	80	
Bkgd 185 ppb	I-13 isopropyl alcohol	x2 12oz	U	isopropyl alcohol	Bkgd	
	G-12 2 drums of			motor oil	Bkgd	
	South end of building - truck bay - 2 vehicles - J-22 column - semi truck			gas		
J 23 column	spray adhesive	16.75oz	U	acetone, propane pet. distillates	21	
	never sear	8oz	U	N.L.	0	
	stain - silv floor	1 x 2 lb	UO	N.L.	30	
	loctite 554	8oz	U	methylacrylate ester cumene hydroperoxide	0	
	retro- lubricant	32oz	U	N.L.	0	
	penetrating catalyst	16oz	U	aromatic hydrocarbons dipropylene glycol methyl ether	100	
	spray enamel	17oz	U	xylene + acetone	200	
	butter	5 1/2 oz	U	butter	Bkgd	
	cutting oil	12oz	U	pet distillates	Bkgd	
	contact cleaner	11oz	U	light naphtha trimethyl difluoroethane, propane	811	
	thread sealant	473ml	U	N.L.	354	
column D 17 -	Bkgd 40 ppb 55 gal drum used oil				100.	
	B-19 synthetic oil	1 gal	U	N.L.	Bkgd	

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

1PB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
B23	degreaser	20oz	U	n-propyl bromide	3218	
G14	latex paint	2gal	U	N.L.	Bkgd	
SSV-2	T-B wet	5oz	U	N.L.	Bkgd	
Bkgd ~20ppb	cutting oil	12oz	U	pet. distillates	Bkgd	
	isopropyl alcohol	16oz	U	iso. alcohol thru out area	Bkgd	
	tough spray coat	12oz	U	N.L.	10	
	contact cleaner & lube	12oz	U	isohexane	26	
	carrier refing synthetic lube	x3 32oz	U	N.L.	Bkgd	
F4	flammable cabinet		outside		7304	
	paints & spray paints, lubs					
	thread seal	473oz	U	N.L.	28	outside measure needs
	4 flammable cabinets	near	G7 all locked		#13 = 3978	
					#14 = 12-18 ppm	
					#9 = 5055	
					#7 = 1980	
column H3	butane	5 1/2oz	U	butane	Bkgd	
Bkgd ~80ppb	aerosol dust remover	8oz	U	1,1,1,2-tetrachloroethane	Bkgd	
	flammable cabinet		Outside =		1107 ppb	
	cutting oils, paints,					

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

N.L. - not listed

Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221219_151837.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-SSV-1



Photo Title:
 20221219_151822.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-IA-1



Photo Title:
 20221219_151643.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-SSV-2



Photo Title:
 20221219_151719.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-IA-2



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221219_152110.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-SSV-3

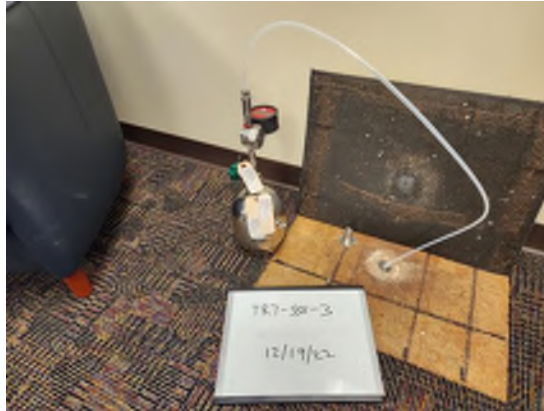


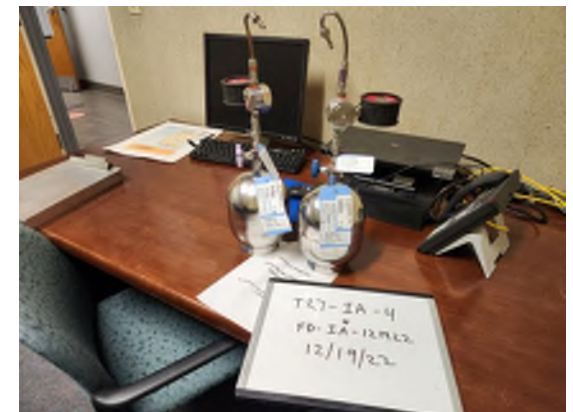
Photo Title:
 20221219_152126.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-IA-3



Photo Title:
 20221219_151943.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-SSV-4
 and duplicate FD-SSV-
 121922



Photo Title:
 20221219_152009.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-IA-4
 and duplicate FD-IA-
 121922



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221219_152557.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-SSV-5



Photo Title:
 20221219_152521.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-IA-5

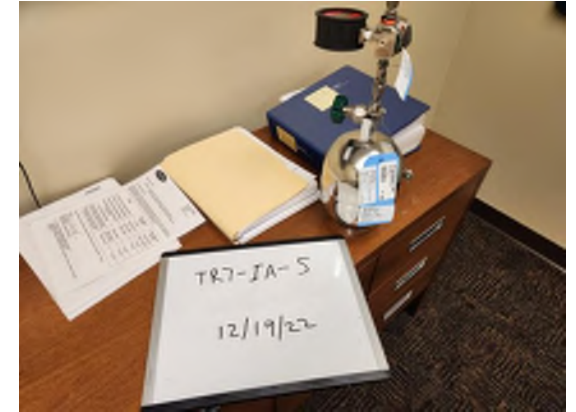
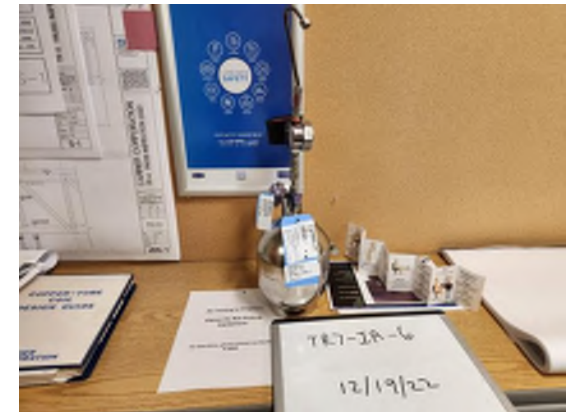


Photo Title:
 20221219_152846.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-SSV-6



Photo Title:
 20221219_152719.jpg
Date:
 12/19/2022
Description:
 Sample point TR7-IA-6



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221219_153120.jpg
Date:
 12/19/2022
Description:
 Sample point TR7A-SSV-1

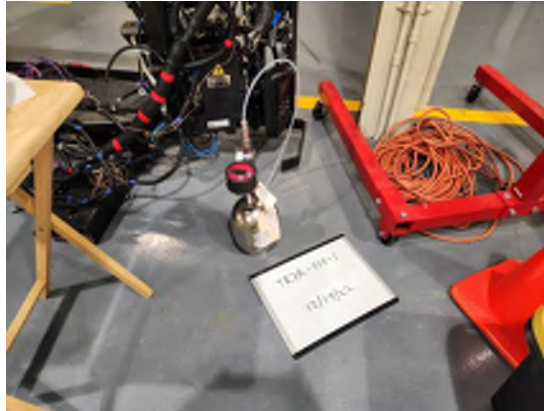


Photo Title:
 20221219_153136.jpg
Date:
 12/19/2022
Description:
 Sample point TR7A-IA-1

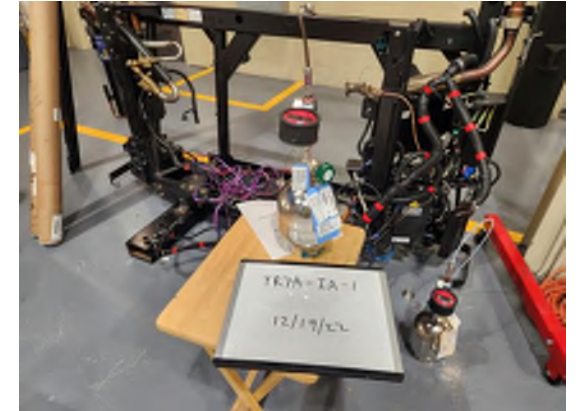


Photo Title:
 20221219_153238.jpg
Date:
 12/19/2022
Description:
 Sample point TR7A-SSV-2



Photo Title:
 20221219_153224.jpg
Date:
 12/19/2022
Description:
 Sample point TR7A-IA-2



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221219_153535.jpg
Date:
 12/19/2022
Description:
 Outdoor air sample TR7-
 OA-1



Photo Title:
 20221220_073558.jpg
Date:
 12/20/2022
Description:
 Sample point TR4-SSV-1



Photo Title:
 20221220_073640.jpg
Date:
 12/20/2022
Description:
 Sample point TR4-IA-1



Photo Title:
 20221220_075032.jpg
Date:
 12/20/2022
Description:
 Sample point TR4-SSV-3



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221220_074948.jpg
Date:
 12/20/2022
Description:
 Sample point TR4-IA-3



Photo Title:
 20221220_080255.jpg
Date:
 12/20/2022
Description:
 Sample point TR4-SSV-4

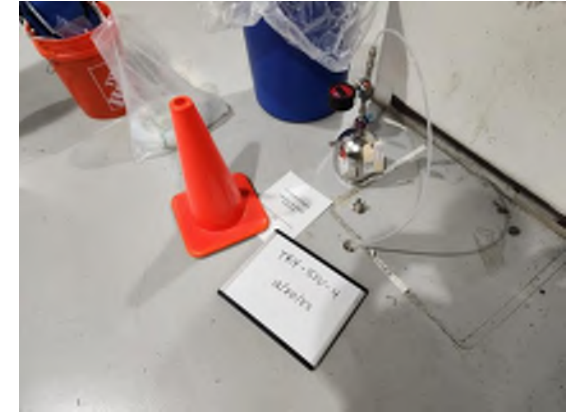


Photo Title:
 20221220_080309.jpg
Date:
 12/20/2022
Description:
 Sample point TR4-IA-4



Photo Title:
 20221220_082611.jpg
Date:
 12/20/2022
Description:
 Sample point TR6A-SSV-1



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221220_082648.jpg
Date:
 12/20/2022
Description:
 Sample point TR6A-IA-1



Photo Title:
 20221220_083302.jpg
Date:
 12/20/2022
Description:
 Outdoor air sample TR6A-OA-1



Photo Title:
 20221220_085332.jpg
Date:
 12/20/2022
Description:
 Sample point TR12-SSV-1

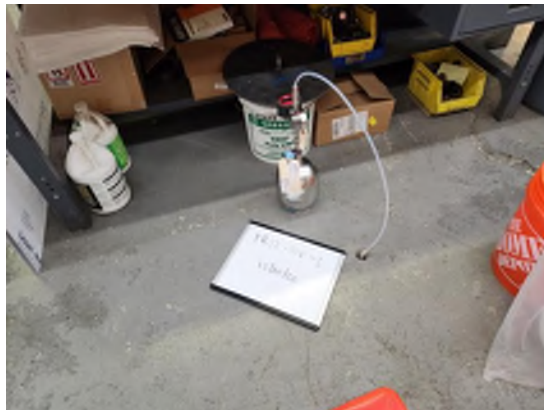


Photo Title:
 20221220_085354.jpg
Date:
 12/20/2022
Description:
 Sample point TR12-IA-1



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221220_085740.jpg
Date:
 12/20/2022
Description:
 Outdoor air sample TR12-
 OA-1



Photo Title:
 20221221_073010.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-SSV-1

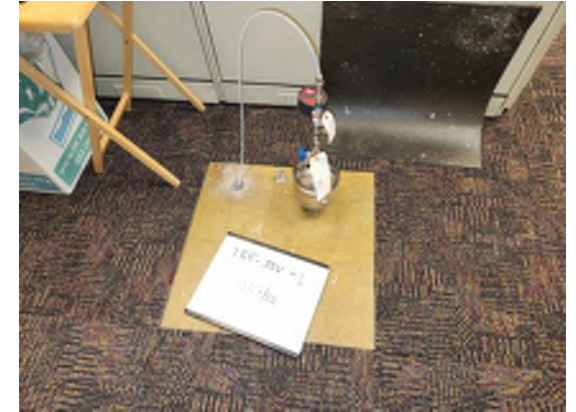


Photo Title:
 20221221_073101.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-IA-1



Photo Title:
 20221221_075432.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-SSV-2
 and duplicate FD-SSV-
 122122



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221221_075347.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-IA-2
 and duplicate FD-IA-
 122122



Photo Title:
 20221221_080626.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-SSV-3



Photo Title:
 20221221_080649.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-IA-3



Photo Title:
 20221221_082112.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-SSV-4



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221221_082151.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-IA-4



Photo Title:
 20221221_083232.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-SSV-5



Photo Title:
 20221221_083213.jpg
Date:
 12/21/2022
Description:
 Sample point TR5-IA-5



Photo Title:
 20221221_084202.jpg
Date:
 12/21/2022
Description:
 Outdoor air sample TR5-OA-1



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221222_084254.jpg
Date:
 12/22/2022
Description:
 Sample point TR5A-SSV-1



Photo Title:
 20221222_084213.jpg
Date:
 12/22/2022
Description:
 Sample point TR5A-IA-1



Photo Title:
 20221222_084110.jpg
Date:
 12/22/2022
Description:
 Sample point TR5A-SSV-2

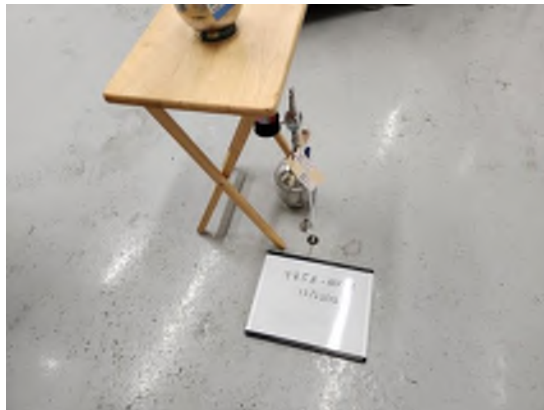


Photo Title:
 20221222_084133.jpg
Date:
 12/22/2022
Description:
 Sample point TR5A-IA-2



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221222_090118.jpg

Date:
 12/22/2022

Description:
 Sample point TR19-SSV-4
 and duplicate FD-SSV-
 122222



Photo Title:
 20221222_090030.jpg

Date:
 12/22/2022

Description:
 Sample point TR19-IA-4
 and duplicate FD-IA-
 122222



Photo Title:
 20221222_090325.jpg

Date:
 12/22/2022

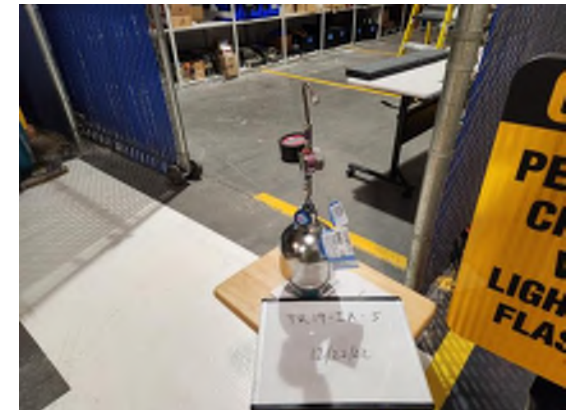
Description:
 Sample point TR19-SSV-5



Photo Title:
 20221222_090350.jpg

Date:
 12/22/2022

Description:
 Sample point TR19-IA-5



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – Sampling Photos
 December 2022

Photo Title:
 20221222_085834.jpg
Date:
 12/22/2022
Description:
 Sample point TR19-SSV-7



Photo Title:
 20221222_085909.jpg
Date:
 12/22/2022
Description:
 Sample point TR19-IA-7



Photo Title:
 20221222_085119.jpg
Date:
 12/22/2022
Description:
 Outdoor air sample TR5A-OA-1



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221216_152526.jpg

Date:

12/16/2022

Description:

Former location of TR19-SSV-7 is covered by new flooring.

**Photo Title:**

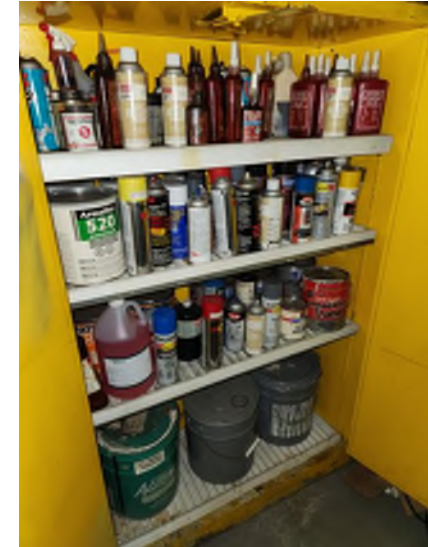
20221220_170057.jpg

Date:

12/20/2022

Description:

Flammable storage cabinet in building TR-12.

**Photo Title:**

20221220_183259.jpg

Date:

12/20/2022

Description:

Replacement location for TR19-SSV-7.

**Photo Title:**

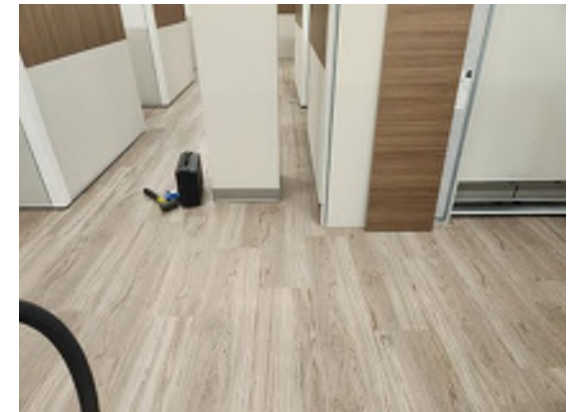
20221220_183317.jpg

Date:

12/20/2022

Description:

Replacement location for TR19-SSV-7.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221221_160437.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160447.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

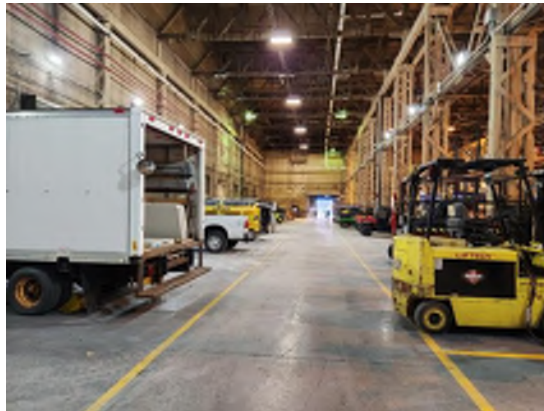
20221221_160502.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

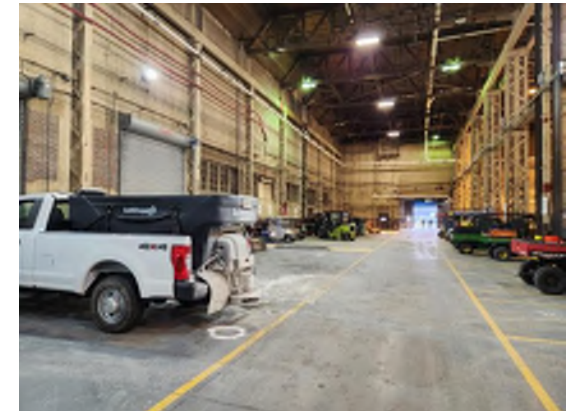
20221221_160517.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221221_160532.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160548.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160648.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160728.jpg

Date:

12/21/2022

Description:

Paint cans in TR-5 warehouse area.



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – General Site Condition Photos
 December 2022

Photo Title:
 20221221_160733.jpg
Date:
 12/21/2022
Description:
 Paint cans in TR-5
 warehouse area.



Photo Title:
 20221221_160749.jpg
Date:
 12/21/2022
Description:
 Caulks and sealants in TR-5
 warehouse area.



Photo Title:
 20221221_160809.jpg
Date:
 12/21/2022
Description:
 Flammable storage cabinet
 in TR-5 warehouse area.



Photo Title:
 20221221_160825.jpg
Date:
 12/21/2022
Description:
 Flammable storage cabinet
 in TR-5 warehouse area.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221221_160945.jpg

Date:

12/21/2022

Description:

Flammable storage cabinet in TR-5 warehouse area.

**Photo Title:**

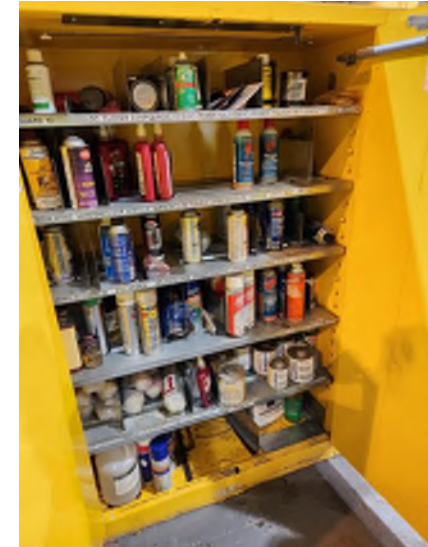
20221221_160956.jpg

Date:

12/21/2022

Description:

Flammable storage cabinet in TR-5 warehouse area.

**Photo Title:**

20221221_161007.jpg

Date:

12/21/2022

Description:

Flammable storage cabinet in TR-5 warehouse area.

**Photo Title:**

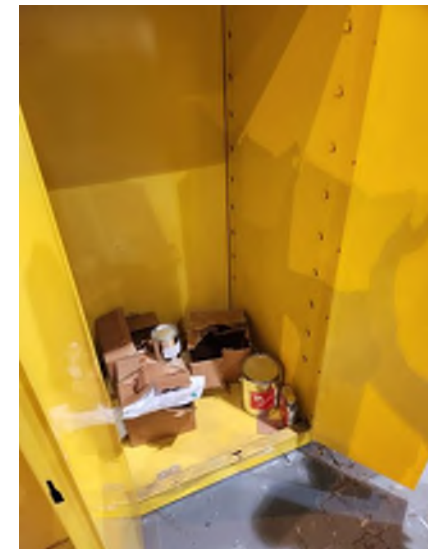
20221221_161016.jpg

Date:

12/21/2022

Description:

Flammable storage cabinet in TR-5 warehouse area.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221221_161026.jpg

Date:

12/21/2022

Description:Flammable storage cabinet
in TR-5 warehouse area.**Photo Title:**

20221221_161134.jpg

Date:

12/21/2022

Description:Paint cans in TR-5
warehouse area.**Photo Title:**

20221221_161144.jpg

Date:

12/21/2022

Description:Paint cans in TR-5
warehouse area.**Photo Title:**

20221221_161152.jpg

Date:

12/21/2022

Description:Paint cans in TR-5
warehouse area.

Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:
20221221_161202.jpg
Date:
12/21/2022
Description:
Gasoline powered
equipment in TR-5
warehouse area.



Photo Title:
20221221_161222.jpg
Date:
12/21/2022
Description:
Gasoline powered
equipment in TR-5
warehouse area.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221216_152526.jpg

Date:

12/16/2022

Description:

Former location of TR19-SSV-7 is covered by new flooring.

**Photo Title:**

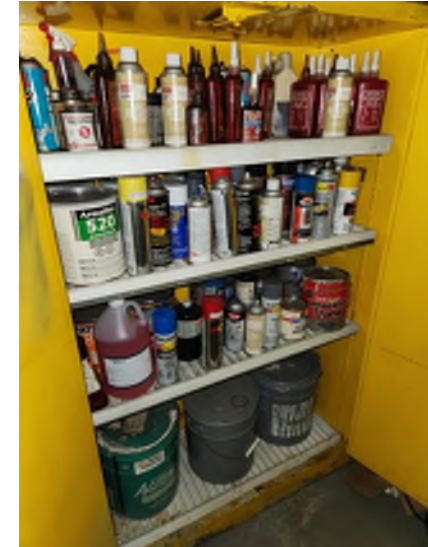
20221220_170057.jpg

Date:

12/20/2022

Description:

Flammable storage cabinet in building TR-12.

**Photo Title:**

20221220_183259.jpg

Date:

12/20/2022

Description:

Replacement location for TR19-SSV-7.

**Photo Title:**

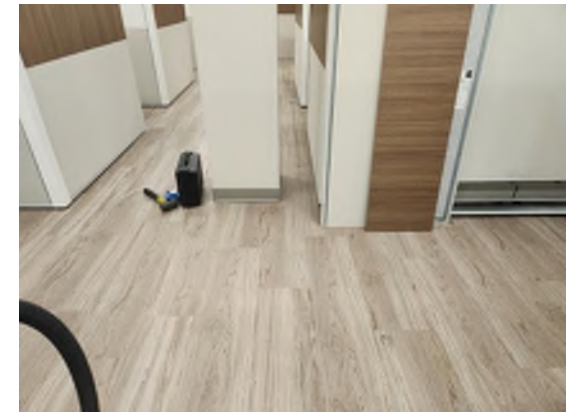
20221220_183317.jpg

Date:

12/20/2022

Description:

Replacement location for TR19-SSV-7.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221221_160437.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160447.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

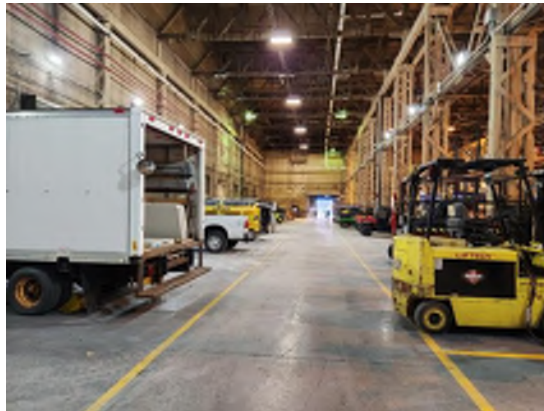
20221221_160502.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

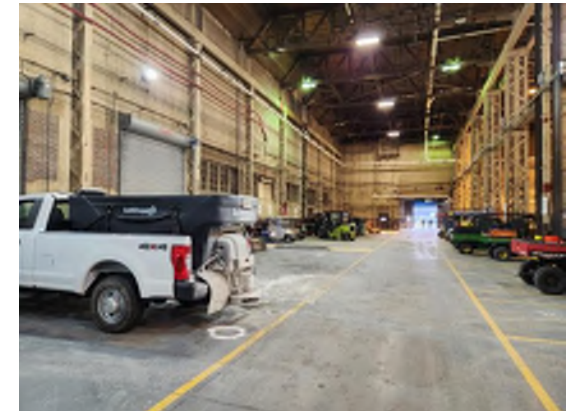
20221221_160517.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:

20221221_160532.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160548.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160648.jpg

Date:

12/21/2022

Description:

Numerous gasoline powered vehicles in warehouse area near point TR5-IA-4.

**Photo Title:**

20221221_160728.jpg

Date:

12/21/2022

Description:

Paint cans in TR-5 warehouse area.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:
20221221_160733.jpg
Date:
12/21/2022
Description:
Paint cans in TR-5
warehouse area.



Photo Title:
20221221_160749.jpg
Date:
12/21/2022
Description:
Caulks and sealants in TR-5
warehouse area.



Photo Title:
20221221_160809.jpg
Date:
12/21/2022
Description:
Flammable storage cabinet
in TR-5 warehouse area.



Photo Title:
20221221_160825.jpg
Date:
12/21/2022
Description:
Flammable storage cabinet
in TR-5 warehouse area.



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – General Site Condition Photos
 December 2022

Photo Title:
 20221221_160945.jpg
Date:
 12/21/2022
Description:
 Flammable storage cabinet in TR-5 warehouse area.



Photo Title:
 20221221_160956.jpg
Date:
 12/21/2022
Description:
 Flammable storage cabinet in TR-5 warehouse area.

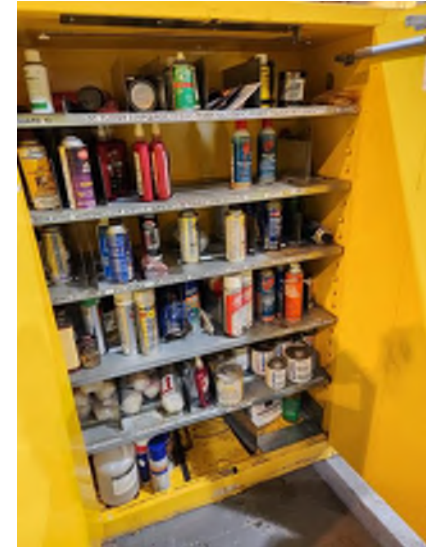
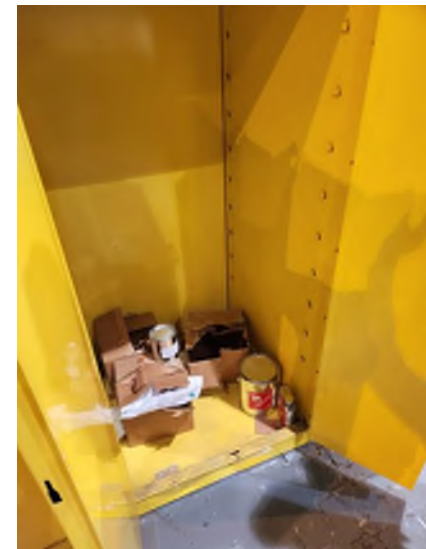


Photo Title:
 20221221_161007.jpg
Date:
 12/21/2022
Description:
 Flammable storage cabinet in TR-5 warehouse area.



Photo Title:
 20221221_161016.jpg
Date:
 12/21/2022
Description:
 Flammable storage cabinet in TR-5 warehouse area.



Site Photograph Log
 Carrier – Thompson Road Site
 Soil Vapor Sampling – General Site Condition Photos
 December 2022

Photo Title:
 20221221_161026.jpg
Date:
 12/21/2022
Description:
 Flammable storage cabinet
 in TR-5 warehouse area.



Photo Title:
 20221221_161134.jpg
Date:
 12/21/2022
Description:
 Paint cans in TR-5
 warehouse area.



Photo Title:
 20221221_161144.jpg
Date:
 12/21/2022
Description:
 Paint cans in TR-5
 warehouse area.



Photo Title:
 20221221_161152.jpg
Date:
 12/21/2022
Description:
 Paint cans in TR-5
 warehouse area.



Site Photograph Log
Carrier – Thompson Road Site
Soil Vapor Sampling – General Site Condition Photos
December 2022

Photo Title:
20221221_161202.jpg
Date:
12/21/2022
Description:
Gasoline powered
equipment in TR-5
warehouse area.



Photo Title:
20221221_161222.jpg
Date:
12/21/2022
Description:
Gasoline powered
equipment in TR-5
warehouse area.



SAFETY DATA SHEET



Revision: 1.0 Date: 24.06.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

www.vishaypg.com

CSM-3

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	CSM - 3
CAS No.	Mixture
EINECS No.	Mixture

1.2 Recommended use of the chemical and restrictions on use

Identified Use(s)	PC14 Metal surface treatment products, including galvanic and electroplating products
Uses Advised Against	None known.

1.3 Supplier's details

Company Identification	Vishay Measurements Group, Inc. Post Office Box 27777 Raleigh, NC 27611 USA
Telephone	919-365-3800
Fax	919-365-3945
E-Mail (competent person)	mm.us@vishaypg.com

1.4 Emergency Phone No.

1-800-424-9300 (U.S.)
CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification

Flam. Aerosol 1; H222
Acute Tox. 4; H332
Aquatic Chronic 3; H412

2.2 Label elements

Product Name	CSM-3
Contains:	Trans-Dichloroethylene

Hazard Pictogram(s)



Signal Word(s)

Danger

Hazard Statement(s)

H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H332: Harmful if inhaled.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P261: Avoid breathing spray.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P273: Avoid release to the environment.

ADD Label elements

P210: Keep away from heat, hot surfaces, sparks, open flames and other

SAFETY DATA SHEET



Revision: 1.0 Date: 24.06.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

www.vishaypg.com

ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
P251: Do not pierce or burn, even after use.

2.3 Other hazards

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

Not applicable

3.2 Mixtures

GHS Classification

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
Trans-Dichloroethylene	> 90	156-60-5	205-860-2	Flam. Liq. 2; H225 Acute Tox. 4; H332 Aquatic Chronic 3; H412
Carbon Dioxide*	1- 10	124-38-9	204-696-9	Press. Gas (*); H280

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact

IF ON SKIN: Gently wash with plenty of soap and water.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

Ingestion

IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell. Do not induce vomiting wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if inhaled. May be harmful if swallowed and enters airways. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Phosgene, Hydrogen chloride. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment.

SAFETY DATA SHEET

Revision: 1.0 Date: 24.06.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

www.vishaypg.com

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Eliminate sources of ignition. Shut off leaks if without risk. Do not breathe spray. Ensure suitable personal protection during removal of spillages.
6.2	Environmental precautions	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. (Aquatic Chronic 3).
6.3	Methods and material for containment and cleaning up	Provided it is safe to do so, isolate the source of the leak. Use non-sparking equipment when picking up flammable spill. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Transfer to a container for disposal. Allow small spillages to evaporate provided there is adequate ventilation.
6.4	Reference to other sections	See Section: 8,13

7. SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours. Wear protective gloves/eye protection. Take precautionary measures against static discharge. This product should be kept away from naked flames and other sources of ignition. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. The vapour is heavier than air; beware of pits and confined spaces.
7.2	Conditions for safe storage, including any incompatibilities Storage temperature Storage life Incompatible materials	Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep container closed when not in use. Keep cool. Protect from sunlight. Stable under normal conditions. Isolate from reducers and flammable/ combustible materials etc in storage. Keep away from: Strong oxidising agents, Acids, Alkalis.
7.3	Specific end use(s)	PC14 Metal surface treatment products, including galvanic and electroplating products (See Also Section 1.2).

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1** Control parameters
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Carbon dioxide	124-38-9	5000	9000	30000*	54000*	NIOSH
		5000	9000			OSHA
1,2-Dichloroethene, trans-	156-60-5	200	790	-	-	OSHA

Note: OSHA 1910.1000 TABLE Z-1 / *NIOSH 15 minutes average value

8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not established.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.
8.2.2	Individual protection measures, such as personal protective equipment (PPE)	Assumes a good basic standard of occupational hygiene is implemented.

Eye/ face protection



Wear eye glasses with side protection according to EN 166.

SAFETY DATA SHEET



Revision: 1.0 Date: 24.06.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

www.vishaypg.com

Skin protection



Not normally required. Wear suitable gloves if prolonged skin contact is likely.
Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection



In case of insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation of high concentrations of vapours.

High concentrations: Use NIOSH approved respiratory protection.
Recommended: Self-contained breathing apparatus (DIN EN 137)
Not applicable.

Thermal hazards

8.2.3 Environmental Exposure Controls

Avoid release to the environment. (Aquatic Chronic 3)

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colourless liquid
Odour	Sharp, Harsh
Odour threshold	17 ppm
pH	Not established.
Melting point/freezing point	- 50 °C
Initial boiling point and boiling range	48 °C
Flash point	2 – 4 °C
Evaporation rate	2.80
Flammability (solid, gas)	Not determined - Liquid
Upper/lower flammability or explosive limits	9.7 – 12.8 %
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.28 g/ml @ 20 °C
Solubility(ies)	Soluble in water. 6.3 mg/ml @ 25 °C
Partition coefficient: n-octanol/water	Not established.
Auto-ignition temperature	Not established.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None known.

10. SECTION 10: STABILITY AND REACTIVITY

10.1	Stability and reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4	Conditions to avoid	Avoid contact with: Strong oxidising agents, Acids, Alkalis. Keep away from sources of ignition - No smoking.
10.5	Incompatible materials	Isolate from reducers and flammable/ combustible materials etc in storage.
10.6	Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Phosgene, Hydrogen chloride.

SAFETY DATA SHEET



Revision: 1.0 Date: 24.06.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

www.vishaypg.com

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity

Ingestion

Not classified.

Trans-Dichloroethylene: Oral LD50 1235 mg/kg (rat), LD50 2122 mg/kg (mouse)

Inhalation

Acute Tox. 4; LC50 12.2 mg/l, Acute Toxicity Estimate (ATE) Calculation.

Trans-Dichloroethylene: Inhalation LC50 (rat) 100ppm 24h

Skin Contact

Not classified. Dermal LD50 >5000 mg/kg (rabbit)

Skin corrosion/irritation

Not classified.

Serious eye damage/irritation

Not classified.

Respiratory or skin sensitization

Not classified.

Germ cell mutagenicity

There is no evidence of mutagenic potential.

Carcinogenicity

No evidence of carcinogenicity.

Reproductive toxicity

No evidence of reproductive effects.

STOT - single exposure

Not classified.

STOT - repeated exposure

Not classified.

Aspiration hazard

Not classified.

11.2 Other information

None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous to the aquatic environment (Aquatic Chronic 3).

Estimated LC50 10 – 100 mg/l

12.2 Persistence and degradability

No data for the mixture as a whole.

12.3 Bioaccumulative potential

No data for the mixture as a whole.

12.4 Mobility in soil

No data for the mixture as a whole.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	UN 1950	UN 1950	UN 1950
14.2 Proper Shipping Name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
14.3 Transport hazard class(es)	2	2	2
14.4 Packing group	None assigned.	None assigned.	None assigned.
14.5 Environmental hazards	Not classified.	Not classified as a Marine Pollutant.	Not classified.
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.	Not applicable.	Not applicable.
	None.		

SAFETY DATA SHEET



Revision: 1.0 Date: 24.06.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

www.vishaypg.com

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture None.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References:

Existing Safety Data Sheet (SDS): Mixture. Existing ECHA registration(s) for Carbon dioxide (CAS# 124-38-9). Harmonised Classification(s) for Trans-Dichloroethylene (CAS# 156-60-5)

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Aerosol 1; H222	In accordance with Regulation (EC) No. 1272/2008 (CLP) 2.3.2.2
Acute Tox. 4; H332	Specific Concentration Limit
Aquatic Chronic 3; H412	Summation Calculation

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Vishay Precision Group gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Vishay Precision Group accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

APPENDIX B
Data Usability Summary Reports and
Laboratory Analytical Reports

Data Usability Summary Report

Project Name: Carrier – Thompson Road

Project Description: Air Samples

Sample Date(s): 31 August 2022

Analytical Laboratory: Alpha Analytical, Inc. – Mansfield, MA

Validation Performed by: Therese Rowland

Validation Reviewed by: Katherine Miller

Validation Date: 3 February 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Number L2247390**
 - 2. Explanations**
 - 3. Glossary**
 - 4. Abbreviations**
 - 5. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- Analysis of Volatile Organic Compounds (VOCs) in Air Contained in Canisters by Method TO-15.

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOP). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQO) for the project and therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Number L2247390

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number L2247390, dated 07 September 2022. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
TR5A-SSV-1-20220831	N	L2247390-01	08/31/2022	GS	A
TR5A-IA-1-20220831	N	L2247390-02	08/31/2022	IA	A
TR5A-SSV-2-20220831	N	L2247390-03	08/31/2022	GS	A
TR5A-IA-2-20220831	N	L2247390-04	08/31/2022	IA	A
FD-IA-083122	FD	L2247390-05	08/31/2022	IA	A
TR5A-OA-1-20220831	N	L2247390-06	08/31/2022	AA	A

Method Holding Times			
A.	TO-15 SIM	VOCs	30 Days

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

No sample dilutions were performed for the analysis of the samples in this report.

1.4 LABORATORY CONTROL SAMPLES

[Refer to section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicates (LCS/LCSD) analyses exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.5 BLANK SAMPLE ANALYSIS

[Refer to section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.6 DUPLICATE SAMPLE ANALYSIS

[Refer to section E 1.6.](#) The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL):

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
L2247390-03	TR5A-SSV-2	TO-15 SIM

The following sample(s) were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 35 percent for air. Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Method(s)
TR5A-IA-2	FD-IA-083122	TO-15 SIM

1.7 PRECISION AND ACCURACY

[Refer to section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.8 CLEAN CANISTER CERTIFICATION

The canisters used for the TO-15 SIM sample collection were certified clean by individual can analysis prior to sampling to ensure that no target analytes were present. These analysis sheets were reviewed, and no target analytes were detected in the laboratory-provided canisters.

1.9 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. No qualifiers were applied to any data in this report.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g/kg}$ microgram per kilogram
 - $\mu\text{g/L}$ microgram per liter
 - $\mu\text{g/m}^3$ microgram per cubic meter
 - mg/kg milligram per kilogram
 - mg/L milligram per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - QW Water Quality
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - $\leq$ less than or equal to
 - > greater than
 - $\geq$ greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - $\pm$ plus or minus
 - $\sim$ approximately
 - x times (multiplier)

4. Abbreviations

%D	Percent Difference	mg/kg	milligrams per kilogram
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
µg/L	micrograms per liter	NFG	National Functional Guidelines
2s	2 sigma	NH ₃	Ammonia
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NYSDEC	New York State Department of Environmental Conservation
Abs Diff	Absolute Difference		
amu	atomic mass unit	PAH	polycyclic aromatic hydrocarbon
BPJ	Best Professional Judgement	PCB	Polychlorinated Biphenyl
BS	Blank Spike	PDS	Post Digestion Spike
CCB	Continuing Calibration Blank	PEM	Performance Evaluation Mixture
CCV	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
CCVL	Continuing Calibration Verification Low	PFBA	Perfluorobutanoic Acid
		PFD	Perfluorodecalin
COC	Chain of Custody	PFOA	Perfluorooctanoic Acid
COM	Combined Isotope Calculation	PFOS	Perfluorooctane sulfonate
Cr (VI)	Hexavalent Chromium	PFPeA	Perfluoropentanoic Acid
CRI	Collision Reaction Interface	QAPP	Quality Assurance Project Plan
DoD	Department of Defense	QC	Quality Control
DQO	data quality objective	QSM	Quality Systems Manual
DUSR	Data Usability Summary Report	R ²	R-squared value
EMPC	Estimated Maximum Possible Concentration	Ra-226	Radium-226
		Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass Spectrometry	RRF	Relative Response Factors
		RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	sampling analysis plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Laboratory Standard Operating Procedures
ICB	Initial Calibration Blank		
ICP/MS	Inductively Coupled Plasma/ Mass Spectrometry	SPE	Solid Phase Extraction
		SVOC	Semi-Volatile Organic Compounds
ICV	Initial Calibration Verification	TIC	Tentatively Identified Compound
ICVL	Initial Calibration Verification Low	TKN	Total Kjeldahl Nitrogen
IPA	Isopropyl Alcohol	TPH	Total Petroleum Hydrocarbon
LC	Laboratory Control	TPU	Total Propagated Uncertainty
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate	amu	atomic mass unit
		USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compounds
MDC	Minimum Detectable Concentration	WP	Work Plan
MDL	Laboratory Method Detection Limit		

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency (USEPA), 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP NO. HW-31, Revision 6. June 2014.
2. USEPA, 2020. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November 2020.

Data Usability Summary Report

Project Name: Carrier-Thompson Road

Project Description: Air Samples

Sample Date(s): 19 through 22 December 2022

Analytical Laboratory: Alpha Analytical, Inc.– Mansfield, MA

Validation Performed by: Therese Rowland

Validation Reviewed by: Katherine Miller

Validation Date: 6 January 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers L2271721, L2271728, L2272321, and L2272323**
 - 2. Precision and Accuracy [for SDG(s) above]**
 - 3. Explanations**
 - 4. Glossary**
 - 5. Abbreviations**
 - 6. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- Analysis of Volatile Organic Compounds (VOCs) in Air Contained in Canisters by Method TO-15.

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOP). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQO) for the project and therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers L2271721, L2271728, L2272321, and L2272323

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

- L2271721, dated 27 December 2022,
- L2271728, dated 27 December 2022,
- L2272321, dated 30 December 2022, and
- L2272323, dated 05 January 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- L2272321-03: The canister ID number for the sample is listed on the COC as 2424 but should be 2420.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
TR7-SSV-1-20221219	N	L2271721-01	12/19/2022	GS	A
TR7-IA-1-20221219	N	L2271721-02	12/19/2022	IA	A
TR7-SSV-2-20221219	N	L2271721-03	12/19/2022	GS	A
TR7-IA-2-20221219	N	L2271721-04	12/19/2022	IA	A
TR7-SSV-3-20221219	N	L2271721-05	12/19/2022	GS	A
TR7-IA-3-20221219	N	L2271721-06	12/19/2022	IA	A
TR7-SSV-4-20221219	N	L2271721-07	12/19/2022	GS	A
TR7-IA-4-20221219	N	L2271721-08	12/19/2022	IA	A
TR7-SSV-5-20221219	N	L2271721-09	12/19/2022	GS	A
TR7-IA-5-20221219	N	L2271721-10	12/19/2022	IA	A
TR7-SSV-6-20221219	N	L2271721-11	12/19/2022	GS	A
TR7-IA-6-20221219	N	L2271721-12	12/19/2022	IA	A
TR7A-SSV-1-20221219	N	L2271721-13	12/19/2022	GS	A
TR7A-IA-1-20221219	N	L2271721-14	12/19/2022	IA	A
TR7A-SSV-2-20221219	N	L2271721-15	12/19/2022	GS	A
TR7A-IA-2-20221219	N	L2271721-16	12/19/2022	IA	A
TR7-OA-1-20221219	N	L2271721-17	12/19/2022	AA	A
FD-SSV-121922-1	FD	L2271721-18	12/19/2022	GS	A
FD-IA-121922-1	FD	L2271721-19	12/19/2022	IA	A
TR4-SSV-1-20221220	N	L2271728-01	12/20/2022	GS	A
TR4-IA-1-20221220	N	L2271728-02	12/20/2022	IA	A

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
TR4-SSV-3-20221220	N	L2271728-03	12/20/2022	GS	A
TR4-IA-3-20221220	N	L2271728-04	12/20/2022	IA	A
TR4-SSV-4-20221220	N	L2271728-05	12/20/2022	GS	A
TR4-IA-4-20221220	N	L2271728-06	12/20/2022	IA	A
TR6A-SSV-1-20221220	N	L2271728-07	12/20/2022	GS	A, B
TR6A-IA-1-20221220	N	L2271728-08	12/20/2022	IA	A
TR6A-OA-1-20221220	N	L2271728-09	12/20/2022	AA	A
TR12-SSV-1-20221220	N	L2271728-10	12/20/2022	GS	A
TR12-IA-1-20221220	N	L2271728-11	12/20/2022	IA	A
TR12-OA-1-20221220	N	L2271728-12	12/20/2022	AA	A
TR5-SSV-1-20221221	N	L2272321-01	12/21/2022	GS	A
TR5-IA-1-20221221	N	L2272321-02	12/21/2022	IA	A
TR5-SSV-2-20221221	N	L2272321-03	12/21/2022	GS	A
TR5-IA-2-20221221	N	L2272321-04	12/21/2022	IA	A
TR5-SSV-3-20221221	N	L2272321-05	12/21/2022	GS	A
TR5-IA-3-20221221	N	L2272321-06	12/21/2022	IA	A
TR5-SSV-4-20221221	N	L2272321-07	12/21/2022	GS	A
TR5-IA-4-20221221	N	L2272321-08	12/21/2022	IA	A
TR5-SSV-5-20221221	N	L2272321-09	12/21/2022	GS	A
TR5-IA-5-20221221	N	L2272321-10	12/21/2022	IA	A
FD-SSV-122122	FD	L2272321-11	12/21/2022	GS	A
FD-IA-122122	FD	L2272321-12	12/21/2022	IA	A
TR5-OA-1-20221221	N	L2272321-13	12/21/2022	AA	A
TR19-SSV-7-20221222	N	L2272323-01	12/22/2022	GS	A
TR19-IA-7-20221222	N	L2272323-02	12/22/2022	IA	A
TR19-SSV-4-20221222	N	L2272323-03	12/22/2022	GS	A
TR19-SSV-5-20221222	N	L2272323-05	12/22/2022	GS	A
TR5A-SSV-1-20221222	N	L2272323-07	12/22/2022	GS	A
TR5A-IA-1-20221222	N	L2272323-08	12/22/2022	IA	A
TR5A-SSV-2-20221222	N	L2272323-09	12/22/2022	GS	A
TR5A-IA-2-20221222	N	L2272323-10	12/22/2022	IA	A
FD-SSV-122222-1	FD	L2272323-11	12/22/2022	GS	A
FD-IA-122222-1	FD	L2272323-12	12/22/2022	IA	A
TR5A-OA-1-20221222	N	L2272323-13	12/22/2022	AA	A
TR19-IA-4-A-20221222	N	L2272323-14	12/22/2022	IA	A
TR19-IA-5-A-20221222	N	L2272323-15	12/22/2022	IA	A

Method Holding Times			
A.	TO-15SIM	VOCs	30 Days
B.	TO-15	VOCs	30 Days

1.2 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQO of the project.

Lab ID	Method	Analyte	Qualification
L2272321-07D	TO-15SIM	1,1,1-Trichloroethane, Trichloroethene	The laboratory reanalyzed the sample due to exceedance of calibration range. The original results are marked non-reportable and the reanalysis results are accepted.
L2272321-10	TO-15SIM	trans-1,2-Dichloroethene	
L2272323-01	TO-15SIM	Trichloroethene	
L2272323-09D	TO-15SIM	Ethylbenzene, m,p-Xylenes	

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below:

- L2271728-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample. The results for 1,1,1-Tetrachloroethene have been reported by TO15 full scan.
- L2272321-07D2, -10D, and -11D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.
- L2272323-01D, and 09D2: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.
- L2272323-11D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

1.5 LABORATORY CONTROL SAMPLES

[Refer to section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicates (LCS/LCSD) analyses exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.6 BLANK SAMPLE ANALYSIS

[Refer to section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.7 DUPLICATE SAMPLE ANALYSIS

[Refer to section E 1.6.](#) The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent:

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
L2271721-14	TR7A-IA-1	TO15SIM
L2271728-04	TR4-IA-3	TO15SIM
L2272321-08	TR5-IA-4	TO15SIM
L2272323-08	TR5A-IA-1	TO15SIM

The following sample(s) were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 35 percent for air. Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Method(s)
TR5-IA-2-20221221	FD-IA-122122	TO15SIM
TR5-SSV-2-20221221	FD-SSV-122122	TO15SIM
TR19-IA-4-A-20221222	FD-IA-122222-1	TO15SIM
TR19-SSV-4-20221222	FD-SSV-122222-1	TO15SIM
TR7-IA-4-20221219	FD-IA-121922-1	TO15SIM
TR7-SSV-4-20221219	FD-SSV-121922-1	TO15SIM

Field Duplicate RPD Calculations:

Method(s): USEPA TO-15SIM				
Analyte ($\mu\text{g}/\text{m}^3$)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	TR5-SSV-2-20221221	FD-SSV-122122		
1,1,1-Trichloroethane	3.14	5.13	48	J, RPD>35
Ethylbenzene	58.2	93.4	46	J, RPD>35
Methylene chloride (Dichloromethane)	ND	9.45	54	J, RPD>35
Tetrachloroethene	6.39	3.52	58	J, RPD>35
Toluene	27.9	47.5	52	J, RPD>35
Trichloroethene	55.9	96.2	53	J, RPD>35
Xylene (Total)	331	565	52	J, RPD>35
cis-1,2-Dichloroethene	0.083	ND	100	J, RPD>35
m,p-Xylenes	222	385	54	J, RPD>35
o-Xylene	109	179	49	J, RPD>35
trans-1,2-Dichloroethene	0.127	ND	65	J, RPD>35
Analyte ($\mu\text{g}/\text{m}^3$)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	TR7-IA-4-20221219	FD-IA-121922-1		
Ethylbenzene	0.161	1.31	156	J, RPD>35
m,p-Xylenes	0.482	0.699	37	J, RPD>35

Method(s): USEPA TO-15SIM				
Analyte ($\mu\text{g}/\text{m}^3$)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	TR19-IA-4-A-20221222	FD-IA-122222-1		
trans-1,2-Dichloroethene	0.167	0.579	110	J, RPD>35
Analyte ($\mu\text{g}/\text{m}^3$)	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	TR19-SSV-4-20221222	FD-SSV-122222-1		
Ethylbenzene	1.12	1.65	38	J, RPD>35
Methylene chloride (Dichloromethane)	8.06	ND	106	J, RPD>35

1.8 CLEAN CANISTER CERTIFICATION

The canisters used for the TO-15 SIM sample collection were certified clean by individual can analysis prior to sampling to ensure that no target analytes were present. These analysis sheets were reviewed, and no target analytes were detected in the laboratory-provided canisters.

1.9 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. The qualifiers applied to this data set are summarized in the table below.

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
TR5-SSV-2-20221221	1,1,1-Trichloroethane	48	48 J	Field Duplicate Calculations, RPD >35%
	Ethylbenzene	46	46 J	
	Methylene chloride (Dichloromethane)	54	54 J	
	Tetrachloroethene	58	58 J	
	Toluene	52	52 J	
	Trichloroethene	53	53 J	
	Xylene (Total)	52	52 J	
	cis-1,2-Dichloroethene	100	100 J	
	m,p-Xylenes	54	54 J	
	o-Xylene	49	49 J	
	trans-1,2-Dichloroethene	65	65 J	
TR7-IA-4-20221219	Ethylbenzene	156	156 J	
	m,p-Xylenes	37	37 J	
TR19-IA-4-A-20221222	trans-1,2-Dichloroethene	110	110 J	
TR19-SSV-4-20221222	Ethylbenzene	38	38 J	
	Methylene chloride (Dichloromethane)	106	106 J	

2. Precision and Accuracy [for SDG(s) above]

[Refer to section E 1.7.](#) Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g/kg}$ microgram per kilogram
 - $\mu\text{g/L}$ microgram per liter
 - $\mu\text{g/m}^3$ microgram per cubic meter
 - mg/kg milligram per kilogram
 - mg/L milligram per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - QW Water Quality
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - $\leq$ less than or equal to
 - > greater than
 - $\geq$ greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - $\pm$ plus or minus
 - $\sim$ approximately
 - x times (multiplier)

5. Abbreviations

%D	Percent Difference	mg/kg	milligrams per kilogram
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
µg/L	micrograms per liter	NFG	National Functional Guidelines
2s	2 sigma	NH ₃	Ammonia
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NYSDEC	New York State Department of Environmental Conservation
Abs Diff	Absolute Difference		
amu	atomic mass unit	PAH	polycyclic aromatic hydrocarbon
BPJ	Best Professional Judgement	PCB	Polychlorinated Biphenyl
BS	Blank Spike	PDS	Post Digestion Spike
CCB	Continuing Calibration Blank	PEM	Performance Evaluation Mixture
CCV	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
CCVL	Continuing Calibration Verification Low	PFBA	Perfluorobutanoic Acid
		PFD	Perfluorodecalin
COC	Chain of Custody	PFOA	Perfluorooctanoic Acid
COM	Combined Isotope Calculation	PFOS	Perfluorooctane sulfonate
Cr (VI)	Hexavalent Chromium	PFPeA	Perfluoropentanoic Acid
CRI	Collision Reaction Interface	QAPP	Quality Assurance Project Plan
DoD	Department of Defense	QC	Quality Control
DQO	data quality objective	QSM	Quality Systems Manual
DUSR	Data Usability Summary Report	R ²	R-squared value
EMPC	Estimated Maximum Possible Concentration	Ra-226	Radium-226
		Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass Spectrometry	RRF	Relative Response Factors
		RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	sampling analysis plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Laboratory Standard Operating Procedures
ICB	Initial Calibration Blank		
ICP/MS	Inductively Coupled Plasma/ Mass Spectrometry	SPE	Solid Phase Extraction
		SVOC	Semi-Volatile Organic Compounds
ICV	Initial Calibration Verification	TIC	Tentatively Identified Compound
ICVL	Initial Calibration Verification Low	TKN	Total Kjeldahl Nitrogen
IPA	Isopropyl Alcohol	TPH	Total Petroleum Hydrocarbon
LC	Laboratory Control	TPU	Total Propagated Uncertainty
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate	amu	atomic mass unit
		USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compounds
MDC	Minimum Detectable Concentration	WP	Work Plan
MDL	Laboratory Method Detection Limit		

6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency (USEPA), 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP NO. HW-31, Revision 6. June 2014.
2. USEPA, 2020. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November 2020.



ANALYTICAL REPORT

Lab Number:	L2271728
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623
ATTN:	Jennifer Kingston
Phone:	(913) 693-1905
Project Name:	CARRIER-THOMPSON RD.
Project Number:	201049-004
Report Date:	12/27/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2271728

Report Date: 12/27/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2271728-01	TR4-SSV-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/20/22 11:02	12/20/22
L2271728-02	TR4-IA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/20/22 15:35	12/20/22
L2271728-03	TR4-SSV-3	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/20/22 15:48	12/20/22
L2271728-04	TR4-IA-3	AIR	THOMPSON RD, SYRACUSE, NY	12/20/22 15:49	12/20/22
L2271728-05	TR4-SSV-4	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/20/22 16:01	12/20/22
L2271728-06	TR4-IA-4	AIR	THOMPSON RD, SYRACUSE, NY	12/20/22 16:02	12/20/22
L2271728-07	TR6A-SSV-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/20/22 16:25	12/20/22
L2271728-08	TR6A-IA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/20/22 16:20	12/20/22
L2271728-09	TR6A-OA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/20/22 16:30	12/20/22
L2271728-10	TR12-SSV-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/20/22 16:52	12/20/22
L2271728-11	TR12-IA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/20/22 17:55	12/20/22
L2271728-12	TR12-OA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/20/22 16:57	12/20/22

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2271728
Report Date: 12/27/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2271728
Report Date: 12/27/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 12, 2022. The canister certification results are provided as an addendum.

2271728-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample. The results for 1,1,1-Tetrachloroethene have been reported by TO15 full scan.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 12/27/22

AIR

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-01
 Client ID: TR4-SSV-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 11:02
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 22:28
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.030	0.020	--	0.119	0.079	--		1
1,1-Dichloroethane	0.090	0.020	--	0.364	0.081	--		1
cis-1,2-Dichloroethene	0.046	0.020	--	0.182	0.079	--		1
1,1,1-Trichloroethane	7.33	0.020	--	40.0	0.109	--		1
Benzene	0.160	0.100	--	0.511	0.319	--		1
Carbon tetrachloride	0.135	0.020	--	0.849	0.126	--		1
Trichloroethene	16.2	0.020	--	87.1	0.107	--		1
Toluene	0.498	0.100	--	1.88	0.377	--		1
Tetrachloroethene	0.290	0.020	--	1.97	0.136	--		1
Ethylbenzene	0.238	0.020	--	1.03	0.087	--		1
p/m-Xylene	0.967	0.040	--	4.20	0.174	--		1
o-Xylene	0.383	0.020	--	1.66	0.087	--		1
Xylenes, Total	1.35	0.020	--	5.86	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-02
 Client ID: TR4-IA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 15:35
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 18:07
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.024	0.020	--	0.095	0.079	--		1
1,1,1-Trichloroethane	0.024	0.020	--	0.131	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--		1
Trichloroethene	0.031	0.020	--	0.167	0.107	--		1
Toluene	0.107	0.100	--	0.403	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.024	0.020	--	0.104	0.087	--		1
p/m-Xylene	0.059	0.040	--	0.256	0.174	--		1
o-Xylene	0.022	0.020	--	0.096	0.087	--		1
Xylenes, Total	0.081	0.020	--	0.352	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-03
 Client ID: TR4-SSV-3
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 15:48
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 23:09
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.129	0.020	--	0.511	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.027	0.020	--	0.107	0.079	--		1
1,1-Dichloroethane	1.54	0.020	--	6.23	0.081	--		1
cis-1,2-Dichloroethene	1.46	0.020	--	5.79	0.079	--		1
1,1,1-Trichloroethane	5.06	0.020	--	27.6	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	2.30	0.020	--	12.4	0.107	--		1
Toluene	0.513	0.100	--	1.93	0.377	--		1
Tetrachloroethene	0.107	0.020	--	0.726	0.136	--		1
Ethylbenzene	0.256	0.020	--	1.11	0.087	--		1
p/m-Xylene	1.04	0.040	--	4.52	0.174	--		1
o-Xylene	0.417	0.020	--	1.81	0.087	--		1
Xylenes, Total	1.46	0.020	--	6.34	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-04
 Client ID: TR4-IA-3
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 15:49
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 18:49
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.120	0.020	--	0.486	0.081	--		1
cis-1,2-Dichloroethene	0.129	0.020	--	0.511	0.079	--		1
1,1,1-Trichloroethane	0.204	0.020	--	1.11	0.109	--		1
Benzene	0.110	0.100	--	0.351	0.319	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	0.158	0.020	--	0.849	0.107	--		1
Toluene	0.126	0.100	--	0.475	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.314	0.020	--	1.36	0.087	--		1
p/m-Xylene	1.21	0.040	--	5.26	0.174	--		1
o-Xylene	0.297	0.020	--	1.29	0.087	--		1
Xylenes, Total	1.51	0.020	--	6.56	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-05
 Client ID: TR4-SSV-4
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:01
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 23:51
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.292	0.020	--	1.16	0.079	--		1
1,1-Dichloroethane	0.182	0.020	--	0.737	0.081	--		1
cis-1,2-Dichloroethene	0.292	0.020	--	1.16	0.079	--		1
1,1,1-Trichloroethane	1.02	0.020	--	5.57	0.109	--		1
Benzene	0.156	0.100	--	0.498	0.319	--		1
Carbon tetrachloride	0.096	0.020	--	0.604	0.126	--		1
Trichloroethene	9.32	0.020	--	50.1	0.107	--		1
Toluene	0.746	0.100	--	2.81	0.377	--		1
Tetrachloroethene	0.697	0.020	--	4.73	0.136	--		1
Ethylbenzene	0.805	0.020	--	3.50	0.087	--		1
p/m-Xylene	3.25	0.040	--	14.1	0.174	--		1
o-Xylene	0.958	0.020	--	4.16	0.087	--		1
Xylenes, Total	4.21	0.020	--	18.3	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-06
 Client ID: TR4-IA-4
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:02
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 20:11
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.082	0.020	--	0.325	0.079	--		1
1,1-Dichloroethane	0.035	0.020	--	0.142	0.081	--		1
cis-1,2-Dichloroethene	0.042	0.020	--	0.167	0.079	--		1
1,1,1-Trichloroethane	0.185	0.020	--	1.01	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.091	0.020	--	0.489	0.107	--		1
Toluene	0.291	0.100	--	1.10	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	2.68	0.020	--	11.6	0.087	--		1
p/m-Xylene	10.6	0.040	--	46.0	0.174	--		1
o-Xylene	2.64	0.020	--	11.5	0.087	--		1
Xylenes, Total	13.2	0.020	--	57.3	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-07 D

Client ID: TR6A-SSV-1

Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:25

Date Received: 12/20/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 12/27/22 00:33

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,1,1-Trichloroethane	161	0.400	--	878	2.18	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-07 D
 Client ID: TR6A-SSV-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:25
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 00:33
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.040	--	ND	0.102	--		2
1,1-Dichloroethene	0.052	0.040	--	0.206	0.159	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
trans-1,2-Dichloroethene	ND	0.040	--	ND	0.159	--		2
1,1-Dichloroethane	ND	0.040	--	ND	0.162	--		2
cis-1,2-Dichloroethene	ND	0.040	--	ND	0.159	--		2
Benzene	ND	0.200	--	ND	0.639	--		2
Carbon tetrachloride	5.09	0.040	--	32.0	0.252	--		2
Trichloroethene	2.15	0.040	--	11.6	0.215	--		2
Toluene	0.618	0.200	--	2.33	0.754	--		2
Tetrachloroethene	44.4	0.040	--	301	0.271	--		2
Ethylbenzene	0.312	0.040	--	1.36	0.174	--		2
p/m-Xylene	1.22	0.080	--	5.30	0.347	--		2
o-Xylene	0.520	0.040	--	2.26	0.174	--		2
Xylenes, Total	1.74	0.040	--	7.56	0.174	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-08
 Client ID: TR6A-IA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:20
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 20:52
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.108	0.100	--	0.345	0.319	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.020	0.020	--	0.107	0.107	--		1
Toluene	0.176	0.100	--	0.663	0.377	--		1
Tetrachloroethene	0.029	0.020	--	0.197	0.136	--		1
Ethylbenzene	0.199	0.020	--	0.864	0.087	--		1
p/m-Xylene	0.781	0.040	--	3.39	0.174	--		1
o-Xylene	0.318	0.020	--	1.38	0.087	--		1
Xylenes, Total	1.10	0.020	--	4.78	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-09
 Client ID: TR6A-OA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:30
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 16:45
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.070	0.020	--	0.440	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.020	0.020	--	0.087	0.087	--		1
p/m-Xylene	0.059	0.040	--	0.256	0.174	--		1
o-Xylene	0.020	0.020	--	0.087	0.087	--		1
Xylenes, Total	0.079	0.020	--	0.343	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-10
 Client ID: TR12-SSV-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:52
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 01:14
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.197	0.020	--	0.781	0.079	--		1
1,1-Dichloroethane	2.21	0.020	--	8.94	0.081	--		1
cis-1,2-Dichloroethene	7.84	0.020	--	31.1	0.079	--		1
1,1,1-Trichloroethane	1.63	0.020	--	8.89	0.109	--		1
Benzene	0.225	0.100	--	0.719	0.319	--		1
Carbon tetrachloride	0.144	0.020	--	0.906	0.126	--		1
Trichloroethene	33.7	0.020	--	181	0.107	--		1
Toluene	1.42	0.100	--	5.35	0.377	--		1
Tetrachloroethene	1.23	0.020	--	8.34	0.136	--		1
Ethylbenzene	0.593	0.020	--	2.58	0.087	--		1
p/m-Xylene	2.51	0.040	--	10.9	0.174	--		1
o-Xylene	1.33	0.020	--	5.78	0.087	--		1
Xylenes, Total	3.84	0.020	--	16.7	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-11

Date Collected: 12/20/22 17:55

Client ID: TR12-IA-1

Date Received: 12/20/22

Sample Location: THOMPSON RD, SYRACUSE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/26/22 21:45

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.034	0.020	--	0.087	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.022	0.020	--	0.089	0.081	--		1
cis-1,2-Dichloroethene	0.131	0.020	--	0.519	0.079	--		1
1,1,1-Trichloroethane	0.190	0.020	--	1.04	0.109	--		1
Benzene	0.902	0.100	--	2.88	0.319	--		1
Carbon tetrachloride	0.086	0.020	--	0.541	0.126	--		1
Trichloroethene	0.123	0.020	--	0.661	0.107	--		1
Toluene	3.98	0.100	--	15.0	0.377	--		1
Tetrachloroethene	0.031	0.020	--	0.210	0.136	--		1
Ethylbenzene	0.478	0.020	--	2.08	0.087	--		1
p/m-Xylene	1.84	0.040	--	7.99	0.174	--		1
o-Xylene	0.641	0.020	--	2.78	0.087	--		1
Xylenes, Total	2.48	0.020	--	10.8	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271728-12
 Client ID: TR12-OA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/20/22 16:57
 Date Received: 12/20/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/26/22 17:26
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.100	0.100	--	0.319	0.319	--		1
Carbon tetrachloride	0.074	0.020	--	0.465	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.113	0.100	--	0.426	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.034	0.020	--	0.148	0.087	--		1
p/m-Xylene	0.095	0.040	--	0.413	0.174	--		1
o-Xylene	0.036	0.020	--	0.156	0.087	--		1
Xylenes, Total	0.131	0.020	--	0.569	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/26/22 15:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-12 Batch: WG1727482-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22

Method Blank Analysis

Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/26/22 14:49

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 07 Batch: WG1727484-4								
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1



Lab Control Sample Analysis Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2271728

Report Date: 12/27/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-12 Batch: WG1727482-3								
Vinyl chloride	84		-		70-130	-		25
1,1-Dichloroethene	96		-		70-130	-		25
Methylene chloride	95		-		70-130	-		25
trans-1,2-Dichloroethene	89		-		70-130	-		25
1,1-Dichloroethane	94		-		70-130	-		25
cis-1,2-Dichloroethene	94		-		70-130	-		25
1,1,1-Trichloroethane	104		-		70-130	-		25
Benzene	90		-		70-130	-		25
Carbon tetrachloride	107		-		70-130	-		25
Trichloroethene	93		-		70-130	-		25
Toluene	90		-		70-130	-		25
Tetrachloroethene	87		-		70-130	-		25
Ethylbenzene	97		-		70-130	-		25
p/m-Xylene	99		-		70-130	-		25
o-Xylene	99		-		70-130	-		25

Lab Control Sample Analysis**Batch Quality Control****Project Name:** CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 07 Batch: WG1727484-3								
1,1,1-Trichloroethane	110		-		70-130	-		

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Duplicate Analysis Batch Quality Control

Lab Number: L2271728

Report Date: 12/27/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1727482-5 QC Sample: L2271728-04 Client ID: TR4-IA-3						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	0.120	0.120	ppbV	0		25
cis-1,2-Dichloroethene	0.129	0.129	ppbV	0		25
1,1,1-Trichloroethane	0.204	0.208	ppbV	2		25
Benzene	0.110	0.112	ppbV	2		25
Carbon tetrachloride	0.082	0.081	ppbV	1		25
Trichloroethene	0.158	0.158	ppbV	0		25
Toluene	0.126	0.125	ppbV	1		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Ethylbenzene	0.314	0.314	ppbV	0		25
p/m-Xylene	1.21	1.21	ppbV	0		25
o-Xylene	0.297	0.293	ppbV	1		25
Xylenes, Total	1.51	1.51	ppbV	0		25

Project Name: CARRIER-THOMPSON RD.

Serial_No:12272215:15
Lab Number: L2271728

Project Number: 201049-004

Report Date: 12/27/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2271728-01	TR4-SSV-1	0010	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	11.1	85
L2271728-01	TR4-SSV-1	3231	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.9	-5.3	-	-	-	-
L2271728-02	TR4-IA-1	01304	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	5.2	14
L2271728-02	TR4-IA-1	551	2.7L Can	12/12/22	405164	L2266535-32	Pass	-30.0	0.0	-	-	-	-
L2271728-03	TR4-SSV-3	01006	Flow 5	12/12/22	405164		-	-	-	Pass	4.5	5.2	14
L2271728-03	TR4-SSV-3	2230	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.8	-6.1	-	-	-	-
L2271728-04	TR4-IA-3	01470	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	5.1	13
L2271728-04	TR4-IA-3	147	2.7L Can	12/12/22	405164	L2266535-34	Pass	-30.2	-4.3	-	-	-	-
L2271728-05	TR4-SSV-4	01503	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	5.2	14
L2271728-05	TR4-SSV-4	3199	2.7L Can	12/12/22	405164	L2268214-06	Pass	-30.0	-7.3	-	-	-	-
L2271728-06	TR4-IA-4	02187	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.9	9
L2271728-06	TR4-IA-4	386	2.7L Can	12/12/22	405164	L2266535-33	Pass	-30.2	-5.7	-	-	-	-
L2271728-07	TR6A-SSV-1	01471	Flow 5	12/12/22	405164		-	-	-	Pass	4.5	4.8	6
L2271728-07	TR6A-SSV-1	221	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.8	-5.0	-	-	-	-
L2271728-08	TR6A-IA-1	02088	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	6.2	32

Project Name: CARRIER-THOMPSON RD.

Serial_No:12272215:15
Lab Number: L2271728

Project Number: 201049-004

Report Date: 12/27/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2271728-08	TR6A-IA-1	3730	2.7L Can	12/12/22	405164	L2266535-31	Pass	-30.0	-3.2	-	-	-	-
L2271728-09	TR6A-OA-1	01413	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2271728-09	TR6A-OA-1	1734	2.7L Can	12/12/22	405164	L2266535-35	Pass	-30.2	-4.2	-	-	-	-
L2271728-10	TR12-SSV-1	01369	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2271728-10	TR12-SSV-1	3114	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.9	-6.6	-	-	-	-
L2271728-11	TR12-IA-1	01788	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	2.9	43
L2271728-11	TR12-IA-1	2825	2.7L Can	12/12/22	405164	L2266535-41	Pass	-30.1	-14.1	-	-	-	-
L2271728-12	TR12-OA-1	01512	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	5.5	20
L2271728-12	TR12-OA-1	2361	2.7L Can	12/12/22	405164	L2266535-43	Pass	-30.1	0.0	-	-	-	-

Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-31
Client ID: CAN 3730 FC 02187
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 03:13
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	90		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-32
Client ID: CAN 551 FC 02088
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 03:49
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	105		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-33
Client ID: CAN 386 FC 01470
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 04:26
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	95		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-34
Client ID: CAN 147 FC 01304
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 22:33
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	80		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	79		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-35
Client ID: CAN 1734 FC 01788
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 23:10
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	76		60-140
bromochloromethane	76		60-140
chlorobenzene-d5	76		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-41
Client ID: CAN 2825 FC 01413
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/04/22 02:14
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	75		60-140
bromochloromethane	76		60-140
chlorobenzene-d5	77		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-43
Client ID: CAN 2361 FC 01627
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/04/22 03:28
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	73		60-140
bromochloromethane	73		60-140
chlorobenzene-d5	75		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2268214**Project Number:** CANISTER QC BAT**Report Date:** 12/27/22**Air Canister Certification Results**

Lab ID: L2268214-06

Date Collected: 12/06/22 11:00

Client ID: CAN 178 SHELF 7

Date Received: 12/06/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2268214**Project Number:** CANISTER QC BAT**Report Date:** 12/27/22**Air Canister Certification Results**

Lab ID: L2268214-06

Date Collected: 12/06/22 11:00

Client ID: CAN 178 SHELF 7

Date Received: 12/06/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271728-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2271728-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-09A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-10A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-11A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2271728-12A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271728**Project Number:** 201049-004**Report Date:** 12/27/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2271728
Report Date: 12/27/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2271728
Report Date: 12/27/22

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2271728
Report Date: 12/27/22

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

[illegible]



ANALYTICAL REPORT

Lab Number:	L2271721
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623
ATTN:	Jennifer Kingston
Phone:	(913) 693-1905
Project Name:	CARRIER-THOMPSON RD.
Project Number:	201049
Report Date:	12/27/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: CARRIER-THOMPSON RD.

Project Number: 201049

Lab Number: L2271721

Report Date: 12/27/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2271721-01	TR7-SSV-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 15:30	12/19/22
L2271721-02	TR7-IA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 15:34	12/19/22
L2271721-03	TR7-SSV-2	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 15:55	12/19/22
L2271721-04	TR7-IA-2	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 15:56	12/19/22
L2271721-05	TR7-SSV-3	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:09	12/19/22
L2271721-06	TR7-IA-3	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:29	12/19/22
L2271721-07	TR7-SSV-4	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:37	12/19/22
L2271721-08	TR7-IA-4	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:38	12/19/22
L2271721-09	TR7-SSV-5	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 15:26	12/19/22
L2271721-10	TR7-IA-5	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:18	12/19/22
L2271721-11	TR7-SSV-6	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 14:12	12/19/22
L2271721-12	TR7-IA-6	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:12	12/19/22
L2271721-13	TR7A-SSV-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:48	12/19/22
L2271721-14	TR7A-IA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:48	12/19/22
L2271721-15	TR7A-SSV-2	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:30	12/19/22
L2271721-16	TR7A-IA-2	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 17:00	12/19/22
L2271721-17	TR7-OA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/19/22 16:55	12/19/22
L2271721-18	FD-SSV-121922-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY		12/19/22
L2271721-19	FD-IA-121922-1	AIR	THOMPSON RD, SYRACUSE, NY		12/19/22
L2271721-20	UNUSED #2879	AIR	THOMPSON RD, SYRACUSE, NY		12/19/22

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049

Lab Number: L2271721
Report Date: 12/27/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049

Lab Number: L2271721
Report Date: 12/27/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 12, 2022. The canister certification results are provided as an addendum.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 12/27/22

AIR

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-01
 Client ID: TR7-SSV-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 15:30
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/24/22 08:19
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.159	0.020	--	0.630	0.079	--		1
1,1-Dichloroethane	3.52	0.020	--	14.2	0.081	--		1
cis-1,2-Dichloroethene	5.46	0.020	--	21.6	0.079	--		1
1,1,1-Trichloroethane	2.29	0.020	--	12.5	0.109	--		1
Benzene	0.744	0.100	--	2.38	0.319	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Trichloroethene	8.40	0.020	--	45.1	0.107	--		1
Toluene	2.12	0.100	--	7.99	0.377	--		1
Tetrachloroethene	0.197	0.020	--	1.34	0.136	--		1
Ethylbenzene	0.937	0.020	--	4.07	0.087	--		1
p/m-Xylene	2.98	0.040	--	12.9	0.174	--		1
o-Xylene	1.82	0.020	--	7.91	0.087	--		1
Xylenes, Total	4.80	0.020	--	20.8	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	107		60-140
chlorobenzene-d5	117		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-02
 Client ID: TR7-IA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 15:34
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 18:38
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.027	0.020	--	0.109	0.081	--		1
cis-1,2-Dichloroethene	0.073	0.020	--	0.289	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.135	0.100	--	0.431	0.319	--		1
Carbon tetrachloride	0.084	0.020	--	0.528	0.126	--		1
Trichloroethene	0.116	0.020	--	0.623	0.107	--		1
Toluene	0.155	0.100	--	0.584	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.037	0.020	--	0.161	0.087	--		1
p/m-Xylene	0.113	0.040	--	0.491	0.174	--		1
o-Xylene	0.056	0.020	--	0.243	0.087	--		1
Xylenes, Total	0.169	0.020	--	0.734	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-03
 Client ID: TR7-SSV-2
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 15:55
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/24/22 01:27
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.231	0.020	--	0.935	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	2.86	0.020	--	15.6	0.109	--		1
Benzene	0.251	0.100	--	0.802	0.319	--		1
Carbon tetrachloride	0.110	0.020	--	0.692	0.126	--		1
Trichloroethene	1.72	0.020	--	9.24	0.107	--		1
Toluene	1.27	0.100	--	4.79	0.377	--		1
Tetrachloroethene	0.073	0.020	--	0.495	0.136	--		1
Ethylbenzene	22.6	0.020	--	98.2	0.087	--		1
p/m-Xylene	62.1	0.040	--	270	0.174	--		1
o-Xylene	46.1	0.020	--	200	0.087	--		1
Xylenes, Total	108	0.020	--	469	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	102		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	104		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-04
 Client ID: TR7-IA-2
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 15:56
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 19:19
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.025	0.020	--	0.101	0.081	--		1
cis-1,2-Dichloroethene	0.062	0.020	--	0.246	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.130	0.100	--	0.415	0.319	--		1
Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--		1
Trichloroethene	0.110	0.020	--	0.591	0.107	--		1
Toluene	0.321	0.100	--	1.21	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.039	0.020	--	0.169	0.087	--		1
p/m-Xylene	0.120	0.040	--	0.521	0.174	--		1
o-Xylene	0.062	0.020	--	0.269	0.087	--		1
Xylenes, Total	0.182	0.020	--	0.791	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-05
 Client ID: TR7-SSV-3
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:09
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/24/22 02:09
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.048	0.020	--	0.194	0.081	--		1
cis-1,2-Dichloroethene	0.060	0.020	--	0.238	0.079	--		1
1,1,1-Trichloroethane	0.137	0.020	--	0.747	0.109	--		1
Benzene	0.138	0.100	--	0.441	0.319	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
Trichloroethene	0.765	0.020	--	4.11	0.107	--		1
Toluene	1.06	0.100	--	3.99	0.377	--		1
Tetrachloroethene	0.063	0.020	--	0.427	0.136	--		1
Ethylbenzene	0.466	0.020	--	2.02	0.087	--		1
p/m-Xylene	1.86	0.040	--	8.08	0.174	--		1
o-Xylene	0.824	0.020	--	3.58	0.087	--		1
Xylenes, Total	2.69	0.020	--	11.7	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	111		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-06
 Client ID: TR7-IA-3
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:29
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 19:59
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.023	0.020	--	0.093	0.081	--		1
cis-1,2-Dichloroethene	0.052	0.020	--	0.206	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.129	0.100	--	0.412	0.319	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Trichloroethene	0.088	0.020	--	0.473	0.107	--		1
Toluene	0.155	0.100	--	0.584	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.038	0.020	--	0.165	0.087	--		1
p/m-Xylene	0.120	0.040	--	0.521	0.174	--		1
o-Xylene	0.059	0.020	--	0.256	0.087	--		1
Xylenes, Total	0.179	0.020	--	0.777	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-07

Client ID: TR7-SSV-4

Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:37

Date Received: 12/19/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/24/22 02:50

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.246	0.020	--	0.629	0.051	--		1
1,1-Dichloroethene	0.171	0.020	--	0.678	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.236	0.020	--	0.936	0.079	--		1
1,1-Dichloroethane	4.29	0.020	--	17.4	0.081	--		1
cis-1,2-Dichloroethene	12.0	0.020	--	47.6	0.079	--		1
1,1,1-Trichloroethane	1.11	0.020	--	6.06	0.109	--		1
Benzene	0.134	0.100	--	0.428	0.319	--		1
Carbon tetrachloride	0.092	0.020	--	0.579	0.126	--		1
Trichloroethene	15.2	0.020	--	81.7	0.107	--		1
Toluene	0.830	0.100	--	3.13	0.377	--		1
Tetrachloroethene	0.251	0.020	--	1.70	0.136	--		1
Ethylbenzene	0.505	0.020	--	2.19	0.087	--		1
p/m-Xylene	2.03	0.040	--	8.82	0.174	--		1
o-Xylene	1.50	0.020	--	6.52	0.087	--		1
Xylenes, Total	3.53	0.020	--	15.3	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	106		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	111		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-08
 Client ID: TR7-IA-4
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:38
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 20:41
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.029	0.020	--	0.117	0.081	--		1
cis-1,2-Dichloroethene	0.074	0.020	--	0.293	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.134	0.100	--	0.428	0.319	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	0.124	0.020	--	0.666	0.107	--		1
Toluene	0.155	0.100	--	0.584	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.037	0.020	--	0.161	0.087	--		1
p/m-Xylene	0.111	0.040	--	0.482	0.174	--		1
o-Xylene	0.054	0.020	--	0.235	0.087	--		1
Xylenes, Total	0.165	0.020	--	0.717	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-09

Client ID: TR7-SSV-5

Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 15:26

Date Received: 12/19/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/24/22 03:31

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.045	0.020	--	0.182	0.081	--		1
cis-1,2-Dichloroethene	0.043	0.020	--	0.170	0.079	--		1
1,1,1-Trichloroethane	0.462	0.020	--	2.52	0.109	--		1
Benzene	0.120	0.100	--	0.383	0.319	--		1
Carbon tetrachloride	0.087	0.020	--	0.547	0.126	--		1
Trichloroethene	0.641	0.020	--	3.44	0.107	--		1
Toluene	1.01	0.100	--	3.81	0.377	--		1
Tetrachloroethene	0.051	0.020	--	0.346	0.136	--		1
Ethylbenzene	0.456	0.020	--	1.98	0.087	--		1
p/m-Xylene	1.95	0.040	--	8.47	0.174	--		1
o-Xylene	0.817	0.020	--	3.55	0.087	--		1
Xylenes, Total	2.77	0.020	--	12.0	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	116		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-10
 Client ID: TR7-IA-5
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:18
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 21:22
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.023	0.020	--	0.093	0.081	--		1
cis-1,2-Dichloroethene	0.061	0.020	--	0.242	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.120	0.100	--	0.383	0.319	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Trichloroethene	0.098	0.020	--	0.527	0.107	--		1
Toluene	0.151	0.100	--	0.569	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.033	0.020	--	0.143	0.087	--		1
p/m-Xylene	0.102	0.040	--	0.443	0.174	--		1
o-Xylene	0.049	0.020	--	0.213	0.087	--		1
Xylenes, Total	0.151	0.020	--	0.656	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-11
 Client ID: TR7-SSV-6
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 14:12
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/24/22 04:12
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.034	0.020	--	0.138	0.081	--		1
cis-1,2-Dichloroethene	0.026	0.020	--	0.103	0.079	--		1
1,1,1-Trichloroethane	0.318	0.020	--	1.74	0.109	--		1
Benzene	0.206	0.100	--	0.658	0.319	--		1
Carbon tetrachloride	0.121	0.020	--	0.761	0.126	--		1
Trichloroethene	1.05	0.020	--	5.64	0.107	--		1
Toluene	1.54	0.100	--	5.80	0.377	--		1
Tetrachloroethene	0.024	0.020	--	0.163	0.136	--		1
Ethylbenzene	0.620	0.020	--	2.69	0.087	--		1
p/m-Xylene	2.47	0.040	--	10.7	0.174	--		1
o-Xylene	1.12	0.020	--	4.86	0.087	--		1
Xylenes, Total	3.59	0.020	--	15.6	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	110		60-140
chlorobenzene-d5	119		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-12
 Client ID: TR7-IA-6
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:12
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 22:02
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.024	0.020	--	0.097	0.081	--		1
cis-1,2-Dichloroethene	0.059	0.020	--	0.234	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.130	0.100	--	0.415	0.319	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
Trichloroethene	0.129	0.020	--	0.693	0.107	--		1
Toluene	0.235	0.100	--	0.886	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.052	0.020	--	0.226	0.087	--		1
p/m-Xylene	0.171	0.040	--	0.743	0.174	--		1
o-Xylene	0.080	0.020	--	0.347	0.087	--		1
Xylenes, Total	0.251	0.020	--	1.09	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-13
 Client ID: TR7A-SSV-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:48
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/24/22 04:52
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	3.26	0.020	--	17.8	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.030	0.020	--	0.189	0.126	--		1
Trichloroethene	0.038	0.020	--	0.204	0.107	--		1
Toluene	0.686	0.100	--	2.59	0.377	--		1
Tetrachloroethene	0.077	0.020	--	0.522	0.136	--		1
Ethylbenzene	0.423	0.020	--	1.84	0.087	--		1
p/m-Xylene	1.34	0.040	--	5.82	0.174	--		1
o-Xylene	0.558	0.020	--	2.42	0.087	--		1
Xylenes, Total	1.90	0.020	--	8.25	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	110		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	117		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-14
 Client ID: TR7A-IA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:48
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 22:43
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.125	0.100	--	0.399	0.319	--		1
Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.163	0.100	--	0.614	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.032	0.020	--	0.139	0.087	--		1
p/m-Xylene	0.092	0.040	--	0.400	0.174	--		1
o-Xylene	0.042	0.020	--	0.182	0.087	--		1
Xylenes, Total	0.134	0.020	--	0.582	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	97		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-15
 Client ID: TR7A-SSV-2
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:30
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/24/22 05:33
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.083	0.020	--	0.329	0.079	--		1
1,1-Dichloroethane	0.551	0.020	--	2.23	0.081	--		1
cis-1,2-Dichloroethene	1.13	0.020	--	4.48	0.079	--		1
1,1,1-Trichloroethane	16.0	0.020	--	87.3	0.109	--		1
Benzene	0.104	0.100	--	0.332	0.319	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	9.44	0.020	--	50.7	0.107	--		1
Toluene	0.699	0.100	--	2.63	0.377	--		1
Tetrachloroethene	0.221	0.020	--	1.50	0.136	--		1
Ethylbenzene	0.288	0.020	--	1.25	0.087	--		1
p/m-Xylene	1.18	0.040	--	5.13	0.174	--		1
o-Xylene	0.503	0.020	--	2.18	0.087	--		1
Xylenes, Total	1.68	0.020	--	7.30	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	110		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	117		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-16

Date Collected: 12/19/22 17:00

Client ID: TR7A-IA-2

Date Received: 12/19/22

Sample Location: THOMPSON RD, SYRACUSE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/24/22 00:05

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.126	0.100	--	0.403	0.319	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.235	0.100	--	0.886	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.042	0.020	--	0.182	0.087	--		1
p/m-Xylene	0.132	0.040	--	0.573	0.174	--		1
o-Xylene	0.064	0.020	--	0.278	0.087	--		1
Xylenes, Total	0.196	0.020	--	0.851	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	100		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-17
 Client ID: TR7-OA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/19/22 16:55
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 17:57
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.122	0.100	--	0.390	0.319	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.115	0.100	--	0.433	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.020	0.020	--	0.087	0.087	--		1
p/m-Xylene	0.044	0.040	--	0.191	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Xylenes, Total	0.044	0.020	--	0.191	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-18
 Client ID: FD-SSV-121922-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected:
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 23:31
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.302	0.020	--	0.772	0.051	--		1
1,1-Dichloroethene	0.182	0.020	--	0.722	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.266	0.020	--	1.05	0.079	--		1
1,1-Dichloroethane	4.63	0.020	--	18.7	0.081	--		1
cis-1,2-Dichloroethene	13.3	0.020	--	52.7	0.079	--		1
1,1,1-Trichloroethane	1.11	0.020	--	6.06	0.109	--		1
Benzene	0.131	0.100	--	0.419	0.319	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	17.1	0.020	--	91.9	0.107	--		1
Toluene	0.963	0.100	--	3.63	0.377	--		1
Tetrachloroethene	0.295	0.020	--	2.00	0.136	--		1
Ethylbenzene	0.658	0.020	--	2.86	0.087	--		1
p/m-Xylene	2.46	0.040	--	10.7	0.174	--		1
o-Xylene	1.65	0.020	--	7.17	0.087	--		1
Xylenes, Total	4.11	0.020	--	17.9	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**SAMPLE RESULTS**

Lab ID: L2271721-19
 Client ID: FD-IA-121922-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected:
 Date Received: 12/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/23/22 22:08
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.036	0.020	--	0.146	0.081	--		1
cis-1,2-Dichloroethene	0.086	0.020	--	0.341	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.147	0.100	--	0.470	0.319	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	0.145	0.020	--	0.779	0.107	--		1
Toluene	0.201	0.100	--	0.757	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.302	0.020	--	1.31	0.087	--		1
p/m-Xylene	0.161	0.040	--	0.699	0.174	--		1
o-Xylene	0.071	0.020	--	0.308	0.087	--		1
Xylenes, Total	0.232	0.020	--	1.01	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/23/22 16:08

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 18-19 Batch: WG1727232-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/23/22 16:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-17 Batch: WG1727235-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Lab Control Sample Analysis Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049

Lab Number: L2271721

Report Date: 12/27/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 18-19 Batch: WG1727232-3								
Vinyl chloride	102		-		70-130	-		25
1,1-Dichloroethene	103		-		70-130	-		25
Methylene chloride	110		-		70-130	-		25
trans-1,2-Dichloroethene	96		-		70-130	-		25
1,1-Dichloroethane	102		-		70-130	-		25
cis-1,2-Dichloroethene	104		-		70-130	-		25
1,1,1-Trichloroethane	108		-		70-130	-		25
Benzene	100		-		70-130	-		25
Carbon tetrachloride	107		-		70-130	-		25
Trichloroethene	105		-		70-130	-		25
Toluene	103		-		70-130	-		25
Tetrachloroethene	105		-		70-130	-		25
Ethylbenzene	109		-		70-130	-		25
p/m-Xylene	110		-		70-130	-		25
o-Xylene	109		-		70-130	-		25

Lab Control Sample Analysis Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049

Lab Number: L2271721

Report Date: 12/27/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-17 Batch: WG1727235-3								
Vinyl chloride	79		-		70-130	-		25
1,1-Dichloroethene	91		-		70-130	-		25
Methylene chloride	94		-		70-130	-		25
trans-1,2-Dichloroethene	85		-		70-130	-		25
1,1-Dichloroethane	91		-		70-130	-		25
cis-1,2-Dichloroethene	90		-		70-130	-		25
1,1,1-Trichloroethane	98		-		70-130	-		25
Benzene	89		-		70-130	-		25
Carbon tetrachloride	98		-		70-130	-		25
Trichloroethene	94		-		70-130	-		25
Toluene	93		-		70-130	-		25
Tetrachloroethene	89		-		70-130	-		25
Ethylbenzene	101		-		70-130	-		25
p/m-Xylene	103		-		70-130	-		25
o-Xylene	104		-		70-130	-		25

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2271721

Report Date: 12/27/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-17 QC Batch ID: WG1727235-5 QC Sample: L2271721-14 Client ID: TR7A-IA-1						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.125	0.131	ppbV	5		25
Carbon tetrachloride	0.077	0.079	ppbV	3		25
Trichloroethene	ND	ND	ppbV	NC		25
Toluene	0.163	0.164	ppbV	1		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Ethylbenzene	0.032	0.033	ppbV	3		25
p/m-Xylene	0.092	0.094	ppbV	2		25
o-Xylene	0.042	0.042	ppbV	0		25
Xylenes, Total	0.134	0.136	ppbV	1		25

Project Name: CARRIER-THOMPSON RD.

Serial_No:12272216:18
Lab Number: L2271721

Project Number: 201049

Report Date: 12/27/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2271721-01	TR7-SSV-1	02154	Flow 5	12/12/22	405164		-	-	-	Pass	4.5	4.5	0
L2271721-01	TR7-SSV-1	3900	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.7	-5.3	-	-	-	-
L2271721-02	TR7-IA-1	01663	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.2	7
L2271721-02	TR7-IA-1	2312	2.7L Can	12/12/22	405164	L2266535-15	Pass	-30.1	-7.9	-	-	-	-
L2271721-03	TR7-SSV-2	01308	Flow 5	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2271721-03	TR7-SSV-2	467	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.9	-7.5	-	-	-	-
L2271721-04	TR7-IA-2	0724	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.6	2
L2271721-04	TR7-IA-2	2761	2.7L Can	12/12/22	405164	L2266535-19	Pass	-30.2	-7.2	-	-	-	-
L2271721-05	TR7-SSV-3	0433	Flow 5	12/12/22	405164		-	-	-	Pass	4.5	4.6	2
L2271721-05	TR7-SSV-3	540	2.7L Can	12/12/22	405164	L2268214-06	Pass	-30.0	-5.3	-	-	-	-
L2271721-06	TR7-IA-3	0084	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.5	0
L2271721-06	TR7-IA-3	2038	2.7L Can	12/12/22	405164	L2266535-16	Pass	-30.1	-5.2	-	-	-	-
L2271721-07	TR7-SSV-4	02180	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2271721-07	TR7-SSV-4	2227	2.7L Can	12/12/22	405164	L2267201-01	Pass	-29.4	-7.5	-	-	-	-
L2271721-08	TR7-IA-4	0162	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.5	0

Project Name: CARRIER-THOMPSON RD.

Serial_No:12272216:18
Lab Number: L2271721

Project Number: 201049

Report Date: 12/27/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2271721-08	TR7-IA-4	1066	2.7L Can	12/12/22	405164	L2266535-18	Pass	-30.2	-7.4	-	-	-	-
L2271721-09	TR7-SSV-5	0085	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	6.1	30
L2271721-09	TR7-SSV-5	2194	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.9	-5.2	-	-	-	-
L2271721-10	TR7-IA-5	0032	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2271721-10	TR7-IA-5	330	2.7L Can	12/12/22	405164	L2266535-44	Pass	-30.2	-5.3	-	-	-	-
L2271721-11	TR7-SSV-6	01079	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.6	2
L2271721-11	TR7-SSV-6	2858	2.7L Can	12/12/22	405164	L2267201-01	Pass	-29.8	-5.2	-	-	-	-
L2271721-12	TR7-IA-6	0622	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	5.6	22
L2271721-12	TR7-IA-6	2611	2.7L Can	12/12/22	405164	L2266535-22	Pass	-30.3	-7.2	-	-	-	-
L2271721-13	TR7A-SSV-1	0988	Flow 5	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2271721-13	TR7A-SSV-1	3246	2.7L Can	12/12/22	405164	L2268214-06	Pass	-30.0	-5.0	-	-	-	-
L2271721-14	TR7A-IA-1	01651	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.5	0
L2271721-14	TR7A-IA-1	455	2.7L Can	12/12/22	405164	L2266535-01	Pass	-30.3	-6.1	-	-	-	-
L2271721-15	TR7A-SSV-2	0059	Flow 5	12/12/22	405164		-	-	-	Pass	4.5	5.0	11
L2271721-15	TR7A-SSV-2	2738	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.4	-4.7	-	-	-	-

Project Name: CARRIER-THOMPSON RD.

Serial_No:12272216:18
Lab Number: L2271721

Project Number: 201049

Report Date: 12/27/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2271721-16	TR7A-IA-2	0963	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	5.1	13
L2271721-16	TR7A-IA-2	2822	2.7L Can	12/12/22	405164	L2266535-23	Pass	-30.2	-5.8	-	-	-	-
L2271721-17	TR7-OA-1	0766	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.8	6
L2271721-17	TR7-OA-1	394	2.7L Can	12/12/22	405164	L2266535-10	Pass	-30.1	-3.3	-	-	-	-
L2271721-18	FD-SSV-121922-1	01464	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2271721-18	FD-SSV-121922-1	535	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.7	-8.1	-	-	-	-
L2271721-19	FD-IA-121922-1	01097	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.4	2
L2271721-19	FD-IA-121922-1	2609	2.7L Can	12/12/22	405164	L2266535-07	Pass	-30.1	-8.5	-	-	-	-
L2271721-20	UNUSED #2879	01395	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	1.6	95
L2271721-20	UNUSED #2879	2879	2.7L Can	12/12/22	405164	L2266535-20	Pass	-30.2	-29.0	-	-	-	-

Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-01
Client ID: CAN 455 FC 0084
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 19:14
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	106		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-07
Client ID: CAN 2609 FC 01097
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 19:50
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-10
Client ID: CAN 394 FC 01294
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 20:27
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	91		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-15
Client ID: CAN 2312 FC 0622
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 04:26
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	114		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-16
Client ID: CAN 2038 FC 0162
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 22:18
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	105		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-18
Client ID: CAN 1066 FC 01651
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 22:54
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	94		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-19
Client ID: CAN 2761 FC 0963
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 06:54
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	124		60-140
chlorobenzene-d5	140		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-20
Client ID: CAN 2879 FC 01635
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 07:30
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	112		60-140
chlorobenzene-d5	127		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-22
Client ID: CAN 2611 FC 01663
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 20:43
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	83		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-23
Client ID: CAN 2822 FC 0766
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 21:20
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	81		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	79		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2266535-44
Client ID: CAN 330 FC 01395
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/04/22 04:05
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	67		60-140
bromochloromethane	68		60-140
chlorobenzene-d5	70		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267201
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267201-01
Client ID: CAN 363 SHELF 19
Sample Location:

Date Collected: 11/30/22 18:00
Date Received: 12/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/01/22 21:17
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267201
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267201-01
Client ID: CAN 363 SHELF 19
Sample Location:

Date Collected: 11/30/22 18:00
Date Received: 12/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267201
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267201-01
Client ID: CAN 363 SHELF 19
Sample Location:

Date Collected: 11/30/22 18:00
Date Received: 12/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267201
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267201-01
Client ID: CAN 363 SHELF 19
Sample Location:

Date Collected: 11/30/22 18:00
Date Received: 12/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2267201**Project Number:** CANISTER QC BAT**Report Date:** 12/27/22**Air Canister Certification Results**

Lab ID: L2267201-01

Date Collected: 11/30/22 18:00

Client ID: CAN 363 SHELF 19

Date Received: 12/01/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267201
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267201-01
Client ID: CAN 363 SHELF 19
Sample Location:

Date Collected: 11/30/22 18:00
Date Received: 12/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/01/22 21:17
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267201
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267201-01
Client ID: CAN 363 SHELF 19
Sample Location:

Date Collected: 11/30/22 18:00
Date Received: 12/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267201
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267201-01
Client ID: CAN 363 SHELF 19
Sample Location:

Date Collected: 11/30/22 18:00
Date Received: 12/01/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/05/22 23:40
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2267909**Project Number:** CANISTER QC BAT**Report Date:** 12/27/22**Air Canister Certification Results**

Lab ID: L2267909-06

Date Collected: 12/05/22 10:00

Client ID: CAN 3413 SHELF 13

Date Received: 12/05/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/05/22 23:40
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2267909**Project Number:** CANISTER QC BAT**Report Date:** 12/27/22**Air Canister Certification Results**

Lab ID: L2267909-06

Date Collected: 12/05/22 10:00

Client ID: CAN 3413 SHELF 13

Date Received: 12/05/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2268214**Project Number:** CANISTER QC BAT**Report Date:** 12/27/22**Air Canister Certification Results**

Lab ID: L2268214-06

Date Collected: 12/06/22 11:00

Client ID: CAN 178 SHELF 7

Date Received: 12/06/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/27/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2271721-01A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-02A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-03A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-04A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-05A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-06A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-07A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-08A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-09A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-10A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-11A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-12A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-13A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-14A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-15A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-16A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-17A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-18A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-19A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2271721-20A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		CLEAN-FEE()

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2271721**Project Number:** 201049**Report Date:** 12/27/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049

Lab Number: L2271721
Report Date: 12/27/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: CARRIER-THOMPSON RD.
Project Number: 201049

Lab Number: L2271721
Report Date: 12/27/22

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049

Lab Number: L2271721
Report Date: 12/27/22

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA AIR ANALYSIS CHAIN OF CUSTODY																	
		Page 1 of 2	Date Rec'd in Lab 12/20/22	ALPHA Job # L2271721													
Project Information			Report Information - Data Deliverables														
Westborough, MA TEL: 508-898-9000 FAX: 508-898-9088			FAX [] ADEx [] Criteria Checker: HA Edwards Format ASP-B Other Formats: EMAIL [] Add'l Deliverables [] Report to: (if different than Project Manager)														
H&A Client Carrier.			Billing Information X Same as Client Info PO #														
H&A Address: 200 Town Centre Dr Rochester, NY, 14623			Regulatory Requirements/Report Limits State/Fed Program Criteria														
H&A Phone: 913-893-1905	H&A Email: jkingston@halcyonidrich.com	Rush (only if pre-approved) [] Time:															
These samples have been previously analyzed by Alpha []			ANALYSIS														
Other Project Specific Requirements/ Comments/Detection Limits CC: jsauger@halcyonidrich.com																	
All Columns Below Must Be Filled Out																	
Alpha Lab ID (Lab Use Only)	Sample ID	End Date	Start Time	End Time	Initial Vac	Final Vac	Sample Matrix*	Sampler Initials	Can Size	Can ID	Flow Controller ID	TO-15 SIM	APEX	Fired Gases	Gulfcoils & Manicaps - TO-15	Sample Comments (e.g., PID)	
-01 TR7-SV-1	12/19	7:30	15:30	29.8	5.00	SV	R/M	2.7	3900	02154	X						
-02 TR7-TA-1	12/19	7:39	15:39	29.5	7.62	TA			23M	01663	X						
-03 TR7-SV-2		7:55	15:55	29.53	7.25	SV			467	01308	X						
-04 TR7-TA-2		7:56	15:56	29.83	7.01	TA			2761	0724	X						
-05 TR7-SV-3		8:28	16:01	29.81	5.00	SV			540	0433	X						
-06 TR7-TA-3		8:29	16:39	29.22	5.00	TA			203B	0084	X						
-07 TR7-SV-4		8:37	16:37	29.49	7.33	SV			3227	02180	X						
-08 TR7-TA-4		8:38	16:38	29.89	7.17	TA			1066	0162	X						
-09 TR7-SV-5		8:17	15:26	30.85	4.9	SV			2194	0085	X						
-10 TR7-TA-5		8:18	16:18	29.43	5.05	TA			330	0032	X						
* SAMPLE MATRIX CODES	AA = Ambient Air (Indoor/Outdoor) SV = Soil Vapor/Landfill Gas/VOC Other = Please Specify										Container Type	.	.	.	.	.	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Market Service Agreement# 2023-24 Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.
Relinquished By:		Date/Time		Received By:		Date/Time											
Joe Auger		12/19/22 17:34		Amy SS		12/16/22 17:55											
Amy SS		12/19/22 18:40		Tony Corp AM		12/14/22 18:42											
Tommy Ong		12/19/22 18:45		R. H. Da		12/20/22 05:20											
Franklin Ditchman		12/20/22 05:21		Michael B Ave		12/20/22 05:21											
K. Moeleke		12/20/22 06:50				12/20/22 06:50											



ANALYTICAL REPORT

Lab Number:	L2272321
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623
ATTN:	Jennifer Kingston
Phone:	(913) 693-1905
Project Name:	CARRIER-THOMPSON RD.
Project Number:	201049-004
Report Date:	12/30/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2272321

Report Date: 12/30/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2272321-01	TR5-SSV-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/21/22 15:29	12/22/22
L2272321-02	TR5-IA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/21/22 15:30	12/22/22
L2272321-03	TR5-SSV-2	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/21/22 15:47	12/22/22
L2272321-04	TR5-IA-2	AIR	THOMPSON RD, SYRACUSE, NY	12/21/22 15:48	12/22/22
L2272321-05	TR5-SSV-3	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/21/22 15:59	12/22/22
L2272321-06	TR5-IA-3	AIR	THOMPSON RD, SYRACUSE, NY	12/21/22 16:00	12/22/22
L2272321-07	TR5-SSV-4	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/21/22 16:18	12/22/22
L2272321-08	TR5-IA-4	AIR	THOMPSON RD, SYRACUSE, NY	12/21/22 16:19	12/22/22
L2272321-09	TR5-SSV-5	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/21/22 16:27	12/22/22
L2272321-10	TR5-IA-5	AIR	THOMPSON RD, SYRACUSE, NY	12/21/22 16:28	12/22/22
L2272321-11	FD-SSV-122122	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/21/22 00:00	12/22/22
L2272321-12	FD-IA-122122	AIR	THOMPSON RD, SYRACUSE, NY	12/21/22 00:00	12/22/22
L2272321-13	TR5-OA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/21/22 16:37	12/22/22

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272321
Report Date: 12/30/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272321
Report Date: 12/30/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 12, 2022. The canister certification results are provided as an addendum.

L2272321-07D2, -10D, and -11D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L2272321-07D and -10: The samples were re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2272321-11D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Sample Receipt

L2272321-03: The canister ID number for the sample is listed on the CoC as 2424 but should be 2420.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 12/30/22

AIR

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-01
 Client ID: TR5-SSV-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 15:29
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 06:48
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.031	0.020	--	0.123	0.079	--		1
1,1,1-Trichloroethane	31.0	0.020	--	169	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	1.51	0.020	--	9.50	0.126	--		1
Trichloroethene	5.36	0.020	--	28.8	0.107	--		1
Toluene	0.341	0.100	--	1.29	0.377	--		1
Tetrachloroethene	0.164	0.020	--	1.11	0.136	--		1
Ethylbenzene	0.190	0.020	--	0.825	0.087	--		1
p/m-Xylene	0.749	0.040	--	3.25	0.174	--		1
o-Xylene	0.306	0.020	--	1.33	0.087	--		1
Xylenes, Total	1.06	0.020	--	4.60	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	105		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS****Lab ID:** L2272321-02**Date Collected:** 12/21/22 15:30**Client ID:** TR5-IA-1**Date Received:** 12/22/22**Sample Location:** THOMPSON RD, SYRACUSE, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Air**Analytical Method:** 48,TO-15-SIM**Analytical Date:** 12/27/22 21:41**Analyst:** TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.206	0.100	--	0.658	0.319	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	0.045	0.020	--	0.242	0.107	--		1
Toluene	0.398	0.100	--	1.50	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.210	0.020	--	0.912	0.087	--		1
p/m-Xylene	0.760	0.040	--	3.30	0.174	--		1
o-Xylene	0.244	0.020	--	1.06	0.087	--		1
Xylenes, Total	1.00	0.020	--	4.34	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	104		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	105		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-03
 Client ID: TR5-SSV-2
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 15:47
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 07:27
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.032	0.020	--	0.127	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.021	0.020	--	0.083	0.079	--		1
1,1,1-Trichloroethane	0.576	0.020	--	3.14	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.086	0.020	--	0.541	0.126	--		1
Trichloroethene	10.4	0.020	--	55.9	0.107	--		1
Toluene	7.40	0.100	--	27.9	0.377	--		1
Tetrachloroethene	0.942	0.020	--	6.39	0.136	--		1
Ethylbenzene	13.4	0.020	--	58.2	0.087	--		1
p/m-Xylene	51.0	0.040	--	222	0.174	--		1
o-Xylene	25.2	0.020	--	109	0.087	--		1
Xylenes, Total	76.2	0.020	--	331	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	119		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS****Lab ID:** L2272321-04**Date Collected:** 12/21/22 15:48**Client ID:** TR5-IA-2**Date Received:** 12/22/22**Sample Location:** THOMPSON RD, SYRACUSE, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Air**Analytical Method:** 48,TO-15-SIM**Analytical Date:** 12/27/22 22:21**Analyst:** TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.043	0.020	--	0.170	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.514	0.100	--	1.64	0.319	--		1
Carbon tetrachloride	0.078	0.020	--	0.491	0.126	--		1
Trichloroethene	0.049	0.020	--	0.263	0.107	--		1
Toluene	1.55	0.100	--	5.84	0.377	--		1
Tetrachloroethene	0.050	0.020	--	0.339	0.136	--		1
Ethylbenzene	1.21	0.020	--	5.26	0.087	--		1
p/m-Xylene	4.70	0.040	--	20.4	0.174	--		1
o-Xylene	1.45	0.020	--	6.30	0.087	--		1
Xylenes, Total	6.15	0.020	--	26.7	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	102		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	102		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-05
 Client ID: TR5-SSV-3
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 15:59
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 08:06
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.027	0.020	--	0.107	0.079	--		1
1,1-Dichloroethane	0.041	0.020	--	0.166	0.081	--		1
cis-1,2-Dichloroethene	0.073	0.020	--	0.289	0.079	--		1
1,1,1-Trichloroethane	5.27	0.020	--	28.8	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.143	0.020	--	0.900	0.126	--		1
Trichloroethene	10.4	0.020	--	55.9	0.107	--		1
Toluene	1.36	0.100	--	5.13	0.377	--		1
Tetrachloroethene	0.149	0.020	--	1.01	0.136	--		1
Ethylbenzene	0.931	0.020	--	4.04	0.087	--		1
p/m-Xylene	3.81	0.040	--	16.5	0.174	--		1
o-Xylene	1.77	0.020	--	7.69	0.087	--		1
Xylenes, Total	5.58	0.020	--	24.2	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	100		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS****Lab ID:** L2272321-06**Date Collected:** 12/21/22 16:00**Client ID:** TR5-IA-3**Date Received:** 12/22/22**Sample Location:** THOMPSON RD, SYRACUSE, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Air**Analytical Method:** 48,TO-15-SIM**Analytical Date:** 12/27/22 22:59**Analyst:** TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.025	0.020	--	0.099	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.348	0.100	--	1.11	0.319	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	0.029	0.020	--	0.156	0.107	--		1
Toluene	0.970	0.100	--	3.66	0.377	--		1
Tetrachloroethene	0.033	0.020	--	0.224	0.136	--		1
Ethylbenzene	0.696	0.020	--	3.02	0.087	--		1
p/m-Xylene	2.61	0.040	--	11.3	0.174	--		1
o-Xylene	0.809	0.020	--	3.51	0.087	--		1
Xylenes, Total	3.42	0.020	--	14.9	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	104		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	105		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-07 D
 Client ID: TR5-SSV-4
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 16:18
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 03:59
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.063	--	ND	0.160	--		3.125
1,1-Dichloroethene	ND	0.063	--	ND	0.248	--		3.125
Methylene chloride	ND	1.56	--	ND	5.42	--		3.125
trans-1,2-Dichloroethene	9.32	0.063	--	37.0	0.248	--		3.125
1,1-Dichloroethane	0.566	0.063	--	2.29	0.253	--		3.125
cis-1,2-Dichloroethene	0.603	0.063	--	2.39	0.248	--		3.125
1,1,1-Trichloroethane	165	0.063	--	900	0.341	--	E	3.125
Benzene	0.606	0.312	--	1.94	0.997	--		3.125
Carbon tetrachloride	2.98	0.063	--	18.7	0.393	--		3.125
Trichloroethene	205	0.063	--	1100	0.336	--	E	3.125
Toluene	5.48	0.312	--	20.7	1.18	--		3.125
Tetrachloroethene	0.644	0.063	--	4.37	0.424	--		3.125
Ethylbenzene	47.7	0.063	--	207	0.271	--		3.125
p/m-Xylene	120	0.125	--	521	0.543	--		3.125
o-Xylene	141	0.063	--	612	0.271	--		3.125
Xylenes, Total	262	0.063	--	1140	0.271	--		3.125

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	102		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	104		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-07 D2

Client ID: TR5-SSV-4

Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 16:18

Date Received: 12/22/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/28/22 08:43

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	133	0.200	--	726	1.09	--		10
Trichloroethene	179	0.200	--	962	1.07	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	104		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS****Lab ID:** L2272321-08**Date Collected:** 12/21/22 16:19**Client ID:** TR5-IA-4**Date Received:** 12/22/22**Sample Location:** THOMPSON RD, SYRACUSE, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Air**Analytical Method:** 48,TO-15-SIM**Analytical Date:** 12/27/22 23:38**Analyst:** TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.475	0.020	--	1.88	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.020	0.020	--	0.109	0.109	--		1
Benzene	3.12	0.100	--	9.97	0.319	--		1
Carbon tetrachloride	0.087	0.020	--	0.547	0.126	--		1
Trichloroethene	0.144	0.020	--	0.774	0.107	--		1
Toluene	11.0	0.100	--	41.5	0.377	--		1
Tetrachloroethene	0.173	0.020	--	1.17	0.136	--		1
Ethylbenzene	9.15	0.020	--	39.7	0.087	--		1
p/m-Xylene	35.4	0.040	--	154	0.174	--		1
o-Xylene	11.2	0.020	--	48.6	0.087	--		1
Xylenes, Total	46.6	0.020	--	202	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	107		60-140
chlorobenzene-d5	106		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-09
 Client ID: TR5-SSV-5
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 16:27
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 09:22
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	1.17	0.500	--	4.06	1.74	--		1
trans-1,2-Dichloroethene	19.1	0.020	--	75.7	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	1.37	0.020	--	7.47	0.109	--		1
Benzene	0.184	0.100	--	0.588	0.319	--		1
Carbon tetrachloride	0.087	0.020	--	0.547	0.126	--		1
Trichloroethene	1.88	0.020	--	10.1	0.107	--		1
Toluene	1.15	0.100	--	4.33	0.377	--		1
Tetrachloroethene	7.14	0.020	--	48.4	0.136	--		1
Ethylbenzene	0.744	0.020	--	3.23	0.087	--		1
p/m-Xylene	3.04	0.040	--	13.2	0.174	--		1
o-Xylene	1.12	0.020	--	4.86	0.087	--		1
Xylenes, Total	4.16	0.020	--	18.1	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	112		60-140
chlorobenzene-d5	109		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS****Lab ID:** L2272321-10**Date Collected:** 12/21/22 16:28**Client ID:** TR5-IA-5**Date Received:** 12/22/22**Sample Location:** THOMPSON RD, SYRACUSE, NY**Field Prep:** Not Specified**Sample Depth:****Matrix:** Air**Analytical Method:** 48,TO-15-SIM**Analytical Date:** 12/28/22 00:56**Analyst:** TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	174	0.020	--	690	0.079	--	E	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.146	0.020	--	0.579	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.514	0.100	--	1.64	0.319	--		1
Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--		1
Trichloroethene	0.057	0.020	--	0.306	0.107	--		1
Toluene	2.33	0.100	--	8.78	0.377	--		1
Tetrachloroethene	0.039	0.020	--	0.264	0.136	--		1
Ethylbenzene	1.14	0.020	--	4.95	0.087	--		1
p/m-Xylene	4.44	0.040	--	19.3	0.174	--		1
o-Xylene	1.34	0.020	--	5.82	0.087	--		1
Xylenes, Total	5.78	0.020	--	25.1	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	106		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-10 D

Client ID: TR5-IA-5

Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 16:28

Date Received: 12/22/22

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/28/22 10:36

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,2-Dichloroethene	163	0.200	--	646	0.793	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-11 D
 Client ID: FD-SSV-122122
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 00:00
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 03:07
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.063	--	ND	0.160	--		3.125
1,1-Dichloroethene	ND	0.063	--	ND	0.248	--		3.125
Methylene chloride	2.72	1.56	--	9.45	5.42	--		3.125
trans-1,2-Dichloroethene	ND	0.063	--	ND	0.248	--		3.125
1,1-Dichloroethane	ND	0.063	--	ND	0.253	--		3.125
cis-1,2-Dichloroethene	ND	0.063	--	ND	0.248	--		3.125
1,1,1-Trichloroethane	0.941	0.063	--	5.13	0.341	--		3.125
Benzene	ND	0.312	--	ND	0.997	--		3.125
Carbon tetrachloride	0.084	0.063	--	0.531	0.393	--		3.125
Trichloroethene	17.9	0.063	--	96.2	0.336	--		3.125
Toluene	12.6	0.312	--	47.5	1.18	--		3.125
Tetrachloroethene	0.519	0.063	--	3.52	0.424	--		3.125
Ethylbenzene	21.5	0.063	--	93.4	0.271	--		3.125
p/m-Xylene	88.7	0.125	--	385	0.543	--		3.125
o-Xylene	41.2	0.063	--	179	0.271	--		3.125
Xylenes, Total	130	0.063	--	565	0.271	--		3.125

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	104		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-12
 Client ID: FD-IA-122122
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 00:00
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 21:52
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.053	0.020	--	0.210	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.554	0.100	--	1.77	0.319	--		1
Carbon tetrachloride	0.080	0.020	--	0.503	0.126	--		1
Trichloroethene	0.056	0.020	--	0.301	0.107	--		1
Toluene	1.74	0.100	--	6.56	0.377	--		1
Tetrachloroethene	0.049	0.020	--	0.332	0.136	--		1
Ethylbenzene	1.15	0.020	--	5.00	0.087	--		1
p/m-Xylene	4.37	0.040	--	19.0	0.174	--		1
o-Xylene	1.37	0.020	--	5.95	0.087	--		1
Xylenes, Total	5.74	0.020	--	24.9	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**SAMPLE RESULTS**

Lab ID: L2272321-13
 Client ID: TR5-OA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/21/22 16:37
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 18:34
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.184	0.100	--	0.588	0.319	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	0.032	0.020	--	0.172	0.107	--		1
Toluene	0.254	0.100	--	0.957	0.377	--		1
Tetrachloroethene	0.087	0.020	--	0.590	0.136	--		1
Ethylbenzene	0.042	0.020	--	0.182	0.087	--		1
p/m-Xylene	0.120	0.040	--	0.521	0.174	--		1
o-Xylene	0.049	0.020	--	0.213	0.087	--		1
Xylenes, Total	0.169	0.020	--	0.734	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/27/22 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 11-13 Batch: WG1727806-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/27/22 16:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-10 Batch: WG1727808-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2272321

Report Date: 12/30/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 11-13 Batch: WG1727806-3								
Vinyl chloride	114		-		70-130	-		25
1,1-Dichloroethene	114		-		70-130	-		25
Methylene chloride	126		-		70-130	-		25
trans-1,2-Dichloroethene	106		-		70-130	-		25
1,1-Dichloroethane	118		-		70-130	-		25
cis-1,2-Dichloroethene	119		-		70-130	-		25
1,1,1-Trichloroethane	118		-		70-130	-		25
Benzene	98		-		70-130	-		25
Carbon tetrachloride	106		-		70-130	-		25
Trichloroethene	115		-		70-130	-		25
Toluene	112		-		70-130	-		25
Tetrachloroethene	111		-		70-130	-		25
Ethylbenzene	118		-		70-130	-		25
p/m-Xylene	118		-		70-130	-		25
o-Xylene	119		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2272321

Report Date: 12/30/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG1727808-3								
Vinyl chloride	82		-		70-130	-		25
1,1-Dichloroethene	100		-		70-130	-		25
Methylene chloride	94		-		70-130	-		25
trans-1,2-Dichloroethene	95		-		70-130	-		25
1,1-Dichloroethane	100		-		70-130	-		25
cis-1,2-Dichloroethene	103		-		70-130	-		25
1,1,1-Trichloroethane	97		-		70-130	-		25
Benzene	86		-		70-130	-		25
Carbon tetrachloride	101		-		70-130	-		25
Trichloroethene	100		-		70-130	-		25
Toluene	92		-		70-130	-		25
Tetrachloroethene	106		-		70-130	-		25
Ethylbenzene	122		-		70-130	-		25
p/m-Xylene	124		-		70-130	-		25
o-Xylene	126		-		70-130	-		25

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2272321

Report Date: 12/30/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1727808-5 QC Sample: L2272321-08 Client ID: TR5-IA-4						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	0.475	0.471	ppbV	1		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.020	ND	ppbV	NC		25
Benzene	3.12	3.16	ppbV	1		25
Carbon tetrachloride	0.087	0.082	ppbV	6		25
Trichloroethene	0.144	0.145	ppbV	1		25
Toluene	11.0	11.0	ppbV	0		25
Tetrachloroethene	0.173	0.176	ppbV	2		25
Ethylbenzene	9.15	9.19	ppbV	0		25
p/m-Xylene	35.4	35.6	ppbV	1		25
o-Xylene	11.2	11.3	ppbV	1		25
Xylenes, Total	46.6	46.9	ppbV	1		25

Project Name: CARRIER-THOMPSON RD.

Serial_No:12302215:26
Lab Number: L2272321

Project Number: 201049-004

Report Date: 12/30/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2272321-01	TR5-SSV-1	01661	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.7	4
L2272321-01	TR5-SSV-1	237	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.5	-5.8	-	-	-	-
L2272321-02	TR5-IA-1	0811	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.8	6
L2272321-02	TR5-IA-1	3884	2.7L Can	12/12/22	405164	L2266535-37	Pass	-30.1	-2.7	-	-	-	-
L2272321-03	TR5-SSV-2	0411	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	2.7	50
L2272321-03	TR5-SSV-2	2420	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.7	-5.1	-	-	-	-
L2272321-04	TR5-IA-2	01476	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.8	6
L2272321-04	TR5-IA-2	2279	2.7L Can	12/12/22	405164	L2266535-36	Pass	-30.2	-6.7	-	-	-	-
L2272321-05	TR5-SSV-3	02056	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.0	12
L2272321-05	TR5-SSV-3	3201	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.6	-5.6	-	-	-	-
L2272321-06	TR5-IA-3	01728	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.2	7
L2272321-06	TR5-IA-3	2737	2.7L Can	12/12/22	405164	L2266535-40	Pass	-30.1	-4.3	-	-	-	-
L2272321-07	TR5-SSV-4	01697	Flow 3	12/12/22	405164		-	-	-	Pass	4.5	4.2	7
L2272321-07	TR5-SSV-4	2205	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.6	-5.9	-	-	-	-
L2272321-08	TR5-IA-4	0905	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.8	6

Project Name: CARRIER-THOMPSON RD.

Serial_No:12302215:26
Lab Number: L2272321

Project Number: 201049-004

Report Date: 12/30/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2272321-08	TR5-IA-4	489	2.7L Can	12/12/22	405164	L2266535-29	Pass	-30.2	-4.8	-	-	-	-
L2272321-09	TR5-SSV-5	01655	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.1	9
L2272321-09	TR5-SSV-5	208	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.6	-5.0	-	-	-	-
L2272321-10	TR5-IA-5	02067	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.4	2
L2272321-10	TR5-IA-5	3743	2.7L Can	12/12/22	405164	L2266535-38	Pass	-30.1	-3.7	-	-	-	-
L2272321-11	FD-SSV-122122	01295	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.4	2
L2272321-11	FD-SSV-122122	2374	2.7L Can	12/12/22	405164	L2268214-06	Pass	-29.8	-4.6	-	-	-	-
L2272321-12	FD-IA-122122	01786	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.4	2
L2272321-12	FD-IA-122122	3744	2.7L Can	12/12/22	405164	L2266535-39	Pass	-30.1	-5.5	-	-	-	-
L2272321-13	TR5-OA-1	0126	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	3.9	14
L2272321-13	TR5-OA-1	418	2.7L Can	12/12/22	405164	L2266535-42	Pass	-30.2	-3.7	-	-	-	-

Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2266535-29
Client ID: CAN 489 FC 01728
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 01:59
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	101		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2266535-36
Client ID: CAN 2279 FC 02067
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 23:47
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	78		60-140
bromochloromethane	78		60-140
chlorobenzene-d5	78		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2266535-37
Client ID: CAN 3884 FC 0905
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/04/22 00:24
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	87		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2266535-38
Client ID: CAN 3743 FC 0811
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/04/22 01:01
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	75		60-140
bromochloromethane	75		60-140
chlorobenzene-d5	75		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2266535-39
Client ID: CAN 3744 FC 01786
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/03/22 19:29
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	91		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2266535-40
Client ID: CAN 2737 FC 01476
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/04/22 01:38
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	75		60-140
bromochloromethane	75		60-140
chlorobenzene-d5	76		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2266535-42
Client ID: CAN 418 FC 01184
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/04/22 02:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	112		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/05/22 23:40
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2267909**Project Number:** CANISTER QC BAT**Report Date:** 12/30/22**Air Canister Certification Results**

Lab ID: L2267909-06

Date Collected: 12/05/22 10:00

Client ID: CAN 3413 SHELF 13

Date Received: 12/05/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/05/22 23:40
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2267909**Project Number:** CANISTER QC BAT**Report Date:** 12/30/22**Air Canister Certification Results**

Lab ID: L2267909-06

Date Collected: 12/05/22 10:00

Client ID: CAN 3413 SHELF 13

Date Received: 12/05/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2268214**Project Number:** CANISTER QC BAT**Report Date:** 12/30/22**Air Canister Certification Results**

Lab ID: L2268214-06

Date Collected: 12/06/22 11:00

Client ID: CAN 178 SHELF 7

Date Received: 12/06/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 12/30/22

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2268214**Project Number:** CANISTER QC BAT**Report Date:** 12/30/22**Air Canister Certification Results**

Lab ID: L2268214-06

Date Collected: 12/06/22 11:00

Client ID: CAN 178 SHELF 7

Date Received: 12/06/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2272321-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-09A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-10A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-11A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-12A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272321-13A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272321**Project Number:** 201049-004**Report Date:** 12/30/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272321
Report Date: 12/30/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272321
Report Date: 12/30/22

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272321
Report Date: 12/30/22

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 AIR ANALYSIS CHAIN OF CUSTODY		Page 1 of 2	Date Rec'd in Lab 12/23/22	ALPHA Job # 22272321															
Project Information Project Name: Carrier-Thompson Rd. Project Location: Thompson Rd, Syracuse, NY Project # 201048-004 (Use Project name as Project #) ☐ Project Manager: Melissa Deyo ALPHA Quote #: Chats Analytical Turn Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ Time:		Report Information - Data Deliverables ☐ FAX ☐ ADEX Criteria Checker: WA EAVIS FORMULAT ASP-B ☐ EMAIL ☐ Add'l Deliverables Report to: (if different than Project Manager)		Billing Information ☐ Same as Client Info PO # Regulatory Requirements/Report Limits <table border="1"> <thead> <tr> <th>State/Fed</th> <th>Program</th> <th>Criteria</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	State/Fed	Program	Criteria												
State/Fed	Program	Criteria																	
Westborough, MA TEL: 508-898-8220 Mansfield, MA TEL: 508-822-8000 FAX: 508-822-3298 FAX: 508-822-3298 H&A Information H&A Client: Carrier H&A Address: 200 Town Centre Dr. Rochester, NY, 14623 H&A Phone: 913-693-1905 H&A Fax: H&A Email: J.kingston@haleyaldrich.com		These samples have been previously analyzed by Alpha ☐ Other Project Specific Requirements/ Comments/Detection Limits W: J.sanger@haleyaldrich.com																	
ANALYSIS																			
All Columns Below Must Be Filled Out																			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Initial Vac	Final Vac	Sample Matrix*	Sampler Initials	Can Size	Can ID	Flow Controller ID	TO-15	TO-15 SEM	APH	Fixed Gases	Sulfides & Mercaptans - TO-15	Sample Comments (i.e. PID)			
72321-01	TR50-SSV-1	12/21/22	12/21/22	1629	30.30	7.17 SV	KM	2.7	837	1661	X								
02	TR50-IA-1	12/21/22	12/21/22	730	32.88	29.88 TA			3884	811		X							
03	TR50-SSV-2			747	29.71	6.68 SV			2424	8411	X								
04	TR50-IA-2			748	30.13	8.20 TA			3281	0206		X							
05	TR50-SSV-3			759	30.03	7.55 SV			3201	2737	07728	X							
06	TR50-IA-3			800	29.84	5.65 TA			2737	1728		X							
07	TR50-SSV-4			818	30.02	7.30 SV			2205	8167	X								
08	TR50-IA-4			819	30.18	6.25 TA			489	0905		X							
09	TR50-SSV-5			827	30.20	6.20 SV			208	01685	X								
10	TR50-IA-5			828	30.13	5.00 TA			3743	02067	X								
* SAMPLE MATRIX CODES AA = Ambient Air (Indoor/Outdoor) SV = Soil Vapor/Landfill Gas/SVE Other = Please Specify																			
Relinquished By: [Signature] Date/Time: 12/22/22 1708 Received By: [Signature] Date/Time: 12/22/22 1708 [Signature] Date/Time: 12/23/22 1708 [Signature] Date/Time: 12/23/22 1708 [Signature] Date/Time: 12/23/22 0630																			
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Standard Service Agreement# 2022-24 Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.																			

Page 2
of 2

ALPHA Job # L2272321

Page 58 of 58



ANALYTICAL REPORT

Lab Number:	L2272323
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623
ATTN:	Jennifer Kingston
Phone:	(913) 693-1905
Project Name:	CARRIER-THOMPSON RD.
Project Number:	201049-004
Report Date:	01/05/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2272323

Report Date: 01/05/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2272323-01	TR19-SSV-7	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/22/22 15:50	12/22/22
L2272323-02	TR19-IA-7	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 15:51	12/22/22
L2272323-03	TR19-SSV-4	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/22/22 15:00	12/22/22
L2272323-04	TR19-IA-4	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 11:11	12/22/22
L2272323-05	TR19-SSV-5	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:12	12/22/22
L2272323-06	TR19-IA-5	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 11:13	12/22/22
L2272323-07	TR5A-SSV-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:30	12/22/22
L2272323-08	TR5A-IA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:31	12/22/22
L2272323-09	TR5A-SSV-2	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:39	12/22/22
L2272323-10	TR5A-IA-2	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:40	12/22/22
L2272323-11	FD-SSV-122222-1	SOIL_VAPOR	THOMPSON RD, SYRACUSE, NY	12/22/22 00:00	12/22/22
L2272323-12	FD-IA-122222-1	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 00:00	12/22/22
L2272323-13	TR5A-OA-1	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:47	12/22/22
L2272323-14	TR19-IA-4-A	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:01	12/22/22
L2272323-15	TR19-IA-5-A	AIR	THOMPSON RD, SYRACUSE, NY	12/22/22 16:12	12/22/22

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272323
Report Date: 01/05/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272323
Report Date: 01/05/23

Case Narrative (continued)

Report Submission

January 05, 2023: This final report includes the results of all requested analyses.

Report Submission

December 30, 2022: This is a preliminary report. A final report will be issued as soon as the associated air samples which are currently on hold are either released for analysis or disposal.

Volatile Organics in Air

Canisters were released from the laboratory on December 12, 2022. The canister certification results are provided as an addendum.

L2272323-01D,09D2: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2272323-01 and -09D: The samples were re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2272323-11D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 01/05/23

AIR

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-01
 Client ID: TR19-SSV-7
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 15:50
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 23:55
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.037	0.020	--	0.095	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.035	0.020	--	0.139	0.079	--		1
1,1-Dichloroethane	0.328	0.020	--	1.33	0.081	--		1
cis-1,2-Dichloroethene	1.54	0.020	--	6.11	0.079	--		1
1,1,1-Trichloroethane	2.82	0.020	--	15.4	0.109	--		1
Benzene	2.39	0.100	--	7.64	0.319	--		1
Carbon tetrachloride	0.023	0.020	--	0.145	0.126	--		1
Trichloroethene	64.1	0.020	--	344	0.107	--	E	1
Toluene	4.94	0.100	--	18.6	0.377	--		1
Tetrachloroethene	8.12	0.020	--	55.1	0.136	--		1
Ethylbenzene	0.500	0.020	--	2.17	0.087	--		1
p/m-Xylene	2.38	0.040	--	10.3	0.174	--		1
o-Xylene	0.736	0.020	--	3.20	0.087	--		1
Xylenes, Total	3.11	0.020	--	13.5	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	94		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-01 D

Client ID: TR19-SSV-7

Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 15:50

Date Received: 12/22/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/28/22 07:48

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Trichloroethene	62.0	0.050	--	333	0.269	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-02
 Client ID: TR19-IA-7
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 15:51
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 19:14
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.212	0.100	--	0.677	0.319	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.405	0.100	--	1.53	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.122	0.020	--	0.530	0.087	--		1
p/m-Xylene	0.416	0.040	--	1.81	0.174	--		1
o-Xylene	0.172	0.020	--	0.747	0.087	--		1
Xylenes, Total	0.588	0.020	--	2.55	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-03
 Client ID: TR19-SSV-4
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 15:00
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 00:34
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	1.65	0.020	--	4.22	0.051	--		1
1,1-Dichloroethene	0.074	0.020	--	0.293	0.079	--		1
Methylene chloride	2.32	0.500	--	8.06	1.74	--		1
trans-1,2-Dichloroethene	8.73	0.020	--	34.6	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	48.8	0.020	--	193	0.079	--		1
1,1,1-Trichloroethane	0.063	0.020	--	0.344	0.109	--		1
Benzene	0.204	0.100	--	0.652	0.319	--		1
Carbon tetrachloride	0.035	0.020	--	0.220	0.126	--		1
Trichloroethene	20.7	0.020	--	111	0.107	--		1
Toluene	0.565	0.100	--	2.13	0.377	--		1
Tetrachloroethene	2.46	0.020	--	16.7	0.136	--		1
Ethylbenzene	0.258	0.020	--	1.12	0.087	--		1
p/m-Xylene	1.18	0.040	--	5.13	0.174	--		1
o-Xylene	0.618	0.020	--	2.68	0.087	--		1
Xylenes, Total	1.80	0.020	--	7.82	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-05
 Client ID: TR19-SSV-5
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:12
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 01:14
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.020	0.020	--	0.079	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.042	0.020	--	0.167	0.079	--		1
1,1,1-Trichloroethane	0.048	0.020	--	0.262	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	0.106	0.020	--	0.570	0.107	--		1
Toluene	0.983	0.100	--	3.70	0.377	--		1
Tetrachloroethene	0.090	0.020	--	0.610	0.136	--		1
Ethylbenzene	7.63	0.020	--	33.1	0.087	--		1
p/m-Xylene	44.0	0.040	--	191	0.174	--		1
o-Xylene	16.7	0.020	--	72.5	0.087	--		1
Xylenes, Total	60.8	0.020	--	264	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-07
 Client ID: TR5A-SSV-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:30
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 01:54
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.083	0.020	--	0.453	0.109	--		1
Benzene	0.208	0.100	--	0.664	0.319	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	0.205	0.020	--	1.10	0.107	--		1
Toluene	3.22	0.100	--	12.1	0.377	--		1
Tetrachloroethene	0.218	0.020	--	1.48	0.136	--		1
Ethylbenzene	6.93	0.020	--	30.1	0.087	--		1
p/m-Xylene	21.7	0.040	--	94.3	0.174	--		1
o-Xylene	4.94	0.020	--	21.5	0.087	--		1
Xylenes, Total	26.6	0.020	--	116	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-08
 Client ID: TR5A-IA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:31
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 19:53
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.022	0.020	--	0.087	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.078	0.020	--	0.491	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.331	0.100	--	1.25	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	1.92	0.020	--	8.34	0.087	--		1
p/m-Xylene	8.23	0.040	--	35.7	0.174	--		1
o-Xylene	2.80	0.020	--	12.2	0.087	--		1
Xylenes, Total	11.0	0.020	--	47.8	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-09 D
 Client ID: TR5A-SSV-2
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:39
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 02:30
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.046	--	ND	0.116	--		2.273
1,1-Dichloroethene	ND	0.046	--	ND	0.180	--		2.273
Methylene chloride	3.22	1.14	--	11.2	3.96	--		2.273
trans-1,2-Dichloroethene	ND	0.046	--	ND	0.180	--		2.273
1,1-Dichloroethane	0.046	0.046	--	0.184	0.184	--		2.273
cis-1,2-Dichloroethene	ND	0.046	--	ND	0.180	--		2.273
1,1,1-Trichloroethane	0.120	0.046	--	0.655	0.248	--		2.273
Benzene	1.96	0.227	--	6.26	0.725	--		2.273
Carbon tetrachloride	0.059	0.046	--	0.372	0.286	--		2.273
Trichloroethene	0.973	0.046	--	5.23	0.245	--		2.273
Toluene	14.6	0.227	--	55.0	0.855	--		2.273
Tetrachloroethene	0.293	0.046	--	1.99	0.309	--		2.273
Ethylbenzene	166	0.046	--	721	0.198	--	E	2.273
p/m-Xylene	449	0.091	--	1950	0.395	--	E	2.273
o-Xylene	87.4	0.046	--	380	0.198	--		2.273
Xylenes, Total	536	0.046	--	2330	0.198	--		2.273

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-09 D2

Client ID: TR5A-SSV-2

Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:39

Date Received: 12/22/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/28/22 08:25

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Ethylbenzene	142	0.200	--	617	0.869	--		10
p/m-Xylene	388	0.400	--	1690	1.74	--		10
Xylenes, Total	388	0.200	--	1690	0.869	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	90		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-10
 Client ID: TR5A-IA-2
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:40
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 21:12
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.023	0.020	--	0.091	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.284	0.100	--	1.07	0.377	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
Ethylbenzene	1.72	0.020	--	7.47	0.087	--		1
p/m-Xylene	7.42	0.040	--	32.2	0.174	--		1
o-Xylene	2.56	0.020	--	11.1	0.087	--		1
Xylenes, Total	9.98	0.020	--	43.3	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	97		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-11 D
 Client ID: FD-SSV-122222-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 00:00
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 09:59
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	1.28	0.029	--	3.27	0.073	--		1.429
1,1-Dichloroethene	0.070	0.029	--	0.278	0.113	--		1.429
Methylene chloride	ND	0.714	--	ND	2.48	--		1.429
trans-1,2-Dichloroethene	8.32	0.029	--	33.0	0.113	--		1.429
1,1-Dichloroethane	ND	0.029	--	ND	0.116	--		1.429
cis-1,2-Dichloroethene	47.0	0.029	--	186	0.113	--		1.429
1,1,1-Trichloroethane	0.067	0.029	--	0.366	0.156	--		1.429
Benzene	0.268	0.143	--	0.856	0.457	--		1.429
Carbon tetrachloride	0.037	0.029	--	0.233	0.180	--		1.429
Trichloroethene	20.6	0.029	--	111	0.154	--		1.429
Toluene	0.792	0.143	--	2.98	0.539	--		1.429
Tetrachloroethene	2.82	0.029	--	19.1	0.194	--		1.429
Ethylbenzene	0.380	0.029	--	1.65	0.124	--		1.429
p/m-Xylene	1.58	0.057	--	6.86	0.248	--		1.429
o-Xylene	0.822	0.029	--	3.57	0.124	--		1.429
Xylenes, Total	2.40	0.029	--	10.4	0.124	--		1.429

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	111		60-140
chlorobenzene-d5	108		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-12
 Client ID: FD-IA-122222-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 00:00
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/28/22 01:35
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.146	0.020	--	0.579	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.318	0.100	--	1.02	0.319	--		1
Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.592	0.100	--	2.23	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.274	0.020	--	1.19	0.087	--		1
p/m-Xylene	0.947	0.040	--	4.11	0.174	--		1
o-Xylene	0.422	0.020	--	1.83	0.087	--		1
Xylenes, Total	1.37	0.020	--	5.95	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	103		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-13
 Client ID: TR5A-OA-1
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:47
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 21:03
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.138	0.100	--	0.441	0.319	--		1
Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.139	0.100	--	0.524	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.029	0.020	--	0.126	0.087	--		1
p/m-Xylene	0.074	0.040	--	0.321	0.174	--		1
o-Xylene	0.028	0.020	--	0.122	0.087	--		1
Xylenes, Total	0.102	0.020	--	0.443	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	105		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-14
 Client ID: TR19-IA-4-A
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:01
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 22:35
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.042	0.020	--	0.167	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.341	0.100	--	1.09	0.319	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.685	0.100	--	2.58	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.289	0.020	--	1.26	0.087	--		1
p/m-Xylene	1.06	0.040	--	4.60	0.174	--		1
o-Xylene	0.457	0.020	--	1.99	0.087	--		1
Xylenes, Total	1.52	0.020	--	6.60	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	91		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**SAMPLE RESULTS**

Lab ID: L2272323-15
 Client ID: TR19-IA-5-A
 Sample Location: THOMPSON RD, SYRACUSE, NY

Date Collected: 12/22/22 16:12
 Date Received: 12/22/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/27/22 23:15
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	1.14	0.500	--	3.96	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.264	0.100	--	0.843	0.319	--		1
Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.467	0.100	--	1.76	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.251	0.020	--	1.09	0.087	--		1
p/m-Xylene	0.943	0.040	--	4.10	0.174	--		1
o-Xylene	0.366	0.020	--	1.59	0.087	--		1
Xylenes, Total	1.31	0.020	--	5.69	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/27/22 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03,05,07-10,14-15 Batch: WG1727806-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/27/22 16:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 11-13 Batch: WG1727808-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Lab Control Sample Analysis Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2272323

Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03,05,07-10,14-15 Batch: WG1727806-3								
Vinyl chloride	114		-		70-130	-		25
1,1-Dichloroethene	114		-		70-130	-		25
Methylene chloride	126		-		70-130	-		25
trans-1,2-Dichloroethene	106		-		70-130	-		25
1,1-Dichloroethane	118		-		70-130	-		25
cis-1,2-Dichloroethene	119		-		70-130	-		25
1,1,1-Trichloroethane	118		-		70-130	-		25
Benzene	98		-		70-130	-		25
Carbon tetrachloride	106		-		70-130	-		25
Trichloroethene	115		-		70-130	-		25
Toluene	112		-		70-130	-		25
Tetrachloroethene	111		-		70-130	-		25
Ethylbenzene	118		-		70-130	-		25
p/m-Xylene	118		-		70-130	-		25
o-Xylene	119		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2272323

Report Date: 01/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 11-13 Batch: WG1727808-3								
Vinyl chloride	82		-		70-130	-		25
1,1-Dichloroethene	100		-		70-130	-		25
Methylene chloride	94		-		70-130	-		25
trans-1,2-Dichloroethene	95		-		70-130	-		25
1,1-Dichloroethane	100		-		70-130	-		25
cis-1,2-Dichloroethene	103		-		70-130	-		25
1,1,1-Trichloroethane	97		-		70-130	-		25
Benzene	86		-		70-130	-		25
Carbon tetrachloride	101		-		70-130	-		25
Trichloroethene	100		-		70-130	-		25
Toluene	92		-		70-130	-		25
Tetrachloroethene	106		-		70-130	-		25
Ethylbenzene	122		-		70-130	-		25
p/m-Xylene	124		-		70-130	-		25
o-Xylene	126		-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: CARRIER-THOMPSON RD.

Project Number: 201049-004

Lab Number: L2272323

Report Date: 01/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03,05,07-10,14-15 QC Batch ID: WG1727806-5 QC Sample: L2272323-08 Client ID: TR5A-IA-1						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	0.022	0.021	ppbV	5		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.078	0.073	ppbV	7		25
Trichloroethene	ND	ND	ppbV	NC		25
Toluene	0.331	0.335	ppbV	1		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Ethylbenzene	1.92	1.96	ppbV	2		25
p/m-Xylene	8.23	8.33	ppbV	1		25
o-Xylene	2.80	2.83	ppbV	1		25
Xylenes, Total	11.0	11.2	ppbV	2		25

Project Name: CARRIER-THOMPSON RD.

Serial_No:01052308:42
Lab Number: L2272323

Project Number: 201049-004

Report Date: 01/05/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2272323-01	TR19-SSV-7	01561	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.8	6
L2272323-01	TR19-SSV-7	548	2.7L Can	12/12/22	405164	L2268214-06	Pass	-30.0	-6.3	-	-	-	-
L2272323-02	TR19-IA-7	01184	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.5	0
L2272323-02	TR19-IA-7	3411	2.7L Can	12/12/22	405164	L2266535-09	Pass	-29.9	-5.7	-	-	-	-
L2272323-03	TR19-SSV-4	0229	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.1	9
L2272323-03	TR19-SSV-4	2187	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.6	-10.1	-	-	-	-
L2272323-04	TR19-IA-4	01940	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	13.4	99
L2272323-04	TR19-IA-4	346	2.7L Can	12/12/22	405164	L2266535-12	Pass	-30.1	-3.8	-	-	-	-
L2272323-05	TR19-SSV-5	0779	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.5	0
L2272323-05	TR19-SSV-5	405	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.4	-4.7	-	-	-	-
L2272323-06	TR19-IA-5	01582	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	12.8	96
L2272323-06	TR19-IA-5	2432	2.7L Can	12/12/22	405164	L2266535-13	Pass	-29.8	-4.5	-	-	-	-
L2272323-07	TR5A-SSV-1	01657	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.6	2
L2272323-07	TR5A-SSV-1	2613	2.7L Can	12/12/22	405164	L2268214-06	Pass	-30.0	-3.9	-	-	-	-
L2272323-08	TR5A-IA-1	01664	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	5.1	13

Project Name: CARRIER-THOMPSON RD.

Serial_No:01052308:42
Lab Number: L2272323

Project Number: 201049-004

Report Date: 01/05/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2272323-08	TR5A-IA-1	544	2.7L Can	12/12/22	405164	L2266535-04	Pass	-30.1	-2.8	-	-	-	-
L2272323-09	TR5A-SSV-2	01062	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.4	2
L2272323-09	TR5A-SSV-2	2339	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.5	-3.9	-	-	-	-
L2272323-10	TR5A-IA-2	01627	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.9	9
L2272323-10	TR5A-IA-2	244	2.7L Can	12/12/22	405164	L2266535-11	Pass	-30.0	-2.8	-	-	-	-
L2272323-11	FD-SSV-122222-1	01297	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	3.9	14
L2272323-11	FD-SSV-122222-1	174	2.7L Can	12/12/22	405164	L2267909-06	Pass	-29.6	-3.1	-	-	-	-
L2272323-12	FD-IA-122222-1	01431	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.8	6
L2272323-12	FD-IA-122222-1	3022	2.7L Can	12/12/22	405164	L2266535-08	Pass	-30.4	-6.7	-	-	-	-
L2272323-13	TR5A-OA-1	02250	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.0	12
L2272323-13	TR5A-OA-1	1745	2.7L Can	12/12/22	405164	L2266535-03	Pass	-30.1	-4.9	-	-	-	-
L2272323-14	TR19-IA-4-A	02184	FLOW 4	12/12/22	405164		-	-	-	Pass	4.5	4.3	5
L2272323-14	TR19-IA-4-A	379	2.7L Can	12/12/22	405164	L2266535-06	Pass	-30.0	-9.8	-	-	-	-
L2272323-15	TR19-IA-5-A	02231	Flow 4	12/12/22	405164		-	-	-	Pass	4.5	4.0	12
L2272323-15	TR19-IA-5-A	2191	2.7L Can	12/12/22	405164	L2266535-14	Pass	-30.0	-9.7	-	-	-	-

Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-03
Client ID: CAN 1745 FC 01940
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/01/22 21:04
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	106		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	108		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-04
Client ID: CAN 544 FC 01512
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/01/22 21:40
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	102		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-06
Client ID: CAN 379 FC 01664
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/01/22 22:54
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	98		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-08
Client ID: CAN 3022 FC 02250
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 00:07
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	98		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-09
Client ID: CAN 3411 FC 02184
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 00:44
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	109		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-11
Client ID: CAN 244 FC 0126
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 01:58
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	111		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-12
Client ID: CAN 346 FC 0168
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 02:35
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	113		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-13
Client ID: CAN 2432 FC 02231
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 21:04
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	95		60-140



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2266535
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2266535-14
Client ID: CAN 2191 FC 01431
Sample Location:

Date Collected: 11/28/22 18:00
Date Received: 11/29/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/02/22 21:41
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	104		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/05/22 23:40
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2267909**Project Number:** CANISTER QC BAT**Report Date:** 01/05/23**Air Canister Certification Results**

Lab ID: L2267909-06

Date Collected: 12/05/22 10:00

Client ID: CAN 3413 SHELF 13

Date Received: 12/05/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/05/22 23:40
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2267909
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2267909-06
Client ID: CAN 3413 SHELF 13
Sample Location:

Date Collected: 12/05/22 10:00
Date Received: 12/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2268214**Project Number:** CANISTER QC BAT**Report Date:** 01/05/23**Air Canister Certification Results**

Lab ID: L2268214-06

Date Collected: 12/06/22 11:00

Client ID: CAN 178 SHELF 7

Date Received: 12/06/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/07/22 00:51
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2268214
Report Date: 01/05/23

Air Canister Certification Results

Lab ID: L2268214-06
Client ID: CAN 178 SHELF 7
Sample Location:

Date Collected: 12/06/22 11:00
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2268214**Project Number:** CANISTER QC BAT**Report Date:** 01/05/23**Air Canister Certification Results**

Lab ID: L2268214-06

Date Collected: 12/06/22 11:00

Client ID: CAN 178 SHELF 7

Date Received: 12/06/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140



Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2272323-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		CANCELLED()
L2272323-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		CANCELLED()
L2272323-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-09A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-10A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-11A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-12A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-13A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2272323-14A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)
L2272323-15A	Canister - 2.7 Liter	NA	NA			Y	Present/Intact		TO15-SIM(30)

Project Name: CARRIER-THOMPSON RD.**Lab Number:** L2272323**Project Number:** 201049-004**Report Date:** 01/05/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272323
Report Date: 01/05/23

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272323
Report Date: 01/05/23

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CARRIER-THOMPSON RD.
Project Number: 201049-004

Lab Number: L2272323
Report Date: 01/05/23

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

[illegible]

AIR ANALYSIS CHAIN OF CUSTODY		Page 8 of 2	Date Rec'd in Lab 12/23/22	ALPHA Job # L2272323													
Westborough, MA TEL: 508-898-8220 FAX: 508-822-3288		Mansfield, MA TEL: 508-822-8300 FAX: 508-822-3288															
HSA Information		Project Information		Report Information - Data Deliverables													
HSA Client: Carrier.		Project Name: Carrier-Thompson Rd.		☐ FAX ☐ ACEX Criteria Checker: HA Equus Format ASP-B ☐ EMAIL ☐ Add'l Deliverables Report to: (if different than Project Manager)													
HSA Address: 200 Town Centre Dr. Rochester, NY, 14623		Project Location: Thompson Rd, Syracuse, NY															
HSA Phone: 913-693-1905		Project #: 201049															
HSA Fax:		(Use Project name as Project #) ☐															
HSA Email: jkingston@halseyaldrich.com		Project Manager: Melissa Deyo															
		ALPHA Quote #:															
		Turn-Around Time:															
		Standard ☒ Due Date:															
		Rush (only if pre-approved) ☐ Time:															
These samples have been previously analyzed by Alpha ☐																	
Other Project Specific Requirements/ Comments/Detection Limits <i>(C: jsinger@halseyaldrich.com)</i>																	
ANALYSIS																	
All Columns Below Must Be Filled Out																	
ALPHA Lab ID (Lab Use Only)	Sample ID	End Date	Start Time	End Time	Initial Vac	Final Vac	Sample Matrix*	Sampler Initials	Can Size	Can ID	Flow Controller ID	TO-15	TO-15 SAM	APH	Flood Cases	Sulfides & Mercaptans - TO-15	Sample Comments (i.e. PID)
11	FD-12222-1	12/22	-	-	30.0	2.75	SV	R.M.	3.7	174	01297	X					
12	FD-TA-12222		-	-	39.71	7.42	TA			3022	02431		X				
13	TBSA-04-1		8:47	14:47	30.36	7.62	AA			1745	02260		X				
14	TBSA-TA-4-A		9:13	16:01	30.77	10.71	TA			375	02184		X				
15	TBSA-TA-S-A		9:22	16:12	30.0	10.43	TA			219	02281		X				
* SAMPLE MATRIX CODES		AA = Ambient Air (Indoor/Outdoor) SV = Soil Vapor/Landfill Gas/SVE Other = Please Specify				Container Type											
Relinquished By:		Date/Time		Received By:		Date/Time											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700											
<i>[Signature]</i>		12/22/22 1700		<i>[Signature]</i>		12/22/22 1700		</									



ANALYTICAL REPORT

Lab Number:	L2247390
Client:	AECOM 1600 Perimeter Park Dr. Suite 400 Morrisville, NC 27560
ATTN:	Peter Hollatz
Phone:	(919) 461-1194
Project Name:	CARRIER - TRSA
Project Number:	60676549
Report Date:	09/07/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: CARRIER - TRSA
Project Number: 60676549

Lab Number: L2247390
Report Date: 09/07/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2247390-01	TR5A-SSV-1	AIR	Not Specified	08/31/22 08:11	08/31/22
L2247390-02	TR5A-IA-1	AIR	Not Specified	08/31/22 08:11	08/31/22
L2247390-03	TR5A-SSV-2	AIR	Not Specified	08/31/22 08:35	08/31/22
L2247390-04	TR5A-IA-2	AIR	Not Specified	08/31/22 08:35	08/31/22
L2247390-05	FD-IA-083122	AIR	Not Specified	08/31/22 00:00	08/31/22
L2247390-06	TR5A-OA-1	AIR	Not Specified	08/31/22 08:40	08/31/22
L2247390-07	UNUSED_CAN 331	AIR	Not Specified		08/31/22

Project Name: CARRIER - TRSA
Project Number: 60676549

Lab Number: L2247390
Report Date: 09/07/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CARRIER - TRSA
Project Number: 60676549

Lab Number: L2247390
Report Date: 09/07/22

Case Narrative (continued)

Report Revision

September 7, 2022 the report has been amended to report the site specific compound list.

Volatile Organics in Air

Canisters were released from the laboratory on August 29, 2022. The canister certification results are provided as an addendum.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 09/07/22

AIR

Project Name: CARRIER - TRSA**Lab Number:** L2247390**Project Number:** 60676549**Report Date:** 09/07/22**SAMPLE RESULTS**

Lab ID: L2247390-01

Client ID: TR5A-SSV-1

Sample Location:

Date Collected: 08/31/22 08:11

Date Received: 08/31/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/05/22 17:10

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.162	0.020	--	0.884	0.109	--		1
Benzene	0.494	0.100	--	1.58	0.319	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	0.329	0.020	--	1.77	0.107	--		1
Toluene	7.18	0.100	--	27.1	0.377	--		1
Tetrachloroethene	0.204	0.020	--	1.38	0.136	--		1
Ethylbenzene	2.52	0.020	--	10.9	0.087	--		1
p/m-Xylene	9.00	0.040	--	39.1	0.174	--		1
o-Xylene	3.86	0.020	--	16.8	0.087	--		1
Xylenes, Total	12.8	0.020	--	55.6	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	101		60-140



Project Name: CARRIER - TRSA**Lab Number:** L2247390**Project Number:** 60676549**Report Date:** 09/07/22**SAMPLE RESULTS**

Lab ID: L2247390-02

Client ID: TR5A-IA-1

Sample Location:

Date Collected: 08/31/22 08:11

Date Received: 08/31/22

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/03/22 23:17

Analyst: NL

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.180	0.100	--	0.575	0.319	--		1
Carbon tetrachloride	0.074	0.020	--	0.465	0.126	--		1
Trichloroethene	0.020	0.020	--	0.107	0.107	--		1
Toluene	1.88	0.100	--	7.08	0.377	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
Ethylbenzene	0.241	0.020	--	1.05	0.087	--		1
p/m-Xylene	1.00	0.040	--	4.34	0.174	--		1
o-Xylene	0.381	0.020	--	1.65	0.087	--		1
Xylenes, Total	1.38	0.020	--	5.99	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	110		60-140
chlorobenzene-d5	112		60-140



Project Name: CARRIER - TRSA**Project Number:** 60676549**Lab Number:** L2247390**Report Date:** 09/07/22**SAMPLE RESULTS**

Lab ID: L2247390-03

Client ID: TR5A-SSV-2

Sample Location:

Date Collected: 08/31/22 08:35

Date Received: 08/31/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/05/22 18:04

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	0.108	0.020	--	0.276	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.228	0.020	--	1.24	0.109	--		1
Benzene	1.83	0.100	--	5.85	0.319	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	1.60	0.020	--	8.60	0.107	--		1
Toluene	11.4	0.100	--	43.0	0.377	--		1
Tetrachloroethene	0.289	0.020	--	1.96	0.136	--		1
Ethylbenzene	4.28	0.020	--	18.6	0.087	--		1
p/m-Xylene	13.7	0.040	--	59.5	0.174	--		1
o-Xylene	5.15	0.020	--	22.4	0.087	--		1
Xylenes, Total	18.9	0.020	--	82.1	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	100		60-140



Project Name: CARRIER - TRSA**Project Number:** 60676549**Lab Number:** L2247390**Report Date:** 09/07/22**SAMPLE RESULTS**

Lab ID: L2247390-04

Client ID: TR5A-IA-2

Sample Location:

Date Collected: 08/31/22 08:35

Date Received: 08/31/22

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/03/22 23:59

Analyst: NL

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.122	0.100	--	0.390	0.319	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.512	0.100	--	1.93	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.104	0.020	--	0.452	0.087	--		1
p/m-Xylene	0.391	0.040	--	1.70	0.174	--		1
o-Xylene	0.165	0.020	--	0.717	0.087	--		1
Xylenes, Total	0.556	0.020	--	2.42	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	113		60-140
bromochloromethane	116		60-140
chlorobenzene-d5	112		60-140



Project Name: CARRIER - TRSA**Lab Number:** L2247390**Project Number:** 60676549**Report Date:** 09/07/22**SAMPLE RESULTS**

Lab ID: L2247390-05

Client ID: FD-IA-083122

Sample Location:

Date Collected: 08/31/22 00:00

Date Received: 08/31/22

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/04/22 00:40

Analyst: NL

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.126	0.100	--	0.403	0.319	--		1
Carbon tetrachloride	0.080	0.020	--	0.503	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.478	0.100	--	1.80	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.101	0.020	--	0.439	0.087	--		1
p/m-Xylene	0.380	0.040	--	1.65	0.174	--		1
o-Xylene	0.162	0.020	--	0.704	0.087	--		1
Xylenes, Total	0.542	0.020	--	2.35	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	117		60-140
bromochloromethane	118		60-140
chlorobenzene-d5	115		60-140



Project Name: CARRIER - TRSA**Project Number:** 60676549**Lab Number:** L2247390**Report Date:** 09/07/22**SAMPLE RESULTS**

Lab ID: L2247390-06

Client ID: TR5A-OA-1

Sample Location:

Date Collected: 08/31/22 08:40

Date Received: 08/31/22

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/03/22 16:57

Analyst: NL

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.115	0.100	--	0.367	0.319	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	0.408	0.100	--	1.54	0.377	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	0.072	0.020	--	0.313	0.087	--		1
p/m-Xylene	0.238	0.040	--	1.03	0.174	--		1
o-Xylene	0.092	0.020	--	0.400	0.087	--		1
Xylenes, Total	0.330	0.020	--	1.43	0.087	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	99		60-140



Project Name: CARRIER - TRSA

Lab Number: L2247390

Project Number: 60676549

Report Date: 09/07/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/03/22 15:35

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02,04-06 Batch: WG1683329-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Project Name: CARRIER - TRSA

Lab Number: L2247390

Project Number: 60676549

Report Date: 09/07/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/05/22 16:04

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03 Batch: WG1683671-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Xylenes, Total	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: CARRIER - TRSA

Project Number: 60676549

Lab Number: L2247390

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02,04-06 Batch: WG1683329-3								
Vinyl chloride	84		-		70-130	-		25
1,1-Dichloroethene	89		-		70-130	-		25
Methylene chloride	99		-		70-130	-		25
trans-1,2-Dichloroethene	84		-		70-130	-		25
1,1-Dichloroethane	90		-		70-130	-		25
cis-1,2-Dichloroethene	88		-		70-130	-		25
1,1,1-Trichloroethane	91		-		70-130	-		25
Benzene	100		-		70-130	-		25
Carbon tetrachloride	92		-		70-130	-		25
Trichloroethene	98		-		70-130	-		25
Toluene	108		-		70-130	-		25
Tetrachloroethene	105		-		70-130	-		25
Ethylbenzene	107		-		70-130	-		25
p/m-Xylene	107		-		70-130	-		25
o-Xylene	108		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: CARRIER - TRSA

Project Number: 60676549

Lab Number: L2247390

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG1683671-3								
Vinyl chloride	92		-		70-130	-		25
1,1-Dichloroethene	89		-		70-130	-		25
Methylene chloride	102		-		70-130	-		25
trans-1,2-Dichloroethene	86		-		70-130	-		25
1,1-Dichloroethane	98		-		70-130	-		25
cis-1,2-Dichloroethene	94		-		70-130	-		25
1,1,1-Trichloroethane	88		-		70-130	-		25
Benzene	99		-		70-130	-		25
Carbon tetrachloride	83		-		70-130	-		25
Trichloroethene	101		-		70-130	-		25
Toluene	113		-		70-130	-		25
Tetrachloroethene	111		-		70-130	-		25
Ethylbenzene	110		-		70-130	-		25
p/m-Xylene	107		-		70-130	-		25
o-Xylene	108		-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: CARRIER - TRSA

Project Number: 60676549

Lab Number: L2247390

Report Date: 09/07/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1683671-5 QC Sample: L2247390-03 Client ID: TR5A-SSV-2						
Vinyl chloride	0.108	0.109	ppbV	1		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.228	0.236	ppbV	3		25
Benzene	1.83	1.86	ppbV	2		25
Carbon tetrachloride	0.073	0.075	ppbV	3		25
Trichloroethene	1.60	1.60	ppbV	0		25
Toluene	11.4	11.5	ppbV	1		25
Tetrachloroethene	0.289	0.289	ppbV	0		25
Ethylbenzene	4.28	4.35	ppbV	2		25
p/m-Xylene	13.7	14.0	ppbV	2		25
o-Xylene	5.15	5.24	ppbV	2		25
Xylenes, Total	18.9	19.2	ppbV	2		25

Project Name: CARRIER - TRSA

Serial_No:09072214:01
Lab Number: L2247390

Project Number: 60676549

Report Date: 09/07/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2247390-01	TR5A-SSV-1	0326	Flow 4	08/29/22	397624		-	-	-	Pass	4.5	4.6	2
L2247390-01	TR5A-SSV-1	399	2.7L Can	08/29/22	397624	L2244032-02	Pass	-29.4	-7.3	-	-	-	-
L2247390-02	TR5A-IA-1	01622	Flow 4	08/29/22	397624		-	-	-	Pass	4.5	4.5	0
L2247390-02	TR5A-IA-1	223	2.7L Can	08/29/22	397624	L2243736-01	Pass	-29.3	-9.5	-	-	-	-
L2247390-03	TR5A-SSV-2	01633	Flow 4	08/29/22	397624		-	-	-	Pass	4.5	4.4	2
L2247390-03	TR5A-SSV-2	383	2.7L Can	08/29/22	397624	L2242465-02	Pass	-29.3	-10.6	-	-	-	-
L2247390-04	TR5A-IA-2	01662	Flow 4	08/29/22	397624		-	-	-	Pass	4.5	4.5	0
L2247390-04	TR5A-IA-2	2197	2.7L Can	08/29/22	397624	L2243736-02	Pass	-29.5	-8.2	-	-	-	-
L2247390-05	FD-IA-083122	0406	Flow 5	08/29/22	397624		-	-	-	Pass	4.5	4.4	2
L2247390-05	FD-IA-083122	536	2.7L Can	08/29/22	397624	L2244032-01	Pass	-29.6	-6.4	-	-	-	-
L2247390-06	TR5A-OA-1	0159	Flow 3	08/29/22	397624		-	-	-	Pass	4.5	4.7	4
L2247390-06	TR5A-OA-1	2591	2.7L Can	08/29/22	397624	L2242596-06	Pass	-29.3	-7.8	-	-	-	-
L2247390-07	UNUSED_CAN 331	01464	Flow 4	08/29/22	397624		-	-	-	Pass	4.5	12.5	94
L2247390-07	UNUSED_CAN 331	331	2.7L Can	08/29/22	397624	L2242906-01	Pass	-29.4	-29.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242465
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242465-02
Client ID: CAN 383 SHELF 21
Sample Location:

Date Collected: 08/05/22 18:00
Date Received: 08/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 08/12/22 01:50
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242465
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242465-02
Client ID: CAN 383 SHELF 21
Sample Location:

Date Collected: 08/05/22 18:00
Date Received: 08/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242465
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242465-02
Client ID: CAN 383 SHELF 21
Sample Location:

Date Collected: 08/05/22 18:00
Date Received: 08/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242465
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242465-02
Client ID: CAN 383 SHELF 21
Sample Location:

Date Collected: 08/05/22 18:00
Date Received: 08/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2242465**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2242465-02

Date Collected: 08/05/22 18:00

Client ID: CAN 383 SHELF 21

Date Received: 08/08/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242465
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242465-02
Client ID: CAN 383 SHELF 21
Sample Location:

Date Collected: 08/05/22 18:00
Date Received: 08/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/12/22 01:50
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242465
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242465-02
Client ID: CAN 383 SHELF 21
Sample Location:

Date Collected: 08/05/22 18:00
Date Received: 08/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2242465**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2242465-02

Date Collected: 08/05/22 18:00

Client ID: CAN 383 SHELF 21

Date Received: 08/08/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242596
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242596-06
Client ID: CAN 2591 SHELF 3
Sample Location:

Date Collected: 08/09/22 08:00
Date Received: 08/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 08/13/22 22:14
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242596
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242596-06
Client ID: CAN 2591 SHELF 3
Sample Location:

Date Collected: 08/09/22 08:00
Date Received: 08/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242596
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242596-06
Client ID: CAN 2591 SHELF 3
Sample Location:

Date Collected: 08/09/22 08:00
Date Received: 08/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242596
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242596-06
Client ID: CAN 2591 SHELF 3
Sample Location:

Date Collected: 08/09/22 08:00
Date Received: 08/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2242596**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2242596-06

Date Collected: 08/09/22 08:00

Client ID: CAN 2591 SHELF 3

Date Received: 08/09/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	97		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242596
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242596-06
Client ID: CAN 2591 SHELF 3
Sample Location:

Date Collected: 08/09/22 08:00
Date Received: 08/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/13/22 22:14
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242596
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242596-06
Client ID: CAN 2591 SHELF 3
Sample Location:

Date Collected: 08/09/22 08:00
Date Received: 08/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2242596**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2242596-06

Date Collected: 08/09/22 08:00

Client ID: CAN 2591 SHELF 3

Date Received: 08/09/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	97		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242906
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242906-01
Client ID: CAN 331 SHELF 18
Sample Location:

Date Collected: 08/09/22 18:00
Date Received: 08/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 08/12/22 02:29
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242906
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242906-01
Client ID: CAN 331 SHELF 18
Sample Location:

Date Collected: 08/09/22 18:00
Date Received: 08/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242906
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242906-01
Client ID: CAN 331 SHELF 18
Sample Location:

Date Collected: 08/09/22 18:00
Date Received: 08/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242906
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242906-01
Client ID: CAN 331 SHELF 18
Sample Location:

Date Collected: 08/09/22 18:00
Date Received: 08/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2242906**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2242906-01

Date Collected: 08/09/22 18:00

Client ID: CAN 331 SHELF 18

Date Received: 08/10/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242906
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242906-01
Client ID: CAN 331 SHELF 18
Sample Location:

Date Collected: 08/09/22 18:00
Date Received: 08/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/12/22 02:29
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2242906
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2242906-01
Client ID: CAN 331 SHELF 18
Sample Location:

Date Collected: 08/09/22 18:00
Date Received: 08/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2242906**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2242906-01

Date Collected: 08/09/22 18:00

Client ID: CAN 331 SHELF 18

Date Received: 08/10/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	97		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-01
Client ID: CAN 223 SHELF 2
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 08/17/22 18:43
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-01
Client ID: CAN 223 SHELF 2
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-01
Client ID: CAN 223 SHELF 2
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-01
Client ID: CAN 223 SHELF 2
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2243736**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2243736-01

Date Collected: 08/12/22 18:00

Client ID: CAN 223 SHELF 2

Date Received: 08/15/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-01
Client ID: CAN 223 SHELF 2
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/17/22 18:43
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-01
Client ID: CAN 223 SHELF 2
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2243736**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2243736-01

Date Collected: 08/12/22 18:00

Client ID: CAN 223 SHELF 2

Date Received: 08/15/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-02
Client ID: CAN 2197 SHELF 13
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 08/17/22 19:21
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-02
Client ID: CAN 2197 SHELF 13
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-02
Client ID: CAN 2197 SHELF 13
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-02
Client ID: CAN 2197 SHELF 13
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2243736**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2243736-02

Date Collected: 08/12/22 18:00

Client ID: CAN 2197 SHELF 13

Date Received: 08/15/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-02
Client ID: CAN 2197 SHELF 13
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/17/22 19:21
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2243736
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2243736-02
Client ID: CAN 2197 SHELF 13
Sample Location:

Date Collected: 08/12/22 18:00
Date Received: 08/15/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2243736**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2243736-02

Date Collected: 08/12/22 18:00

Client ID: CAN 2197 SHELF 13

Date Received: 08/15/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-01
Client ID: CAN 536 SHELF 9
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 08/19/22 01:19
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-01
Client ID: CAN 536 SHELF 9
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-01
Client ID: CAN 536 SHELF 9
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-01
Client ID: CAN 536 SHELF 9
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2244032**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2244032-01

Date Collected: 08/15/22 18:00

Client ID: CAN 536 SHELF 9

Date Received: 08/16/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-01
Client ID: CAN 536 SHELF 9
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/19/22 01:19
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-01
Client ID: CAN 536 SHELF 9
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2244032**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2244032-01

Date Collected: 08/15/22 18:00

Client ID: CAN 536 SHELF 9

Date Received: 08/16/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-01
Client ID: CAN 536 SHELF 9
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/21/22 18:40
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
Client ID: CAN 399 SHELF 14
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 08/19/22 01:49
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
Client ID: CAN 399 SHELF 14
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
Client ID: CAN 399 SHELF 14
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
Client ID: CAN 399 SHELF 14
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2244032**Project Number:** CANISTER QC BAT**Report Date:** 09/07/22**Air Canister Certification Results**

Lab ID: L2244032-02

Date Collected: 08/15/22 18:00

Client ID: CAN 399 SHELF 14

Date Received: 08/16/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
Client ID: CAN 399 SHELF 14
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 08/19/22 01:49
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
Client ID: CAN 399 SHELF 14
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
Client ID: CAN 399 SHELF 14
Sample Location:

Date Collected: 08/15/22 18:00
Date Received: 08/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2244032
Report Date: 09/07/22

Air Canister Certification Results

Lab ID: L2244032-02
 Client ID: CAN 399 SHELF 14
 Sample Location:

Date Collected: 08/15/22 18:00
 Date Received: 08/16/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 08/22/22 18:20
 Analyst: JB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140



Project Name: CARRIER - TRSA**Lab Number:** L2247390**Project Number:** 60676549**Report Date:** 09/07/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2247390-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		CAN-CERT(),TO15-SIM(30)
L2247390-02A	Canister - 6 Liter -IND	NA	NA			Y	Absent		CAN-CERT(),TO15-SIM(30)
L2247390-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		CAN-CERT(),TO15-SIM(30)
L2247390-04A	Canister - 6 Liter -IND	NA	NA			Y	Absent		CAN-CERT(),TO15-SIM(30)
L2247390-05A	Canister - 6 Liter -IND	NA	NA			Y	Absent		CAN-CERT(),TO15-SIM(30)
L2247390-06A	Canister - 6 Liter -IND	NA	NA			Y	Absent		CAN-CERT(),TO15-SIM(30)
L2247390-07A	Canister - 6 Liter	NA	NA			Y	Absent		CAN-CERT(),CLEAN-FEE()

Project Name: CARRIER - TRSA
Project Number: 60676549

Lab Number: L2247390
Report Date: 09/07/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: CARRIER - TRSA
Project Number: 60676549

Lab Number: L2247390
Report Date: 09/07/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: CARRIER - TRSA
Project Number: 60676549

Lab Number: L2247390
Report Date: 09/07/22

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CARRIER - TRSA
Project Number: 60676549

Lab Number: L2247390
Report Date: 09/07/22

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

1 JOHN JAMES AUDUBON PARKWAY, SARTO 210
STREET, SCOTTSBORO, ALABAMA 36888

BUFFALO, NY 14202
PHONE: 716.836.8634

ACCOM CONTACT: LEE MURPHY / PETER HOLLY

Page 82 of 82

APPENDIX C

Long-Term Monitoring Tables

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR4														
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR4-SSV-1AS 12/06/2017 Field Sample	TR4-SSV-1AS 12/06/2017 Duplicate	TR4-IA-1AI 12/06/2017 Field Sample	TR4-IA-1AI 12/06/2017 Duplicate	TR4-SSV-1AS 03/02/2018 Field Sample	TR4-IA-1AI 03/02/2018 Field Sample	TR4-SSV-1AS 04/01/2021 Field Sample	TR4-IA-1AI 04/01/2021 Field Sample	TR4-SSV-1AS 12/08/2021 Field Sample	TR4-IA-1AI 12/08/2021 Field Sample	TR4-SSV-1AS 12/20/2022 Field Sample	TR4-IA-1AI 12/20/2022 Field Sample	TR4-SSV-2AS 12/06/2017 Field Sample	TR4-IA-2AI 12/06/2017 Field Sample	TR4-SSV-2AS 03/02/2018 Field Sample
							L2116860-13 SC42208-01 SC44511-03	SC42208-02	L2116860-14 SC42208-03 SC44511-04	SC42208-04	L2116860-13 SC42208-01 SC44511-03	L2116860-14 SC42208-03 SC44511-04	L2116860-13 SC42208-01 SC44511-03	L2116860-14 SC42208-03 SC44511-04	L2167799-01	L2167799-02	L2271728-01	L2271728-02	SC42208-05 SC44511-05	SC42208-06 SC44511-06	SC42208-05 SC44511-05
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Chlorinated VOCs Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	9.92 U	9.92 U	0.08 U	0.08 U	9.92 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U	9.92 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	9.91 U	9.91 U	0.4 U	0.4 U	9.91 U	0.4 U	0.274	0.079 U	0.258	0.079 U	0.182	0.095	9.91 U	0.4 U	9.91 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	15.73 U	15.73 U	0.33	0.38	15.73 U	0.19	0.528	0.371	0.598	0.403	0.849	0.484	15.73 U	0.32	15.73 U
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	85.99	81.69	0.09 J	0.12	103.19	0.04 J	41.6	0.107 U	39.8	0.107 U	87.1	0.167	14.78	0.11 U	12.95
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	36.28	40.27	0.55 U	0.21 J	47.69	0.55 U	20.6	0.109 U	16.1	0.109 U	40.	0.131	18.93	0.55 U	31.92
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	16.95 U	16.95 U	0.09 J	0.15	16.95 U	0.05 J	1.16	0.136 U	1.07	0.136 U	1.97	0.136 U	16.95 U	0.03 J	18.92
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	8.68 U	8.68 U	0.66	0.52	8.68 U	0.84	1.74 U	1.74 U	2.81	1.74 U	1.74 U	1.74 U	8.68 U	0.41	8.68 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	6.39 U	6.39 U	0.05 U	0.05 U	6.39 U	0.05 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	6.39 U	0.05 U	6.39 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	10.12 U	10.12 U	0.08 U	0.08 U	10.12 U	0.08 U	0.644	0.081 U	0.154	0.081 U	0.364	0.081 U	10.12 U	0.08 U	10.12 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	9.91 U	9.91 U	0.4 U	0.4 U	9.91 U	0.4 U	0.23	0.079 U	0.079 U	0.079 U	0.119	0.079 U	9.91 U	0.4 U	9.91 U
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	7.98 U	7.98 U	0.77	0.66	7.98 U	0.61	-	-	0.319 U	0.319 U	0.511	0.319 U	7.98 U	0.37	7.98 U
Ethylbenzene	NA	NA	NA	NA	NA	NA	10.84 U	10.84 U	0.4 J	0.43 U	10.84 U	0.43 U	-	-	1.09	0.113	1.03	0.104	10.84 U	0.43 U	10.84 U
m,p-Xylenes	NA	NA	NA	NA	NA	NA	21.68 U	21.68 U	1.35 J	0.87 UJ	21.68 U	0.87 U	-	-	4.39	0.326	4.2	0.256	21.68 U	0.87 U	21.68 U
o-Xylene	NA	NA	NA	NA	NA	NA	10.84 U	10.84 U	0.44 J	0.24 J	10.84 U	0.2 J	-	-	2.11	0.13	1.66	0.096	10.84 U	0.43 U	10.84 U
Toluene	NA	NA	NA	NA	NA	NA	9.41 U	9.41 U	1.63	1.19	9.41 U	0.87	-	-	1.3	0.467	1.88	0.403	9.41 U	0.42	9.41 U
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	6.47	0.456	5.86	0.352	-	-	-

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR4																						
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR4-IA-2AI	TR4-SSV-3AS	TR4-IA-3AI	TR4-SSV-3AS	TR4-IA-3AI	TR4-SSV-3AS	TR4-SSV-3AS	TR4-IA-3AI	TR4-IA-3AI	TR4-SSV-3AS	TR4-IA-3AI	TR4-SSV-3AS	TR4-IA-3AI	TR4-SSV-3AS	TR4-IA-3AI								
							03/02/2018	12/06/2017	12/06/2017	03/02/2018	01/15/2019	01/15/2019	01/15/2019	04/01/2021	04/01/2021	12/08/2021	12/08/2021	12/20/2022	12/20/2022										
							Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Duplicate	Field Sample	Duplicate	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample										
							SC42208-06	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08	SC42208-07	SC42208-08		
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Chlorinated VOCs Matrix A																													
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.08 U	9.92 U	0.08 U	1.98 U	0.08 U	0.56	0.54	0.067 U	0.065 U	0.448	0.079 U	0.523	0.079 U	0.511	0.079 U								
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.4 U	11.66	0.71	6.78	0.52	12	12	0.15	0.13	4.44	0.079 U	4.24	0.123	5.79	0.511								
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.2	15.73 U	0.38	3.15 U	0.24	0.37	0.39	0.42	0.36	0.371	0.371	0.434	0.403	0.522	0.516								
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.06 J	14.73	0.53	25.64	1.78	24	23	0.28	0.25	7.63	0.107 U	12.7	0.258	12.4	0.849								
Matrix B																													
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.55 U	42.61	1.72	65.47	2.94	41	40	0.27	0.24	21.9	0.109 U	25.3	0.295	27.6	1.11								
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.09 J	16.95 U	0.09 J	3.39 U	0.38 J	0.094 J	0.091 J	0.11 J	0.085 J	0.38	0.136 U	0.149	0.136 U	0.726	0.136 U								
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.77	8.68 U	0.49	1.74 U	3.15	1.2 U	2.1 U	1.2 U	2.5 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U								
Matrix C																													
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.05 U	6.39 U	0.05 U	1.28 U	0.05 U	0.049 J	0.039 J	0.086 U	0.084 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U								
Other																													
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.08 U	10.12 U	0.19	4.21	0.08 U	5.7	5.6	0.052 J	0.047 J	3.24	0.081 U	3.91	0.081 U	6.23	0.486								
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.4 U	9.91 U	0.4 U	1.98 U	0.56	0.17 J	0.15 J	0.15 J	0.13 J	0.186	0.079 U	0.103	0.079 U	0.107	0.079 U								
Non-Chlorinated VOCs																													
Benzene	NA	NA	NA	NA	NA	NA	1.02	7.98 U	0.63	4.31	0.68	0.29	0.33	0.69	0.67	-	-	0.319 U	0.326	0.319 U	0.351								
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.43 U	10.84 U	0.43 U	2.17 U	0.43 U	0.083 J	0.13 J	0.34	0.3	-	-	2.49	0.104	1.11	1.36								
m,p-Xylenes	NA	NA	NA	NA	NA	NA	1.24	21.68 U	0.87 U	4.34 U	0.87 U	0.29 J	0.42	1	0.9	-	-	10	0.3	5	5.26								
o-Xylene	NA	NA	NA	NA	NA	NA	0.36 J	10.84 U	0.26 J	2.17 U	0.21 J	0.12 J	0.2	0.41	0.36	-	-	4.73	0.117	1.81	1.29								
Toluene	NA	NA	NA	NA	NA	NA	1.5	9.41 U	1.55	1.88 U	1.19	0.32	0.74	3.1	2.9	-	-	3	0.411	2	0.475								
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	14.8	0.417	6.34	6.56								

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR4														
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR4-SSV-4AS 12/06/2017 Field Sample	TR4-IA-4AAI 12/06/2017 Field Sample	TR4-SSV-4AS 03/02/2018 Field Sample	TR4-IA-4AAI 03/02/2018 Field Sample	TR4-SSV-4AS 04/01/2021 Field Sample	TR4-SSV-4AS 04/01/2021 Duplicate	TR4-IA-4AAI 04/01/2021 Field Sample	TR4-IA-4AAI 04/01/2021 Duplicate	TR4-IA-4AI 12/08/2021 Field Sample	TR4-SSV-4AS 12/20/2022 Field Sample	TR4-IA-4AI 12/20/2022 Field Sample	TR4-IA-4BAI 12/06/2017 Field Sample	TR4-SSV-5AS 12/06/2017 Field Sample	TR4-IA-5AI 12/06/2017 Field Sample	TR4-SSV-5AS 03/02/2018 Field Sample
							L2116860-17 SC42208-09 SC44511-07		L2116860-17 SC42208-09 SC44511-07	L2116860-19 SC44511-08	L2116860-17 SC42208-09 SC44511-07		L2116860-19 SC44511-08	L2116860-20	L2167799-06	L2271728-05	L2271728-06	SC42208-11	SC42208-12 SC44511-09	SC42208-13 SC44511-10	SC42208-12 SC44511-09
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Indoor Air	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Chlorinated VOCs Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	9.92 U	0.08 U	9.92 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.08 UJ	9.92 U	0.08 UJ	1.98 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	9.91 U	0.4 U	9.91 U	0.4 U	2.27	2.24	0.206	0.21	0.095	1.16	0.167	0.4 U	9.91 U	0.4 U	1.98 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	15.73 U	0.33	15.73 U	0.23	0.465	0.421	0.377	0.396	0.39	0.604	0.478	0.52 J	15.73 U	0.37 J	3.15 U
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	88.67 J-	0.31	64.49	0.42	82.2	80.6	0.656	0.666	0.473	50.1	0.489	0.29	67.18	0.1 J	63.42
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	11.29 J	1.15	13.64 U	4	4.68	4.62	1.93	1.99	0.666	5.57	1.01	0.93	83.48	0.55 U	66.56
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	16.95 U	0.11 J	16.95 U	0.06 J	1.71	1.75	0.264	0.258	0.136 U	4.73	0.136 U	0.07 J	16.95 U	0.04 J	3.39 U
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	8.68 U	0.95	8.68 U	0.55	1.74 U	1.74 U	1.74 U	1.74 U	17.8	1.74 U	1.74 U	1.02	8.68 U	1.16	1.74 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	6.39 U	0.05 U	6.39 U	0.05 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.05 UJ	6.39 U	0.05 UJ	1.28 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	10.12 U	0.09	10.12 U	0.08 U	1.24	1.21	0.174	0.17	0.089	0.737	0.142	0.09 J	10.12 U	0.08 UJ	3.13
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	9.91 U	0.4 U	9.91 U	0.29 J	0.329	0.313	0.206	0.226	0.143	1.16	0.325	0.4 U	9.91 U	0.4 U	1.98 U
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	7.98 U	0.56	7.98 U	0.51	-	-	-	-	0.358	0.498	0.319 U	0.46	7.98 U	0.72	1.6 U
Ethylbenzene	NA	NA	NA	NA	NA	NA	10.84 U	0.43 J	10.84 U	0.43 U	-	-	-	-	1.23	3.5	11.6	0.47	9.54 J	0.8	2.17 U
m,p-Xylenes	NA	NA	NA	NA	NA	NA	21.68 U	1.42	21.68 U	0.87 U	-	-	-	-	4.39	14.1	46.	1.28	45.09	3.35	6.2
o-Xylene	NA	NA	NA	NA	NA	NA	10.84 U	0.74	10.84 U	0.33 J	-	-	-	-	1.53	4.16	11.5	0.64	21.89	1.47	3.26
Toluene	NA	NA	NA	NA	NA	NA	23.93 J-	3.11	9.41 U	2.43	-	-	-	-	2.48	2.81	1.1	2.08	10.31	2.17	2.22
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	5.95	18.3	57.3	-	-	-	-

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR4	Building TR5A										Building TR5				
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR4-IA-5AI 03/02/2018 Field Sample	TR5A-SSV-1AS 08/31/2022 Field Sample	TR5A-IA-1AI 08/31/2022 Field Sample	TR5A-SSV-1AS 12/22/2022 Field Sample	TR5A-IA-1AI 12/22/2022 Field Sample	TR5A-SSV-2AS 08/31/2022 Field Sample	TR5A-IA-2AI 08/31/2022 Field Sample	TR5A-IA-2AI 08/31/2022 Duplicate	TR5A-SSV-2AS 12/22/2022 Field Sample	TR5A-IA-2AI 12/22/2022 Field Sample	TR5-SSV-1AS 12/07/2017 Field Sample	TR5-IA-1AI 12/07/2017 Field Sample	TR5-SSV-1AS 03/05/2018 Field Sample	TR5-IA-1AI 03/05/2018 Field Sample	TR5-SSV-1AS 04/01/2021 Field Sample	
							SC42208-13 SC44511-10 Indoor Air	L2247390-01 Subslab Vapor	L2247390-02 Indoor Air	L2272323-07 Subslab Vapor	L2272323-08 Indoor Air	L2247390-03 Subslab Vapor	L2247390-04 Indoor Air	L2247390-05 Indoor Air	L2272323-09 Subslab Vapor	L2272323-10 Indoor Air	L2116860-01 SC42333-03 SC44594-03 Subslab Vapor	L2116860-02 SC42333-04 SC44594-04 Indoor Air	L2116860-01 SC42333-03 SC44594-03 Subslab Vapor	L2116860-02 SC42333-04 SC44594-04 Indoor Air	L2116860-01 SC42333-03 SC44594-03 Subslab Vapor	
							Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor	Indoor Air
	Chlorinated VOCs Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.18 U	0.079 U	9.92 UJ	0.08 U	39.67 U	0.08 U	0.079 U	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.4 U	0.079 U	0.079 U	0.079 U	0.087	0.079 U	0.079 U	0.079 U	0.18 U	0.091	9.91 UJ	0.4 U	39.65 U	0.4 U	0.079 U	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.23	0.421	0.465	0.428	0.491	0.459	0.478	0.503	0.372	0.403	15.73 UJ	0.32	62.9 U	0.31	7.23	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.18	1.77	0.107	1.1	0.107 U	8.6	0.107 U	0.107 U	5.23	0.107 U	13.44 UJ	0.08	53.74 U	0.05	29.7	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.97	0.884	0.109 U	0.453	0.109 U	1.24	0.109 U	0.109 U	0.655	0.109 U	18.3 J	0.55 U	347	0.55 U	135	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.06 J	1.38	0.149	1.48	0.136 U	1.96	0.136 U	0.136 U	1.99	0.149	16.95 UJ	0.14 U	67.81 U	0.34 UJ	0.522	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	2.44	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	11.2	1.74 U	8.68 UJ	0.47	34.72 U	0.66	1.74 U	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.05 U	0.051 U	0.051 U	0.051 U	0.051 U	0.276	0.051 U	0.051 U	0.116 U	0.051 U	6.39 UJ	0.05 U	25.56 U	0.05 U	0.051 U	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.08 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.184	0.081 U	10.12 UJ	0.08 U	40.49 U	0.08 U	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.42	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.18 U	0.079 U	9.91 UJ	0.4 U	39.65 U	0.4 U	0.079 U	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	0.58	1.58	0.575	0.664	0.319 U	5.85	0.39	0.403	6.26	0.319 U	7.98 UJ	0.49	31.9 U	0.54	-	
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.58	10.9	1.05	30.1	8.34	18.6	0.452	0.439	617	7.47	10.84 UJ	0.43 U	43.35 U	0.43 UJ	-	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	2.51	39.1	4.34	94.3	35.7	59.5	1.7	1.65	1690	32.2	21.68 UJ	0.87 U	86.71 U	0.87 UJ	-	
o-Xylene	NA	NA	NA	NA	NA	NA	1.09	16.8	1.65	21.5	12.2	22.4	0.717	0.704	380	11.1	10.84 UJ	0.43 U	43.35 U	0.43 UJ	-	
Toluene	NA	NA	NA	NA	NA	NA	4.7	27.1	7.08	12.1	1.25	43	1.93	1.8	55	1.07	7.71 J-	0.64	37.63 U	0.39	-	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	55.6	5.99	116	47.8	82.1	2.42	2.35	2070	43.3	-	-	-	-	-	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR5																	
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR5-IA-1AI 04/01/2021 Field Sample	TR5-SSV-1AS 12/10/2021 Field Sample	TR5-IA-1AI 12/10/2021 Field Sample	TR5-SSV-1AS 12/21/2022 Field Sample	TR5-IA-1AI 12/21/2022 Field Sample	TR5-SSV-2AS 12/07/2017 Field Sample	TR5-IA-2AI 12/07/2017 Field Sample	TR5-SSV-2AS 03/05/2018 Field Sample	TR5-IA-2AI 03/05/2018 Field Sample	TR5-SSV-2AS 04/01/2021 Field Sample	TR5-IA-2AI 04/01/2021 Field Sample	TR5-SSV-2AS 12/10/2021 Field Sample	TR5-IA-2AI 12/10/2021 Field Sample	TR5-SSV-2AS 12/21/2022 Field Sample	TR5-SSV-2AS 12/21/2022 Duplicate			
							L2116860-02 SC42333-04 SC44594-04						L2116860-05 SC42333-01 SC44594-01	L2116860-06 SC42333-02 SC44594-02	L2116860-05 SC42333-01 SC44594-01	L2116860-06 SC42333-02 SC44594-02	L2116860-05 SC42333-01 SC44594-01	L2116860-06 SC42333-02 SC44594-02			L2168305-08	L2168305-09	L2272321-03	L2272321-11
							Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3																		
Chlorinated VOCs Matrix A																								
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	19.12 U	0.08 U	99.18 U	0.04	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.248 U			
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.123	0.079 U	19.11 U	0.4 U	99.13 U	0.4 U	0.079 U	0.079 U	0.079 U	0.079 U	0.083 J	0.248 UJ			
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.428	7.55	0.623	9.5	0.472	30.32 U	0.19	157.26 U	0.31	0.384	0.384	0.528	0.535	0.541 J	0.531			
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	30.6	0.124	28.8	0.242	449 J-	0.18	154.78	0.11	74.2	0.107 U	88.1	0.107 U	55.9 J	96.2 J			
Matrix B																								
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	126	0.109 U	169	0.109 U	57.8 J	0.55 U	136.4 U	0.55 U	2.74	0.109 U	4.73	0.175	3.14 J	5.13 J			
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	0.583	0.176	1.11	0.136 U	32.69 U	0.16	169.53 U	0.34 UJ	1.84	0.136 U	2.62	0.332	6.39 J	3.52 J			
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	16.74 U	0.35 U	86.81 U	0.64	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	9.45 J			
Matrix C																								
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	12.32 U	0.05 U	63.91 U	0.05 U	0.202	0.051 U	0.051 U	0.051 U	0.051 U	0.16 U			
Other																								
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	19.52 U	0.05	101.23 U	0.04	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.253 U			
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	19.11 U	0.4 U	99.13 U	0.4 U	0.079	0.079 U	0.079 U	0.079 U	0.127 J	0.248 UJ			
Non-Chlorinated VOCs																								
Benzene	NA	NA	NA	NA	NA	NA	-	0.319 U	0.639	0.319 U	0.658	15.38 U	0.78	79.75 U	0.76	-	-	0.319 U	1.88	0.319 U	0.997 U			
Ethylbenzene	NA	NA	NA	NA	NA	NA	-	0.46	0.53	0.825	0.912	142 J	0.62	108.38 U	0.43 UJ	-	-	54.7	3.45	58.2 J	93.4 J			
m,p-Xylenes	NA	NA	NA	NA	NA	NA	-	1.61	1.45	3.25	3.3	936 J	2.46	223.27	0.87 UJ	-	-	203	9.6	222 J	385 J			
o-Xylene	NA	NA	NA	NA	NA	NA	-	0.764	0.582	1.33	1.06	429 J	0.88	108.38 U	0.3 J	-	-	78.6	3.8	109 J	179 J			
Toluene	NA	NA	NA	NA	NA	NA	-	0.931	1.51	1.29	1.5	70.7 J-	1.38	94.07 U	0.56	-	-	54.6	7.99	27.9 J	47.5 J			
Xylene (total)	NA	NA	NA	NA	NA	NA	-	2.38	2.03	4.6	4.34	-	-	-	-	-	-	282	13.4	331 J	565 J			

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR5														
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR5-IA-2AI 12/21/2022 Field Sample	TR5-IA-2AI 12/21/2022 Duplicate	TR5-SSV-3AS 12/07/2017 Field Sample	TR5-IA-3AI 12/07/2017 Field Sample	TR5-SSV-3AS 03/05/2018 Field Sample	TR5-IA-3AI 03/05/2018 Field Sample	TR5-SSV-3AS 04/01/2021 Field Sample	TR5-IA-3AI 04/01/2021 Field Sample	TR5-SSV-3AS 12/10/2021 Field Sample	TR5-IA-3AI 12/10/2021 Field Sample	TR5-SSV-3AS 12/21/2022 Field Sample	TR5-IA-3AI 12/21/2022 Field Sample	TR5-SSV-4AS 12/07/2017 Field Sample	TR5-IA-4AI 12/07/2017 Field Sample	TR5-SSV-4AS 03/05/2018 Field Sample
							L2272321-04 Indoor Air	L2272321-12 Indoor Air	L2116860-03 SC42333-05 SC44594-05 Subslab Vapor	L2116860-04 SC42333-06 SC44594-06 Indoor Air	L2116860-03 SC42333-05 SC44594-05 Subslab Vapor	L2116860-04 SC42333-06 SC44594-06 Indoor Air	L2116860-03 SC42333-05 SC44594-05 Subslab Vapor	L2116860-04 SC42333-06 SC44594-06 Indoor Air	L2168305-10 Subslab Vapor	L2168305-11 Indoor Air	L2272321-05 Subslab Vapor	L2272321-06 Indoor Air	SC44594-07 Subslab Vapor	SC44594-08 Indoor Air	SC44594-07 Subslab Vapor
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3															
Chlorinated VOCs Matrix A																					
1,1-Dichloroethane	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	20.83 U	0.08 U	39.67 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U	39.67 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	20.82 U	0.4 U	39.65 U	0.4 U	0.309	0.079 U	0.242	0.079 U	0.289	0.079 U	8.64	0.4 U	39.65 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.491	0.503	33.02 U	0.3	62.9 U	0.25	0.723	0.415	0.667	0.56	0.9	0.522	15.73 U	0.31	62.9 U
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.263	0.301	28.21 U	0.11	53.74 U	0.05	83.8	0.107 U	59.1	0.107 U	55.9	0.156	1030	0.53	1349
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	0.109 U	28.64 U	0.55 U	54.56 U	0.55 U	48.2	0.109 U	79.1	0.125	28.8	0.109 U	709	0.26 J	763.84
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.339	0.332	35.6 U	0.05 J	67.81 U	0.34 UJ	0.882	0.136 U	1.39	0.217	1.01	0.224	16.95 U	0.12 J	67.81 U
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	18.23 U	0.67	34.72 U	0.58	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	8.68 U	0.66	34.72 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	13.42 U	0.05 U	25.56 U	0.05 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	6.39 U	0.05 U	25.56 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	21.26 U	0.02 J	40.49 U	0.08 U	0.356	0.081 U	0.635	0.081 U	0.166	0.081 U	10.12 U	0.08 U	40.49 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.17	0.21	20.82 U	0.4 U	39.65 U	0.4 U	0.143	0.079 U	0.079 U	0.079 U	0.107	0.099	50	0.4 U	39.65 U
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	1.64	1.77	16.75 U	0.6	31.9 U	0.56	-	-	0.319 U	1.27	0.319 U	1.11	7.98 U	11.36	31.9 U
Ethylbenzene	NA	NA	NA	NA	NA	NA	5.26	5.	22.76 U	0.43 U	43.35 U	0.43 UJ	-	-	4.43	1.89	4.04	3.02	108	15.65	884.42
m,p-Xylenes	NA	NA	NA	NA	NA	NA	20	19.	48.12	0.87 U	86.71 U	0.87 UJ	-	-	17.2	5.56	16.5	11.3	333	62.86	5809
o-Xylene	NA	NA	NA	NA	NA	NA	6.3	5.95	22.76 U	0.31 J	43.35 U	0.16 J	-	-	8.43	2.17	7.69	3.51	124	26.79	3577
Toluene	NA	NA	NA	NA	NA	NA	5.84	6.56	61.33	0.75	37.63 U	0.63	-	-	6.52	4.67	5.13	3.66	9.41 U	34.69	37.63 U
Xylene (total)	NA	NA	NA	NA	NA	NA	27	24.9	-	-	-	-	-	-	25.6	7.73	24.2	14.9	-	-	-

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR5															
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR5-IA-4AI 03/05/2018 Field Sample	TR5-SSV-4AS 04/01/2021 Field Sample	TR5-IA-4AI 04/01/2021 Field Sample	TR5-SSV-4AS 12/10/2021 Field Sample	TR5-IA-4AI 12/10/2021 Field Sample	TR5-SSV-4AS 12/21/2022 Field Sample	TR5-IA-4AI 12/21/2022 Field Sample	TR5-SSV-5AS 12/07/2017 Field Sample	TR5-IA-5AI 12/07/2017 Field Sample	TR5-SSV-5AS 03/05/2018 Field Sample	TR5-SSV-5AS 03/05/2018 Duplicate	TR5-IA-5AI 03/05/2018 Field Sample	TR5-IA-5AI 03/05/2018 Duplicate	TR5-SSV-5AS 04/01/2021 Field Sample	TR5-SSV-5AS 04/01/2021 Duplicate	
							L2116860-08 SC42333-08 SC44594-08 Indoor Air	L2116860-07 SC42333-07 SC44594-07 Subslab Vapor	L2116860-08 SC42333-08 SC44594-08 Indoor Air	L2168305-12 Subslab Vapor	L2168305-13 Indoor Air	L2272321-07 Subslab Vapor	L2272321-08 Indoor Air	L2116860-09 SC42333-09 SC44594-09 Subslab Vapor	L2116860-11 SC42333-10 SC44594-11 Indoor Air	L2116860-09 SC42333-09 SC44594-09 Subslab Vapor	SC44594-10 Subslab Vapor	L2116860-11 SC42333-10 SC44594-11 Indoor Air	SC44594-12 Indoor Air	SC44594-09 Subslab Vapor	L2116860-10 Subslab Vapor	
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3																
Chlorinated VOCs Matrix A																						
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.08 U	0.132 U	0.079 U	0.159 U	0.079 U	0.248 U	0.079 U	9.92 U	0.13 U	1.98 U	1.98 U	0.08 U	0.08 U	0.079 U	0.079 U	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.4 U	0.825	0.079 U	0.42	0.079 U	2.39	0.079 U	9.91 U	0.66 U	1.98 U	1.98 U	0.4 U	0.4 U	0.079 U	0.079 U	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.31	2.6	0.384	7.42	0.579	18.7	0.547	15.73 U	0.48	3.15 U	3.15 U	0.25	0.22	0.415	0.44	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	1.82	185	0.742	213	0.473	962	0.774	16.07 J	0.18 U	17.31	23.38	0.11 U	0.11 U	9.89	9.73	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.55 U	123	0.404	320	1.05	726	0.109	15.82	0.91 U	12.49	14.35	1.91	1.83	6.6	6.6	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.34 UJ	0.997	0.197	1.68	1.24	4.37	1.17	106.46	0.23 U	128.16	148.51	0.14 U	0.18	43.9	43.5	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.55	2.9 U	1.74 U	3.47 U	1.74 U	5.42 U	1.74 U	8.68 U	1.83	1.74 U	1.74 U	0.44 J	0.84 J	1.74 U	1.74 U	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.05 U	0.085 U	0.051 U	0.102 U	0.051 U	0.16 U	0.051 U	6.39 U	0.09 U	1.28 U	1.28 U	0.05 U	0.05 U	0.051 U	0.051 U	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.08 U	0.486	0.081 U	0.826	0.081 U	2.29	0.081 U	10.12 U	0.14 U	2.02 U	2.02 U	0.08 U	0.08 U	0.081 U	0.081 U	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.82	5.39	0.428	10.2	0.147	37.	1.88	9.91 U	0.66 U	2.14	2.1	52.34 DJ	40.45 DJ	3.95	3.89	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	10.53	-	-	2.96	13.2	1.94	9.97	7.98 U	0.85	1.6 U	1.6 U	0.6	0.75	-	-	
Ethylbenzene	NA	NA	NA	NA	NA	NA	10.84 J	-	-	123	30	207	40	10.84 U	0.72 U	2.17 U	2.17 U	0.37 J	0.54 J	-	-	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	43.79 J	-	-	500	88.6	521	154.	21.68 U	1.45 U	5.25	4.77	1.14 J	1.95 J	-	-	
o-Xylene	NA	NA	NA	NA	NA	NA	16.82 J	-	-	306	35	612	49	10.84 U	0.72 U	2.08	1.91	0.42 J	0.68 J	-	-	
Toluene	NA	NA	NA	NA	NA	NA	31.16	-	-	28.8	65.2	20.7	41.5	9.41 U	1.11	3.65	3.35	4.33	5.34	-	-	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	808	124	1140	202	-	-	-	-	-	-	-	-	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR5								Building TR6A							
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR5-IA-5AI 04/01/2021 Field Sample	TR5-IA-5AI 04/01/2021 Duplicate	TR5-SSV-5AS 12/10/2021 Field Sample	TR5-SSV-5AS 12/10/2021 Duplicate	TR5-IA-5AI 12/10/2021 Field Sample	TR5-IA-5AI 12/10/2021 Duplicate	TR5-SSV-5AS 12/21/2022 Field Sample	TR5-IA-5AI 12/21/2022 Field Sample	TR6A-SSV-1AS 12/11/2017 Field Sample	TR6A-SSV-1AS 12/11/2017 Duplicate	TR6A-IA-1AI 12/11/2017 Field Sample	TR6A-IA-1AI 12/11/2017 Duplicate	TR6A-SSV-1AS 03/13/2018 Field Sample	TR6A-SSV-1AS 03/13/2018 Duplicate	TR6A-IA-1AI 03/13/2018 Field Sample	
							L2116860-11 SC42333-10 SC44594-11 Indoor Air	L2116860-12 Indoor Air	L2168305-14 Subslab Vapor	L2168305-15 Subslab Vapor	L2168305-16 Indoor Air	L2168305-17 Indoor Air	L2272321-09 Subslab Vapor	L2272321-10 Indoor Air	L2116079-01 SC42329-05 SC44770-01 Subslab Vapor	SC42329-06 Subslab Vapor	L2116079-02 SC42329-07 SC44770-03 Indoor Air	SC42329-08 Indoor Air	L2116079-01 SC42329-05 SC44770-01 Subslab Vapor	SC44770-02 Subslab Vapor	L2116079-02 SC42329-07 SC44770-03 Indoor Air	
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3																
Chlorinated VOCs Matrix A																						
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	1.98 U	3.97 U	0.17 U	0.08 U	39.67 U	39.67 U	0.08 U	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 UJ	0.611 J	0.079 U	0.079 U	0.079 U	0.579	1.98 U	3.97 U	0.87 U	0.4 U	39.65 UJ	39.65 UJ	0.4 U	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.396	0.384	0.421	0.409	0.591	0.541	0.547	0.51	65.4	61.3	0.45 D	0.3	62.9 UJ	69.82 J	0.25	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	0.107 U	10.2	11.3	0.387	0.451	10.1	0.306	19.8	18.9	0.46 D	0.47	53.74 UJ	53.74 UJ	0.11	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	0.109 U	6.93	7.26	0.949	0.982	7.47	0.109 U	2140 D	2490	3.16 DJ	1.85 J	1266	1991	2.46	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	0.136 U	53.8	60.4	1.09	1.26	48.4	0.264	616 D	576	0.48 D	0.32	438.06	646.93	0.27	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.9	1.74 U	1.74 U	1.74 U	4.06	1.74 U	1.74 U	3.47 U	0.76 U	0.33 J	34.72 U	34.72 U	0.35 U	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	1.28 U	2.56 U	0.11 U	0.05 U	25.56 UJ	25.56 UJ	0.05 U	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	0.081 UJ	0.134 J	0.081 U	0.081 U	0.081 U	0.081 U	2.02 U	4.05 U	0.18 U	0.08 U	40.49 U	40.49 U	0.08 U	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	23.2	22.8	4.44	4.52	34.9	31.9	75.7	646.	1.98 U	3.97 U	0.87 U	0.4 U	39.65 UJ	39.65 UJ	0.4 U	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	-	-	0.617	0.636	7.51	7.89	0.588	1.64	1.6 U	3.19 U	7.27 D	4.85	31.9 UJ	31.9 UJ	5.9	
Ethylbenzene	NA	NA	NA	NA	NA	NA	-	-	3.19	3.78	16.9	17.4	3.23	4.95	80.2	75	6.37 D	5.94	43.35 UJ	43.35 UJ	6.2	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	-	-	11.2	13.5	50	52.1	13	19.3	468 D	384	27.8 D	23.6	86.71 UJ	77.17 J	27.66	
o-Xylene	NA	NA	NA	NA	NA	NA	-	-	4.69	5.73	19	19.7	5	5.82	193	170	10.49 D	8.84	43.35 UJ	43.35 UJ	10.32	
Toluene	NA	NA	NA	NA	NA	NA	-	-	5.43	5.43	40.3	42.2	4.33	8.78	5.95	6.85	30.8 D	31.5	37.63 UJ	37.63 UJ	37.18	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	15.9	19.2	69.1	71.7	18.1	25.1	-	-	-	-	-	-	-	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR6A												Building TR7A			
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR6A-IA-1AI 03/13/2018 Duplicate	TR6A-SSV-1AS 03/30/2021 Field Sample	TR6A-IA-1AI 03/30/2021 Field Sample	TR6A-SSV-1AS 12/08/2021 Field Sample	TR6A-SSV-1AS 12/08/2021 Duplicate	TR6A-IA-1AI 12/08/2021 Field Sample	TR6A-IA-1AI 12/08/2021 Duplicate	TR6A-SSV-2AS 12/08/2021 Field Sample	TR6A-IA-2AI 12/08/2021 Field Sample	TR6A-SSV-1AS 12/20/2022 Field Sample	TR6A-IA-1AI 12/20/2022 Field Sample	TR7A-SSV-1AS 12/08/2017 Field Sample	TR7A-IA-1AI 12/08/2017 Field Sample	TR7A-SSV-1AS 03/08/2018 Field Sample	TR7A-IA-1AI 03/08/2018 Field Sample	
							SC44770-04 Indoor Air	L2116079-01 SC42329-05 SC44770-01 Subslab Vapor	L2116079-02 SC42329-07 SC44770-03 Indoor Air	L2167799-07 Subslab Vapor	L2167799-08 Subslab Vapor	L2167799-09 Indoor Air	L2167799-10 Indoor Air	L2167799-11 Subslab Vapor	L2167799-12 Indoor Air	L2271728-07 Subslab Vapor	L2271728-08 Indoor Air	SC44641-16 Subslab Vapor	SC44641-17 Indoor Air	SC44641-16 Subslab Vapor	SC44641-17 Indoor Air	
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3																
Chlorinated VOCs Matrix A																						
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.08 U	0.095	0.079 U	0.283 U	0.283 U	0.079 U	0.079 U	0.079 U	0.079 U	0.206	0.079 U	9.92 U	0.08 U	1.98 U	0.08 U	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.4 U	0.234	0.079 U	0.283 U	0.283 U	0.079 U	0.079 U	0.079 U	0.079 U	0.159 U	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.19	33.8	0.403	21.8	20.4	0.421	0.447	2.98	0.39	32.	0.478	15.73 U	0.3	3.15 U	0.25	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.16	11.6	0.107 U	10.3	9.89	0.107 U	0.124	4.97	0.107 U	11.6	0.107	21	0.42	2.69 U	0.05 J	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	2.46	889 D	0.169	633	589	0.109 U	0.109 U	23.9	0.109 U	878.	0.109 U	23.6	0.55 U	27.77	0.55 U	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.68	119	0.264	325	311	0.217	0.217	2.1	0.21	301.	0.197	16.95 U	0.26	5.29 J-	0.07 J	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.56	1.74 U	1.74 U	6.18 U	6.18 U	1.74 U	1.74 U	3.58	1.74 U	3.47 U	1.74 U	8.68 U	0.73	1.74 U	0.59	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.05 U	0.051 U	0.051 U	0.183 U	0.183 U	0.051 U	0.051 U	0.084	0.051 U	0.102 U	0.051 U	6.39 U	0.05 U	1.28 U	0.05 U	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.08 U	0.231	0.081 U	0.289 U	0.289 U	0.081 U	0.081 U	0.081 U	0.081 U	0.162 U	0.081 U	10.12 U	0.08 U	2.02 U	0.08 U	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.4 U	0.079 U	0.079 U	0.283 U	0.283 U	0.079 U	0.079 U	0.079 U	0.079 U	0.159 U	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	6.6	-	-	1.14 U	1.14 U	0.39	0.412	4.22	0.351	0.639 U	0.345	7.98 U	0.54	1.6 U	0.38	
Ethylbenzene	NA	NA	NA	NA	NA	NA	6.63	-	-	1.39	1.29	2.25	2.08	3.57	0.986	1.36	0.864	10.84 U	1.34	1.83 J	0.43 U	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	28.44	-	-	5.13	4.65	9.12	8.3	14.3	4.07	5.3	3.39	23.2	5.03	5.46	1.17	
o-Xylene	NA	NA	NA	NA	NA	NA	10.53	-	-	2.44	2.31	3.92	3.62	6.17	1.72	2.26	1.38	10.84 U	2.39	2.17 U	0.74	
Toluene	NA	NA	NA	NA	NA	NA	33.3	-	-	1.42	1.35 U	2.47	2.25	9.91	0.946	2.33	0.663	9.41 U	1.35	1.99 J-	0.49 J	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	7.56	6.95	13	11.9	20.5	5.78	7.56	4.78	-	-	-	-	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR7A														
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7A-SSV-1AS 04/02/2021 Field Sample	TR7A-IA-1AI 04/02/2021 Field Sample	TR7A-SSV-1AS 12/07/2021 Field Sample	TR7A-IA-1AI 12/07/2021 Field Sample	TR7A-SSV-1AS 12/19/2022 Field Sample	TR7A-IA-1AI 12/19/2022 Field Sample	TR7A-SSV-2AS 12/08/2017 Field Sample	TR7A-IA-2AI 12/08/2017 Field Sample	TR7A-SSV-2AS 03/08/2018 Field Sample	TR7A-IA-2AI 03/08/2018 Field Sample	TR7A-SSV-2AS 04/02/2021 Field Sample	TR7A-IA-2AI 04/02/2021 Field Sample	TR7A-SSV-2AS 12/07/2021 Field Sample	TR7A-IA-2AI 12/07/2021 Field Sample	TR7A-SSV-2AS 12/19/2022 Field Sample
							L2116861-15 SC42337-07 SC44641-16	L2116861-16 SC42337-08 SC44641-17	L2167437-13	L2167437-14	L2271721-13	L2271721-14	L2116861-17 SC42337-09 SC44641-18	L2116861-18 SC42337-10 SC44641-19	L2116861-17 SC42337-09 SC44641-18	L2116861-18 SC42337-10 SC44641-19	L2116861-17 SC42337-09 SC44641-18	L2116861-18 SC42337-10 SC44641-19	L2167437-15	L2167437-16	L2271721-15
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
Chlorinated VOCs Matrix A																					
1,1-Dichloroethane	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U	1.98 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	0.079	0.079 U	0.115	0.079 U	4.48
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.264	0.421	0.346	0.535	0.189	0.484	15.73 U	0.31	3.15 U	0.25	0.453	0.465	0.528	0.56	0.522
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.215	0.107 U	0.204	0.107 U	0.204	0.107 U	100	0.11 U	182.72 J	0.05 J	8.92	0.107 U	25.3	0.107 U	50.7
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	11.5	0.109 U	10.7	0.109 U	17.8	0.109 U	74.2	0.55 U	45.78	0.55 U	12.1	0.109 U	21.2	0.109 U	87.3
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.448	0.136 U	0.448	0.136 U	0.522	0.136 U	16.95 U	0.07 J	6.05	0.14	0.319	0.136 U	0.793	0.136 U	1.5
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	2.8	1.74 U	1.74 U	1.74 U	8.68 U	3.85	1.74 U	0.35 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.107	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	6.39 U	0.05 U	1.28 U	0.05 U	0.059	0.051 U	0.051 U	0.051 U	0.051 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	10.12 U	0.08 U	2.02 U	0.08 U	0.081 U	0.081 U	0.101	0.081 U	2.23
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	0.079 U	0.079 U	0.079 U	0.079 U	0.329
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	-	-	0.406	0.319 U	0.319 U	0.399	7.98 U	0.71	1.6 U	0.57	-	-	0.335	0.319 U	0.332
Ethylbenzene	NA	NA	NA	NA	NA	NA	-	-	2.05	0.122	1.84	0.139	51.6	0.43 U	20.07	0.43 U	-	-	2.35	0.13	1.25
m,p-Xylenes	NA	NA	NA	NA	NA	NA	-	-	6.99	0.4	5.82	0.4	156	0.87 U	59.83	0.87 U	-	-	10.8	0.421	5.13
o-Xylene	NA	NA	NA	NA	NA	NA	-	-	2.7	0.169	2.42	0.182	24.2	0.43 U	10.67	0.26 J	-	-	3.82	0.187	2.18
Toluene	NA	NA	NA	NA	NA	NA	-	-	4.71	0.52	2.59	0.614	9.14 J	0.71	3.17	0.38 UJ	-	-	4.79	0.49	2.63
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	9.69	0.569	8.25	0.582	-	-	-	-	-	-	14.6	0.608	7.3

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR7A	Building TR7																		
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7A-IA-2AI 12/19/2022 Field Sample	TR7-SSV-1AS 12/08/2017 Field Sample	TR7-IA-1AI 12/08/2017 Field Sample	TR7-SSV-1AS 03/08/2018 Field Sample	TR7-IA-1AI 03/08/2018 Field Sample	TR7-SSV-1AS 04/02/2021 Field Sample	TR7-SSV-1AS 04/02/2021 Duplicate	TR7-IA-1AI 04/02/2021 Field Sample	TR7-IA-1AI 04/02/2021 Duplicate	TR7-SSV-1AS 12/07/2021 Field Sample	TR7-IA-1AI 12/07/2021 Field Sample	TR7-SSV-1AS 12/19/2022 Field Sample	TR7-IA-1AI 12/19/2022 Field Sample	TR7-SSV-2AS 12/08/2017 Field Sample	TR7-IA-2AI 12/08/2017 Field Sample					
							Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	L2271721-16 Indoor Air	L2116861-01 SC42337-01 Subslab Vapor	L2116861-03 SC42337-02 Indoor Air	L2116861-01 SC42337-01 Subslab Vapor	L2116861-03 SC42337-02 Indoor Air	L2116861-01 SC42337-01 Subslab Vapor	L2116861-02 Subslab Vapor	L2116861-03 SC44641-06 Indoor Air	L2116861-04 Indoor Air	L2167437-01 Subslab Vapor	L2167437-02 Indoor Air	L2271721-01 Subslab Vapor	L2271721-02 Indoor Air	L2116861-05 SC42337-05 Subslab Vapor
Chlorinated VOCs Matrix A																										
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	9.92 U	0.08 UJ	1.98 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U					
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	22.84	0.4 UJ	44.81	0.4 U	1.19	1.53	0.079 U	0.079 U	0.404	0.21	21.6	0.289	9.91 U	0.4 U					
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.453	15.73 U	0.29 J	3.15 U	0.31	0.465	0.51	0.465	0.472	0.648	0.541	0.616	0.528	15.73 U	0.16					
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	105 J-	0.22 J	242.92 J	0.27	14.3	18.6	0.242	0.226	10	0.473	45	0.623	20.4 J-	0.22					
Matrix B																										
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	21.3	0.55 UJ	16.2	0.55 U	6.87	8.73	0.109 U	0.109 U	4.91	0.109 U	12.5	0.109 U	27	0.55 U					
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	16.95 U	0.09 J	8.27	0.07 J	0.834	1.04	0.136 U	0.149	0.895	0.136 U	1.34	0.136 U	16.95 U	0.1 J					
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	8.68 U	1.61 J	1.74 U	0.66	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	8.68 U	0.47					
Matrix C																										
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	6.39 U	0.05 UJ	1.28 U	0.05 U	0.079	0.079	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	6.39 U	0.05 U					
Other																										
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	8.99	0.08 UJ	19.72	0.04 J	3.14	3.99	0.081	0.081	0.793	0.13	14.2	0.109	10.12 U	0.03 J					
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	9.91 U	0.4 UJ	1.98 U	0.4 U	0.079 U	0.083	0.079 U	0.079 U	0.079 U	0.079 U	0.63	0.079 U	9.91 U	0.4 U					
Non-Chlorinated VOCs																										
Benzene	NA	NA	NA	NA	NA	NA	0.403	7.91	0.74 J	1.6 U	0.8	-	-	-	-	2.74	0.319 U	2.38	0.431	7.98 U	0.88					
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.182	10.84 U	1.45 J	10.06	0.43	-	-	-	-	5.82	0.139	4.07	0.161	1220 D	0.59					
m,p-Xylenes	NA	NA	NA	NA	NA	NA	0.573	22.7	4.19 J	32	1.6	-	-	-	-	21.2	0.417	12.9	0.491	6330 D	2.34					
o-Xylene	NA	NA	NA	NA	NA	NA	0.278	15.43	1.54 J	31.65	0.87	-	-	-	-	12	0.182	8	0.243	3050 D	1.01					
Toluene	NA	NA	NA	NA	NA	NA	0.886	19.4 J-	2.42 J	53.06	1.47	-	-	-	-	16	0.482	8	0.584	17.2 J-	1.77					
Xylene (total)	NA	NA	NA	NA	NA	NA	0.851	-	-	-	-	-	-	-	-	33.2	0.599	20.8	0.734	-	-					

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR7															
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7-SSV-2AS 03/08/2018 Field Sample	TR7-IA-2AI 03/08/2018 Field Sample	TR7-SSV-2AS 04/02/2021 Field Sample	TR7-IA-2AI 04/02/2021 Field Sample	TR7-SSV-2AS 12/07/2021 Field Sample	TR7-IA-2AI 12/07/2021 Field Sample	TR7-SSV-2AS 12/19/2022 Field Sample	TR7-IA-2AI 12/19/2022 Field Sample	TR7-SSV-3AS 12/08/2017 Field Sample	TR7-IA-3AI 12/08/2017 Field Sample	TR7-SSV-3AS 03/08/2018 Field Sample	TR7-IA-3AI 03/08/2018 Field Sample	TR7-SSV-3AS 01/15/2019 Field Sample	TR7-IA-3AI 01/15/2019 Field Sample	TR7-SSV-3AS 04/02/2021 Field Sample	
							L2116861-05 SC42337-05 SC44641-07	L2116861-06 SC42337-06 SC44641-08	L2116861-05 SC42337-05 SC44641-07	L2116861-06 SC42337-06 SC44641-08	L2167437-05 Subslab Vapor	L2167437-06 Indoor Air	L2271721-03 Subslab Vapor	L2271721-04 Indoor Air	L2116861-07 1901332-05B L2116861-07 SC42337-03	L2116861-08 1901332-06B L2116861-08 SC42337-04	L2116861-07 1901332-05B SC42337-03	L2116861-08 1901332-06B SC42337-04	L2116861-07 1901332-05B SC44641-14	L2116861-08 1901332-06B SC44641-15	L2116861-07 1901332-05B SC44641-14	L2116861-08 1901332-06B SC44641-15
							Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
	Chlorinated VOCs Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	1.98 U	0.08 U	0.079	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U	1.98 U	0.08 U	0.1	0.065 U	0.085 U	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	1.98 U	0.4 U	0.127	0.079 U	0.079 U	0.123	0.079 U	0.246	9.91 U	0.4 U	1.98 U	0.4 U	0.48	0.16	0.476	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	3.15 U	0.25	0.843	0.44	0.887	0.579	0.692	0.497	15.73 U	0.23	3.15 U	0.19	0.31	0.41	0.495	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	14.51 J-	0.16	12.1	0.231	8.76	0.29	9.24	0.591	25.2 J-	2.08	13.11 J-	2.53	80	1.1	9.19	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	20.13 J-	0.55 U	14.3	0.109 U	14.8	0.109 U	15.6	0.109 U	13.64 U	0.55 U	1.52 J	0.55 U	1.3	0.034 J	2.09	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	3.12 J-	0.14 U	2.03	0.136 U	0.583	0.136 U	0.495	0.136 U	16.95 U	0.09 J	3.39 U	0.2	0.42	0.097 J	0.498	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	0.52	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	8.68 U	0.43	1.74 U	0.59	2.4 U	1.1 U	1.85 U	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	1.28 U	0.05 U	0.141	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	6.39 U	0.05 U	1.28 U	0.05 U	0.53	0.024 J	0.139	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	1.66 J-	0.08 U	1.27	0.081 U	0.664	0.089	0.935	0.101	10.12 U	0.08 U	2.02 U	0.08 U	0.34	0.036 J	1.31	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	1.98 U	0.4 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	0.67 U	0.65 U	0.085 U	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	1.6 U	0.61	-	-	0.78	0.319 U	0.802	0.415	7.98 U	0.94	1.6 U	0.54	3	2.5	-	
Ethylbenzene	NA	NA	NA	NA	NA	NA	494.23 D	0.43 U	-	-	73	0.113	98	0.169	10.84 U	0.68	2.17 U	0.43 U	2.2	1.5	-	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	2150.35 D	1.13	-	-	230	0.321	270	0.521	31.1	2.53	7.98	0.87 U	11	5.7	-	
o-Xylene	NA	NA	NA	NA	NA	NA	1088.18 D	0.39 J	-	-	140	0.13	200	0.269	11.8	1.08	3.5	0.3 J	4.5	1.9	-	
Toluene	NA	NA	NA	NA	NA	NA	18.59 J-	1.09	-	-	10.3	0.494	4.79	1.21	24.6 J-	2.21	4.4 J-	1.09 J	9.8	9.9	-	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	-	370	0.452	469	0.791	-	-	-	-	-	-	-	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR7															
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7-IA-3AI 04/02/2021 Field Sample 1901332-06B L2116861-08 SC42337-04 SC44641-15 Indoor Air	TR7-SSV-3AS 12/07/2021 Field Sample L2167437-11 Subslab Vapor	TR7-IA-3AI 12/07/2021 Field Sample L2167437-12 Indoor Air	TR7-SSV-3AS 12/19/2022 Field Sample L2271721-05 Subslab Vapor	TR7-IA-3AI 12/19/2022 Field Sample L2271721-06 Indoor Air	TR7-SSV-4AS 03/08/2018 Field Sample L2116861-09 SC44641-01 Subslab Vapor	TR7-SSV-4AS 03/08/2018 Duplicate SC44641-02 Subslab Vapor	TR7-IA-4AI 03/08/2018 Field Sample L2116861-10 SC44641-03 Indoor Air	TR7-IA-4AI 03/08/2018 Duplicate SC44641-04 Indoor Air	TR7-SSV-4AS 04/02/2021 Field Sample L2116861-09 SC44641-01 Subslab Vapor	TR7-IA-4AI 04/02/2021 Field Sample L2116861-10 SC44641-03 Indoor Air	TR7-SSV-4AS 12/07/2021 Field Sample L2167437-03 Subslab Vapor	TR7-IA-4AI 12/07/2021 Field Sample L2167437-04 Indoor Air	TR7-SSV-4AS 12/19/2022 Field Sample L2271721-07 Subslab Vapor	TR7-SSV-4AS 12/19/2022 Duplicate L2271721-18 Subslab Vapor	
Range 1	Range 2	Range 3	Range 1	Range 2	Range 3																	
Chlorinated VOCs Matrix A																						
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	1.98 U	1.98 U	0.08 U	0.08 U	0.496	0.079 U	0.472	0.079 U	0.678	0.722	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.115	0.17	0.238	0.206	70.58	1.98 U	0.4 U	0.4 U	8.76	0.083	14.5	0.178	47.6	52.7	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.421	0.648	0.522	0.535	0.453	3.15 U	3.15 U	0.31	0.31	0.491	0.447	0.654	0.516	0.579	0.522	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.247	2.29	0.339	4.11	0.473	180.04 J	2.69 UJ	0.32	0.38	52	0.296	40.9	0.425	81.7	91.9	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	0.502	0.109 U	0.747	0.109 U	7.42	2.73 U	0.55 U	0.55 U	4.45	0.109 U	5.78	0.109 U	6.06	6.06	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	0.183	0.136 U	0.427	0.136 U	6.58	3.39 U	0.07 J	0.14	1.79	0.136 U	1.26	0.136 U	1.7	2.	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	0.66 J	2.19 J	1.74 U	1.74 U	2.16	1.74 U	1.74 U	1.74 U	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	1.1 J	1.28 U	0.05 U	0.05 U	0.291	0.051 U	0.565	0.051 U	0.629	0.772	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.089	0.097	0.194	0.093	25.63	2.02 U	0.04 J	0.08 U	11.9	0.089	14.1	0.117	17.4	18.7	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	1.63 J	1.98 U	0.4 U	0.4 U	0.337	0.079 U	0.285	0.079 U	0.936	1.05	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	-	0.559	0.319 U	0.441	0.412	1.6 U	1.6 U	0.7	0.77	-	-	0.85	0.319 U	0.428	0.419	
Ethylbenzene	NA	NA	NA	NA	NA	NA	-	3.03	0.104	2.02	0.165	5.51	2.17 U	0.39 J	0.43	-	-	5.43	0.1	2.19	2.86	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	-	11.8	0.308	8.08	0.521	15.17	4.34 U	1.47	1.86	-	-	20.8	0.317	8.82	10.7	
o-Xylene	NA	NA	NA	NA	NA	NA	-	4.73	0.139	3.58	0.256	8.41	2.17 U	0.78	1	-	-	10.7	0.13	6.52	7.17	
Toluene	NA	NA	NA	NA	NA	NA	-	7.31	0.418	3.99	0.584	11.18	1.88 U	1.39	1.77	-	-	10.6	0.445	3.13	3.63	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	16.6	0.447	11.7	0.777	-	-	-	-	-	-	31.6	0.447	15.3	17.9	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR7														
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7-IA-4AI 12/19/2022 Field Sample	TR7-IA-4AI 12/19/2022 Duplicate	TR7-SSV-5AS 03/08/2018 Field Sample	TR7-IA-5AI 03/08/2018 Field Sample	TR7-SSV-5AS 04/02/2021 Field Sample	TR7-IA-5AI 04/02/2021 Field Sample	TR7-SSV-5AS 12/07/2021 Field Sample	TR7-IA-5AI 12/07/2021 Field Sample	TR7-SSV-5AS 12/19/2022 Field Sample	TR7-IA-5AI 12/19/2022 Field Sample	TR7-SSV-6AS 03/08/2018 Field Sample	TR7-IA-6AI 03/08/2018 Field Sample	TR7-SSV-6AS 04/02/2021 Field Sample	TR7-IA-6AI 04/02/2021 Field Sample	TR7-SSV-6AS 12/07/2021 Field Sample
							L2271721-08 Indoor Air	L2271721-19 Indoor Air	L2116861-11 SC44641-09 Subslab Vapor	L2116861-12 SC44641-10 Indoor Air	L2116861-11 SC44641-09 Subslab Vapor	L2116861-12 SC44641-10 Indoor Air	L2167437-09 Subslab Vapor	L2167437-10 Indoor Air	L2271721-09 Subslab Vapor	L2271721-10 Indoor Air	L2116861-13 SC44641-12 Subslab Vapor	L2116861-14 SC44641-13 Indoor Air	L2116861-13 SC44641-12 Subslab Vapor	L2116861-14 SC44641-13 Indoor Air	L2167437-07 Subslab Vapor
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3															
Chlorinated VOCs Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	1.98 U	0.08 U	0.094 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	1.98 U	0.08 U	0.085 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.293	0.341	1.98 U	0.4 U	0.288	0.079 U	0.079 U	0.167	0.17	0.242	1.98 U	0.4 U	0.093	0.079 U	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.472	0.428	3.15 U	0.25	0.509	0.453	0.679	0.566	0.547	0.453	3.15 U	0.19	0.944	0.415	1.01
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.666	0.779	10.1 J	0.38	8.55	0.258	2.13	0.408	3.44	0.527	52.13 J	0.32	12.2	0.274	8.71
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	0.109 U	4.46	0.55 U	4.03	0.109 U	2.51	0.109 U	2.52	0.109 U	6.87	0.55 U	4.1	0.109 U	2.85
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	0.136 U	114.6	0.41	0.395	0.136 U	0.292	0.136 U	0.346	0.136 U	4.31	0.07 J	0.289	0.136 U	0.325
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	0.35 U	2.07 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	34.65	1.85 U	1.74 U	1.74 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	1.28 U	0.05 U	0.116	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	1.28 U	0.05 U	0.093	0.051 U	0.051 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.117	0.146	2.02 U	0.08 U	0.274	0.081 U	0.093	0.093	0.182	0.093	2.02 U	0.08 U	0.232	0.081 U	0.154
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	1.98 U	0.4 U	0.094 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	1.98 U	0.4 U	0.085 U	0.079 U	0.079 U
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	0.428	0.47	1.6 U	0.77	-	-	0.815	0.319 U	0.383	0.383	1.6 U	1.02	-	-	0.684
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.161 J	1.31 J	2.17 U	0.43 U	-	-	5.34	0.1	1.98	0.143	17.12	1.52	-	-	5.6
m,p-Xylenes	NA	NA	NA	NA	NA	NA	0.482 J	0.699 J	7.59	1.17	-	-	20.9	0.3	8.47	0.443	70.67	6.85	-	-	21.7
o-Xylene	NA	NA	NA	NA	NA	NA	0.235	0.308	2.81	0.52	-	-	8.38	0.126	3.55	0.213	28.27	1.91	-	-	9.64
Toluene	NA	NA	NA	NA	NA	NA	0.584	0.757	5.31	1.09	-	-	13	0.441	4	0.569	42.52	9.03	-	-	9.57
Xylene (total)	NA	NA	NA	NA	NA	NA	0.717	1.01	-	-	-	-	29.3	0.426	12.	0.656	-	-	-	-	31.4

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR7			Building TR12											
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR7-IA-6AI 12/07/2021 Field Sample	TR7-SSV-6AS 12/19/2022 Field Sample	TR7-IA-6AI 12/19/2022 Field Sample	TR12-SSV-1AS 12/11/2017 Field Sample	TR12-IA-1AI 12/11/2017 Field Sample	TR12-SSV-1AS 03/13/2018 Field Sample	TR12-IA-1AI 03/13/2018 Field Sample	TR12-SSV-1AS 03/30/2021 Field Sample	TR12-IA-1AI 03/30/2021 Field Sample	TR12-SSV-1AS 12/09/2021 Field Sample	TR12-IA-1AI 12/09/2021 Field Sample	TR12-SSV-1AS 12/20/2022 Field Sample	TR12-IA-1AI 12/20/2022 Field Sample	TR12-IA-2 12/09/2021 Field Sample	TR12-IA-3 12/09/2021 Field Sample
							L2167437-08 Indoor Air	L2271721-11 Subslab Vapor	L2271721-12 Indoor Air	L2116079-04 SC42329-13 SC44770-07 Subslab Vapor	L2116079-05 SC42329-14 SC44770-08 Indoor Air	L2116079-04 SC42329-13 SC44770-07 Subslab Vapor	L2116079-05 SC42329-14 SC44770-08 Indoor Air	L2116079-04 SC42329-13 SC44770-07 Subslab Vapor	L2116079-05 SC42329-14 Indoor Air	L2168305-01 Subslab Vapor	L2168305-02 Indoor Air	L2271728-10 Subslab Vapor	L2271728-11 Indoor Air	L2168305-03 Indoor Air	L2168305-04 Indoor Air
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3															
Chlorinated VOCs Matrix A																					
1,1-Dichloroethane	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U	1.98 U	0.08 UJ	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.163	0.103	0.234	126	0.34 J	85.25 J	0.66 J+	37.9	0.583	30.9	0.25	31.1	0.519	0.27	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.629	0.761	0.535	15.73 U	0.24	3.15 UJ	0.25	0.805	0.403	0.761	0.598	0.906	0.541	0.535	0.516
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.382	5.64	0.693	790	0.4	580.42 D	0.5	171	0.505	218	0.371	181	0.661	0.376	0.107 U
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	1.74	0.109 U	15.4	0.5 J	15.82	4.58 J+	7.37	0.464	6.77	7.2	8.89	1.04	0.573	0.218
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.136 U	0.163	0.136 U	12.5 J	0.14 U	14.04	0.33	4.88	0.264	11.2	0.583	8.34	0.21	0.353	0.509
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	8.68 U	0.61	1.74 U	0.35 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	6.39 U	0.03 J	1.28 UJ	0.05 U	0.051 U	0.051	0.051 U	0.051 U	0.051 U	0.087	0.051 U	0.051 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.097	0.138	0.097	22.4	0.08 U	18.5	0.08 U	4.45	0.081 U	8.62	0.081 U	8.94	0.089	0.081 U	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	9.91 U	0.4 U	2 J	-	0.622	0.079 U	0.626	0.079 U	0.781	0.079 U	0.079 U	0.079 U
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	0.319 U	0.658	0.415	7.98 U	1.13	1.63 J	1.15 J+	-	-	0.607	1.35	0.719	2.88	1.06	0.99
Ethylbenzene	NA	NA	NA	NA	NA	NA	0.091	2.69	0.226	10.84 U	2.58	14.57 J	0.44 J	-	-	5.34	1.51	2.58	2.08	1.27	0.721
m,p-Xylenes	NA	NA	NA	NA	NA	NA	0.278	10.7	0.743	43.8	6.94	80.64 J	1.48 J	-	-	26.5	5.69	10.9	7.99	4.78	2.36
o-Xylene	NA	NA	NA	NA	NA	NA	0.122	4.86	0.347	27.9	2.45	60.7 J	0.58	-	-	18	1.93	6	2.78	1.61	0.843
Toluene	NA	NA	NA	NA	NA	NA	0.513	5.8	0.886	9.41 U	6.28	5.04 J	3.91	-	-	5.8	11.3	5.35	15.	12.4	4.97
Xylene (total)	NA	NA	NA	NA	NA	NA	0.4	15.6	1.09	-	-	-	-	-	-	44.3	7.64	16.7	10.8	6.39	3.21

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR19														
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR19-SSV-1AS 12/05/2017 Field Sample	TR19-IA-1AI 12/05/2017 Field Sample	TR19-SSV-1AS 03/07/2018 Field Sample	TR19-IA-1AI 03/07/2018 Field Sample	TR19-IA-1AI 03/31/2021 Field Sample	TR19-SSV-1AS 12/17/2021 Field Sample	TR19-IA-1AI 12/17/2021 Field Sample	TR19-SSV-2AS 12/05/2017 Field Sample	TR19-IA-2AI 12/05/2017 Field Sample	TR19-SSV-2AS 03/07/2018 Field Sample	TR19-IA-2AI 03/07/2018 Field Sample	TR19-SSV-2AS 01/16/2019 Field Sample	TR19-IA-2AI 01/16/2019 Field Sample	TR19-SSV-2AS 03/31/2021 Field Sample	TR19-IA-2AI 03/31/2021 Field Sample
							SC42209-01 SC44597-01	L2116379-15 SC42209-02 SC44597-02	SC42209-01 SC44597-01	SC42209-02 SC44597-02	SC42209-02 SC44597-02			1901335-01B L2116379-03 SC42209-03	1901335-02B L2116379-04 SC42209-04	1901335-01B L2116379-03 SC42209-03	1901335-02B L2116379-04 SC42209-04	1901335-01B L2116379-03 SC42209-03	1901335-02B L2116379-04 SC42209-04	1901335-01B L2116379-03 SC42209-03	1901335-02B L2116379-04 SC42209-04
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air
Chlorinated VOCs Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	9.92 U	0.08 U	1.98 U	0.08 U	0.079 U	0.079 U	0.079 U	20.83 U	0.08 U	1.98 U	0.08 U	0.63 U	0.061 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	9.91 U	0.4 U	1.98 U	0.4 UJ	0.079 U	0.079 U	0.079 U	20.82 U	0.4 U	1.98 U	0.4 UJ	1.2 U	0.12 U	0.079 U	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	15.73 U	0.27	3.15 U	0.19	0.359	0.214	0.623	33.02 U	0.26	3.15 U	0.25	2 U	0.41	0.208	0.377
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	13.44 U	0.11 U	2.42 J-	0.11 U	0.107 U	6.34	0.107 U	28.21 U	1.54	2.42 J	0.16	0.79 J	0.08 J	0.339	0.107 U
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	8.78 J	0.55 U	9.33	0.55 U	0.109 U	4.2	0.109 U	28.64 U	0.55 U	2.73 U	0.55 U	0.27 J	0.024 J	0.207	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	16.95 U	0.14 U	3.39 U	0.54 U	0.814	0.8	0.278	35.6 U	0.25	2.37 J	0.61	1.4 J	0.7	1.4	2.05
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	8.68 U	0.47	1.74 U	3.19	1.74 U	1.74 U	1.74 U	18.23 U	0.42	2.19	0.87	11 U	1.1 U	1.74 U	1.74 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	6.39 U	0.05 U	1.28 U	0.05 U	0.051 U	0.072	0.051 U	13.42 U	0.05 U	1.28 U	0.05 U	0.68 J	0.079 U	0.125	0.051 U
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	10.12 U	0.08 U	2.02 U	0.08 U	0.081 U	0.081 U	0.081 U	21.26 U	0.08 U	2.02 U	0.08 U	0.16 J	0.12 U	0.081 U	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	9.91 U	0.4 U	1.98 U	0.4 U	0.079 U	0.079 U	0.079 U	20.82 U	0.4 U	1.98 U	0.4 U	6.3 U	0.053 J	0.151	0.079
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	7.98 U	0.53	1.6 U	0.7	-	0.498	0.524	16.75 U	1.23	1.6 U	1.85	2.9	2	-	-
Ethylbenzene	NA	NA	NA	NA	NA	NA	10.84 U	0.42 J	2.17 U	0.43 U	-	4.18	0.547	22.76 U	1.05	2.17 U	1.34	3.8	2.4	-	-
m,p-Xylenes	NA	NA	NA	NA	NA	NA	21.68 U	0.95	4.34 U	1.04 J	-	19.5	2.34	45.52 U	4.64	6.33	6.03 J	16	8.7	-	-
o-Xylene	NA	NA	NA	NA	NA	NA	10.84 U	0.33 J	2.17 U	0.56	-	7.12	0.869	22.76 U	2.15	4.12	2.82	6.7	3.3	-	-
Toluene	NA	NA	NA	NA	NA	NA	9.41 U	0.99	2.14 J-	1.17 J	-	5.2	1.1	19.75 U	3.36	1.77 J	4.33 J	13	20	-	-
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	-	-	26.6	3.21	-	-	-	-	-	-	-	-

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR19																	
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR19-SSV-2AS 12/17/2021 Field Sample	TR19-IA-2AI 12/17/2021 Field Sample	TR19-SSV-3AS 12/05/2017 Field Sample	TR19-SSV-3AS 12/05/2017 Duplicate	TR19-IA-3AI 12/05/2017 Field Sample	TR19-IA-3AI 12/05/2017 Duplicate	TR19-SSV-3AS 03/07/2018 Field Sample	TR19-IA-3AI 03/07/2018 Field Sample	TR19-SSV-3AS 03/31/2021 Field Sample	TR19-IA-3AI 03/31/2021 Field Sample	TR19-SSV-3AS 12/17/2021 Field Sample	TR19-IA-3AI 12/17/2021 Field Sample	TR19-SSV-4AS 12/05/2017 Field Sample	TR19-IA-4AI 12/05/2017 Field Sample	TR19-SSV-4AS 03/07/2018 Field Sample			
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	L2169938-05 Subslab Vapor	L2169938-06 Indoor Air	L2116379-11 SC42209-05 Subslab Vapor	SC44597-07 Subslab Vapor	L2116379-12 SC42209-07 Indoor Air	SC44597-08 Indoor Air	SC42209-08 Indoor Air	SC44597-07 Subslab Vapor	SC44597-08 Indoor Air	SC44597-07 Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	L2169938-13 Subslab Vapor	L2169938-14 Indoor Air	SC44597-11 Subslab Vapor	SC44597-12 Indoor Air
Chlorinated VOCs Matrix A																								
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	9.92 U	9.92 U	0.08 U	0.14 U	1.98 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U	2.14			
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	9.91 U	9.91 U	0.4 U	0.69 U	1.98 U	0.4 U	0.079 U	0.079 U	0.079 U	0.079 U	274	0.4 U	463.93 D			
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.126 U	0.604	15.73 U	15.73 U	0.15 J	0.28 J	3.15 U	0.19	0.27	0.415	0.377	0.579	15.73 U	0.29	3.15 U			
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.306	0.107 U	25.96	26.12	0.11 U	0.19 U	69.33 J	0.11 U	18.3	0.107 U	15.3	0.107 U	221.42	0.11 U	254.2 DJ			
Matrix B																								
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	0.109 U	13.64 U	13.64 U	0.55 U	0.95 U	2.73	0.55 U	1.12	0.109 U	1.08	0.109 U	13.64 U	0.55 U	2.73 U			
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.14	0.149	16.95 U	16.95 U	0.14 U	0.49	10.65	0.14	0.658	0.258	0.407	0.136 U	23.46	0.14 U	48.15			
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	8.68 U	8.68 U	0.48 J	1.53 J	1.7 J	0.44	1.74 U	1.74 U	1.74 U	1.74 U	8.68 U	0.32 J	1.74 U			
Matrix C																								
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	6.39 U	6.39 U	0.05 U	0.09 U	1.28 U	0.05 U	0.11	0.051 U	0.051 U	0.051 U	6.21 J	0.05 U	11.43			
Other																								
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	10.12 U	10.12 U	0.08 U	0.14 U	2.02 U	0.08 U	0.081 U	0.081 U	0.081 U	0.081 U	10.12 U	0.08 U	2.02 U			
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	9.91 U	9.91 U	0.4 U	0.69 U	1.98 U	0.4 U	0.079 U	0.079 U	0.079 U	0.079 U	44.01	0.4 U	93.58			
Non-Chlorinated VOCs																								
Benzene	NA	NA	NA	NA	NA	NA	0.39	0.843	7.98 U	7.98 U	0.36	0.43 J	37.01	0.62	-	-	0.319 U	0.399	7.98 U	1.21	1.6 U			
Ethylbenzene	NA	NA	NA	NA	NA	NA	4.33	2.52	10.1 J	11.97	1.66 J	0.76 UJ	11.49 J-	0.43 U	-	-	4.24	0.326	114.02	0.62	5.42			
m,p-Xylenes	NA	NA	NA	NA	NA	NA	16	9.9	76.74	71.97	4.81 J	1.52 UJ	52.02 J-	0.87 U	-	-	14.9	1.22	780.37	2.36	36.72			
o-Xylene	NA	NA	NA	NA	NA	NA	6.82	3.7	17.51	18.34	2.05 J	0.76 UJ	15.17 J-	0.43 UJ	-	-	6.99	0.452	550.59	1.3	27.83			
Toluene	NA	NA	NA	NA	NA	NA	6.18	2.62	9.41 U	9.41 U	4.03 J	0.56 J	194.91 D	0.33 J	-	-	5.28	0.633	14.19	2.64	1.99			
Xylene (total)	NA	NA	NA	NA	NA	NA	22.8	13.6	-	-	-	-	-	-	-	-	21.8	1.67	-	-	-			

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR19															
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR19-IA-4AI 03/07/2018 Field Sample 1901335-04B L2116379-10 SC42209-10 SC44597-12 Indoor Air	TR19-SSV-4AS 01/16/2019 Field Sample 1901335-03B L2116379-09 SC42209-09 SC44597-11 Subslab Vapor	TR19-IA-4AI 01/16/2019 Field Sample 1901335-04B L2116379-10 SC42209-10 SC44597-12 Indoor Air	TR19-SSV-4AS 03/31/2021 Field Sample 1901335-03B L2116379-09 SC42209-09 SC44597-11 Subslab Vapor	TR19-IA-4AI 03/31/2021 Field Sample 1901335-04B L2116379-10 SC42209-10 SC44597-12 Indoor Air	TR19-SSV-4AS 12/17/2021 Field Sample L2169938-07 Subslab Vapor	TR19-IA-4AI 12/17/2021 Field Sample L2169938-08 Indoor Air	TR19-SSV-4AS 12/22/2022 Field Sample L2272323-03 Subslab Vapor	TR19-SSV-4AS 12/22/2022 Duplicate L2272323-11 Subslab Vapor	TR19-IA-4AI 12/22/2022 Field Sample L2272323-14 Indoor Air	TR19-IA-4AI 12/22/2022 Duplicate L2272323-12 Indoor Air	TR19-SSV-5AS 12/05/2017 Field Sample L2116379-07 SC42209-11 SC44597-13 Subslab Vapor	TR19-IA-5AI 12/05/2017 Field Sample L2116379-08 SC42209-12 SC44597-14 Indoor Air	TR19-SSV-5AS 03/07/2018 Field Sample L2116379-07 SC42209-11 SC44597-13 Subslab Vapor	TR19-IA-5AI 03/07/2018 Field Sample L2116379-08 SC42209-12 SC44597-14 Indoor Air	
Range 1	Range 2	Range 3	Range 1	Range 2	Range 3																	
Chlorinated VOCs																						
Matrix A																						
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.08 U	0.55 J	0.059 U	0.702	0.079 U	0.369	0.079 U	0.293	0.278	0.079 U	0.079 U	9.92 U	0.08 U	1.98 U	0.08 U	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.4 U	100	0.12 U	253	0.079 U	169	0.079 U	193	186	0.079 U	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.25	1 U	0.41	0.161 U	0.39	0.258	0.61	0.22	0.233	0.421	0.51	15.73 U	0.38	3.15 U	0.19	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.05 J	110	0.047 J	178	0.107 U	112	0.107 U	111	111	0.107 U	0.107 U	13.44 U	0.53	2.69 U	0.11 U	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.55 U	0.2 J	0.16 U	0.496	0.109 U	0.409	0.109 U	0.344	0.366	0.109 U	0.109 U	13.64 U	0.65	2.73 U	0.55 U	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.07 J	17	0.099 J	26.2	6.18	30.8	0.136 U	16.7	19.1	0.136 U	0.136 U	16.95 U	0.08 J	3.39 U	0.14 U	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.59	5.7 U	1 U	2.23 U	1.74 U	1.74 U	1.74 U	8.06 J	2.48 UJ	1.74 U	1.74 U	8.68 U	0.58	1.74 U	1.81	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.05 U	3.7	0.077 U	6.7	0.051 U	3.76	0.051 U	4.22	3.27	0.051 U	0.051 U	6.39 U	0.05 U	1.28 U	0.05 U	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.08 U	0.13 J	0.12 U	0.14	0.081 U	0.081 U	0.081 U	0.081 U	0.116 U	0.081 U	0.081 U	10.12 U	0.29 J	2.02 U	0.08 U	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.4 U	24	0.59 U	40.4	0.079	29.5	0.095	34.6	33.	0.167 J	0.579 J	9.91 U	0.4 U	1.98 U	0.4 U	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	2.04	1.7	1.8	-	-	0.76	0.958	0.652	0.856	1.09	1.02	7.98 U	0.73	1.6 U	1.56	
Ethylbenzene	NA	NA	NA	NA	NA	NA	1.78	12	1.4	-	-	4.13	3.1	1.12 J	1.65 J	1.26	1.19	10.84 U	0.82	7.72	0.61	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	8.76	80	5.5	-	-	16.1	12.2	5.13	6.86	4.6	4.11	21.68 U	2.29	19.47	2.43	
o-Xylene	NA	NA	NA	NA	NA	NA	3.99 J	63	2.2	-	-	7.56	4.34	2.68	3.57	1.99	1.83	10.84 U	0.88	6.85	1.34 J	
Toluene	NA	NA	NA	NA	NA	NA	5.91 J	12	25	-	-	5.39	2.88	2.13	2.98	2.58	2.23	9.41 U	1.55	22.65	2.78 J	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	-	-	-	23.7	16.5	7.82	10.4	6.6	5.95	-	-	-	-	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR19														
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR19-SSV-5AS 03/31/2021 Field Sample	TR19-IA-5AI 03/31/2021 Field Sample	TR19-SSV-5AS 12/17/2021 Field Sample	TR19-IA-5AI 12/17/2021 Field Sample	TR19-SSV-5AS 12/22/2022 Field Sample	TR19-IA-5AI 12/22/2022 Field Sample	TR19-SSV-6AS 12/05/2017 Field Sample	TR19-IA-6AI 12/05/2017 Field Sample	TR19-SSV-6AS 03/07/2018 Field Sample	TR19-IA-6AI 03/07/2018 Field Sample	TR19-SSV-6AS 01/16/2019 Field Sample	TR19-SSV-6AS 01/16/2019 Duplicate	TR19-IA-6AI 01/16/2019 Field Sample	TR19-IA-6AI 01/16/2019 Duplicate	TR19-SSV-6AS 03/31/2021 Field Sample
							L2116379-07 SC42209-11 SC44597-13	L2116379-08 SC42209-12 SC44597-14	L2169938-11	L2169938-12	L2272323-05	L2272323-15	L2116379-05 1901335-05B L2116379-05 SC42209-13 SC44597-15	L2116379-06 1901335-07B L2116379-06 SC42209-14 SC44597-16	L2116379-05 1901335-05B L2116379-05 SC42209-13 SC44597-15	L2116379-06 1901335-07B L2116379-06 SC42209-14 SC44597-16	L2116379-05 1901335-05B L2116379-05 SC42209-13 SC44597-15	L2116379-06 1901335-07B L2116379-06 SC42209-14 SC44597-16	L2116379-05 1901335-05B L2116379-05 SC42209-13 SC44597-15	L2116379-06 1901335-07B L2116379-06 SC42209-14 SC44597-16	L2116379-05 1901335-05B L2116379-05 SC42209-13 SC44597-15
							Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Subslab Vapor	Indoor Air	Indoor Air	Subslab Vapor
Chlorinated VOCs Matrix A																					
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	8.37 U	0.079 U	0.079 U	0.079 U	9.92 U	0.08 U	1.98 U	0.08 U	0.65 U	0.64 U	0.059 U	0.064 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	8.37 U	0.079 U	0.167	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	1.3 U	1.3 U	0.12 U	0.084 J	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.126 U	0.39	13.3 U	0.566	0.126 U	0.447	15.73 U	0.42	3.15 U	0.19	2.1 U	2 U	0.37	0.4	0.126 U
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.908	0.107 U	11.3 U	0.107 U	0.57	0.107 U	13.44 U	0.11 U	2.69 U	0.11 U	0.24 J	0.24 J	0.034 J	0.3 J	0.226
Matrix B																					
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.213	0.109 U	11.5 U	0.109 U	0.262	0.109 U	13.64 U	0.29 J	2.73 U	0.55 U	1.8 U	1.8 U	0.019 J	0.023 J	0.202
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	28.5	2.75	14.3 U	0.136 U	0.61	0.136 U	16.95 U	0.08 J	3.39 U	0.07	0.24 J	0.26 J	0.11 J	0.083 J	1.17
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	183 U	1.74 U	1.74 U	3.96	8.68 U	0.65	1.63	0.69	11 U	11 U	2.4 J	1.1 UJ	1.74 U
Matrix C																					
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.189	0.051 U	5.39 U	0.051 U	0.051 U	0.051 U	6.39 U	0.05 U	1.28 U	0.05 U	0.4 J	0.42 J	0.076 U	0.082 U	0.225
Other																					
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	8.54 U	0.081 U	0.081 U	0.081 U	10.12 U	0.09 J	2.02 U	0.08 U	1.3 U	1.3 U	0.12 U	0.13 U	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	8.37 U	0.079 U	0.079	0.079 U	9.91 U	0.4 U	1.98 U	0.4 U	6.5 U	6.4 U	0.59 U	0.64 U	0.079 U
Non-Chlorinated VOCs																					
Benzene	NA	NA	NA	NA	NA	NA	-	-	33.9 U	0.907	0.319 U	0.843	7.98 U	0.99	1.6 U	2.04	2.6 U	2.6 U	1.1	1.1	-
Ethylbenzene	NA	NA	NA	NA	NA	NA	-	-	7210	2.65	33	1.09	10.84 U	0.43 U	6.46	1.13	0.8 J	0.75 J	0.75	0.78	-
m,p-Xylenes	NA	NA	NA	NA	NA	NA	-	-	28300	10.8	191	4.1	21.68 U	1.05	38.11	5.16	3.2	3.2	2.7	2.8	-
o-Xylene	NA	NA	NA	NA	NA	NA	-	-	6470	3.67	73	1.59	10.84 U	0.5	22.07	2.3 J	1.2 J	1.2 J	1	1.1	-
Toluene	NA	NA	NA	NA	NA	NA	-	-	441	2.69	4	1.76	12.34	1.11	4.59	4.85 J	12	12	12	12	-
Xylene (total)	NA	NA	NA	NA	NA	NA	-	-	34700	14.5	264	5.69	-	-	-	-	-	-	-	-	-

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR-19															
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR19-IA-6AI 03/31/2021 Field Sample 1901335-07B L2116379-06 SC42209-14 SC44597-16	TR19-SSV-6AS 12/17/2021 Field Sample	TR19-IA-6AI 12/17/2021 Field Sample	TR19-SSV-7AS 03/07/2018 Field Sample	TR19-IA-7AI 03/07/2018 Field Sample	TR19-SSV-7AS 03/31/2021 Field Sample	TR19-IA-7AI 03/31/2021 Field Sample	TR19-SSV-7AS 12/17/2021 Field Sample	TR19-IA-7AI 12/17/2021 Field Sample	TR19-SSV-7AS 12/22/2022 Field Sample	TR19-IA-7AI 12/22/2022 Field Sample	TR19-SSV-8AS 03/07/2018 Field Sample	TR19-IA-8AI 03/07/2018 Field Sample	TR19-SSV-8AS 03/31/2021 Field Sample	TR19-IA-8AI 03/31/2021 Field Sample	
							Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor	Indoor Air	Subslab Vapor
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3																
Chlorinated VOCs Matrix A																						
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	1.98 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	1.98 U	0.08 U	0.079 U	0.079 U	
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	2.78	0.4 UJ	1.71	0.079 U	1.66	0.079 U	6.11	0.079 U	1.98 U	0.4 U	0.079 U	0.079 U	
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.346	0.245	0.541	3.15 U	0.19	0.126 U	0.384	0.126 U	0.572	0.145	0.472	3.15 U	0.19	0.157	0.371	
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.107 U	0.269	0.107 U	521.3 DJ	0.21	207	0.107 U	269	0.107 U	333	0.107 U	2.69 U	0.11 U	0.575	0.107 U	
Matrix B																						
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.109 U	0.207	0.109 U	18.5	0.55 U	10	0.109 U	13.3	0.109 U	15.4	0.109 U	2.73 U	0.55 U	0.693	0.109 U	
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	2.54	0.529	0.136 U	64.9	0.27	42.9	0.807	69.2	0.136 U	55.1	0.136 U	3.39 U	0.07 J	1.01	0.495	
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	2.15	1.74 U	0.52	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	0.35 U	1.74 U	1.74 U	
Matrix C																						
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	1.28 U	0.05 U	0.146	0.051 U	0.051 U	0.051 U	0.095	0.051 U	1.28 U	0.05 U	0.051 U	0.051 U	
Other																						
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	0.081 U	1.46 J	0.08 U	0.554	0.081 U	0.546	0.081 U	1.33	0.081 U	2.02 U	0.08 U	0.081 U	0.081 U	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	1.98 U	1.19	0.079 U	0.079 U	0.079 U	0.079 U	0.139	0.079 U	1.98 U	0.4 U	0.079 U	0.079 U	
Non-Chlorinated VOCs																						
Benzene	NA	NA	NA	NA	NA	NA	-	0.431	0.671	11.52	0.7	-	-	0.371	0.508	7.64	0.677	1.91	0.51	-	-	
Ethylbenzene	NA	NA	NA	NA	NA	NA	-	7.64	1.95	2.17 U	0.43 U	-	-	3.22	0.73	2.17	0.53	2.17 U	0.43 U	-	-	
m,p-Xylenes	NA	NA	NA	NA	NA	NA	-	28.8	7.47	4.34 U	0.87 UJ	-	-	12.4	3.05	10.3	1.81	4.34 U	0.87 U	-	-	
o-Xylene	NA	NA	NA	NA	NA	NA	-	11.1	2.38	2.17 U	0.48	-	-	5.73	1.11	3.2	0.747	2.17 U	0.43 UJ	-	-	
Toluene	NA	NA	NA	NA	NA	NA	-	14.1	1.76	5.83	0.79 J	-	-	3.96	1.13	18.6	1.53	2.97	0.53 J	-	-	
Xylene (total)	NA	NA	NA	NA	NA	NA	-	39.9	9.86	-	-	-	-	18.1	4.16	13.5	2.55	-	-	-	-	

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Action Level						Building TR19			
	NYSDOH Soil Gas Concentration Matrices			NYSDOH Indoor Air Concentration Matrices			TR19-SSV-8AS 12/17/2021 Field Sample	TR19-SSV-8AS 12/17/2021 Duplicate	TR19-IA-8AI 12/17/2021 Field Sample	TR19-IA-8AI 12/17/2021 Duplicate
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	L2169938-15 Subslab Vapor	L2169938-16 Subslab Vapor	L2169938-17 Indoor Air	L2169938-18 Indoor Air
Chlorinated VOCs Matrix A										
1,1-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.079 U	0.079 U	0.079 U	0.079 U
Carbon tetrachloride	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.176	0.126 U	0.516	0.566
Trichloroethene	< 6	6 - 60	> 60	< 0.2	0.2 - 1	> 1	0.521 J	0.183 J	0.107 U	0.107 U
Matrix B										
1,1,1-Trichloroethane	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.824 J	0.327 J	0.109 U	0.109 U
Tetrachloroethene	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	0.387 J	0.237 J	0.136 UJ	0.237 J
Methylene chloride (Dichloromethane)	< 100	100 - 1000	> 1000	< 3	3 - 10	> 10	1.74 U	1.74 U	1.74 U	1.74 U
Matrix C										
Vinyl chloride	< 6	6 - 60	> 60	< 0.2	NA	> 0.2	0.051 U	0.051 U	0.051 U	0.051 U
Other										
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	0.081 U	0.081 U	0.081 U	0.081 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	0.079 U	0.079 U	0.079 U	0.079 U
Non-Chlorinated VOCs										
Benzene	NA	NA	NA	NA	NA	NA	0.319 U	0.319 U	0.441 J	0.789 J
Ethylbenzene	NA	NA	NA	NA	NA	NA	3.65 J	1.11 J	1.63 J	0.213 J
m,p-Xylenes	NA	NA	NA	NA	NA	NA	13.4 J	4.65 J	6.34 J	0.717 J
o-Xylene	NA	NA	NA	NA	NA	NA	5.95 J	2.16 J	2.99 J	0.248 J
Toluene	NA	NA	NA	NA	NA	NA	4.07 J	1.64 J	2.8 J	1.28 J
Xylene (total)	NA	NA	NA	NA	NA	NA	19.4 J	6.82 J	9.34 J	0.964 J

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
NYSDOH: New York State Department of Health
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 2
SUMMARY OF OUTDOOR AIR ANALYTICAL RESULTS
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group Location Name Sample Date Sample Type Lab Sample ID Soil Description	Building TR4		Building TR5					Building TR5A		Building TR6A			
	TR4-OA-1AA	TR4-OA-1AA	TR5-OA-1AA	TR5-OA-1AA	TR5-OA-1AA	TR5-OA-1-20211210	TR5-OA-1-20221221	TR5A-OA-1AA	TR5A-OA-1-20221222	TR6A-OA-1AA	TR6A-OA-1AA	TR6A-OA-1-20211208	TR6A-OA-1-20221220
	12/06/2017	03/02/2018	12/07/2017	03/05/2018	04/01/2021	12/10/2021	12/21/2022	08/31/2022	12/22/2022	12/11/2017	03/30/2021	12/08/2021	12/20/2022
	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
	SC42208-14	SC42208-14	SC42333-11	SC42333-11	SC42333-11					L2116079-03	L2116079-03		
	SC44511-11	SC44511-11	SC44594-13	SC44594-13	SC44594-13	L2168305-18	L2272321-13	L2247390-06	L2272323-13	SC42329-16	SC42329-16	L2167799-13	L2271728-09
	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air
Chlorinated VOCs Matrix A													
1,1-Dichloroethene	0.08 U	0.01 J	0.08 U	0.08 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.08 U	0.079 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	0.4 U	0.4 U	0.4 U	0.4 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.4 U	0.079 U	0.079 U	0.079 U
Carbon tetrachloride	0.25	0.25	0.28	0.22	0.44	0.547	0.421	0.434	0.51	0.27	0.396	0.415	0.44
Trichloroethene	0.37	0.07	0.13	0.11 U	0.107 U	0.107 U	0.172	0.107 U	0.107 U	0.02 J	0.107 U	0.107 U	0.107 U
Matrix B													
1,1,1-Trichloroethane	0.55 U	0.55 U	0.55 U	0.55 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.55 U	0.109 U	0.109 U	0.109 U
Tetrachloroethene	0.04 J	0.14 U	0.09 J	0.14 U	0.136 U	0.461	0.59	0.136 U	0.136 U	0.03 J	0.136 U	0.136 U	0.136 U
Methylene chloride (Dichloromethane)	0.27 J	0.35 U	0.35 U	0.35 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	0.32 J	1.74 U	1.74 U	1.74 U
Matrix C													
Vinyl chloride	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.05 U	0.051 U	0.051 U	0.051 U
Other													
1,1-Dichloroethane	0.08 U	0.01 J	0.02 J	0.08 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.08 U	0.081 U	0.081 U	0.081 U
trans-1,2-Dichloroethene	0.4 U	0.4 U	0.4 U	0.53	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.4 U	0.079 U	0.079 U	0.079 U
Non-Chlorinated VOCs													
Benzene	0.41	0.51	0.52	0.53	-	0.565	0.588	0.367	0.441	0.33	-	0.342	0.319 U
Ethylbenzene	1.57	0.43 UJ	2.48	0.43 UJ	-	0.135	0.182	0.313	0.126	0.43 U	-	0.109	0.087
m,p-Xylenes	3.45	0.87 UJ	5.72	0.87 UJ	-	0.391	0.521	1.03	0.321	0.87 U	-	0.308	0.256
o-Xylene	1.27	0.43 UJ	2.01	0.43 UJ	-	0.156	0.213	0.4	0.122	0.43 U	-	0.126	0.087
Toluene	1.8	0.38 U	2.6	0.38 U	-	0.595	0.957	1.54	0.524	0.36 J	-	0.399	0.377 U
Xylene (total)	-	-	-	-	-	0.547	0.734	1.43	0.443	-	-	0.434	0.343

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
U: not detected, value is the reporting limit.

All results displayed in µg/m3.
Bold text indicates a detection above the method detection limit.

APPENDIX C - TABLE 2
SUMMARY OF OUTDOOR AIR ANALYTICAL
CARRIER THOMPSON ROAD FACILITY
SYRACUSE, NEW YORK

Location Group	Building TR7					Building TR12					Building TR19			
Location Name	TR7-OA-1AA	TR7-OA-1AA	TR7-OA-1AA	TR7-OA-1-20211207	TR7-OA-1-20221219	TR12-OA-1AA	TR12-OA-1AA	TR12-OA-1AA	TR12-OA-1-20211209	TR12-OA-1-20221220	TR19-OA-1AA	TR19-OA-1AA	TR19-OA-1AA	TR19-OA-1-20211217
Sample Date	12/08/2017	03/08/2018	04/02/2021	12/07/2021	12/19/2022	12/11/2017	03/13/2018	03/30/2021	12/09/2021	12/20/2022	12/05/2017	03/07/2018	03/31/2021	12/17/2021
Sample Type	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Lab Sample ID	L2116861-19	L2116861-19	L2116861-19			L2116079-06	L2116079-06	L2116079-06			L2116379-16	L2116379-16	L2116379-16	
Soil Description	SC42337-11	SC42337-11	SC42337-11			SC42329-15	SC42329-15	SC42329-15			SC42209-15	SC42209-15	SC42209-15	
	SC44641-11	SC44641-11	SC44641-11	L2167437-17	L2271721-17	SC44770-09	SC44770-09	SC44770-09	L2168305-05	L2271728-12	SC44597-17	SC44597-17	SC44597-17	L2169938-19
	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air	Outdoor Air
Chlorinated VOCs														
Matrix A														
1,1-Dichloroethene	0.08 U	0.08 U	0.079 U	0.079 U	0.079 U	0.08 U	0.08 U	0.079 U	0.079 U	0.079 U	0.08 U	0.08 U	0.079 U	0.079 U
cis-1,2-Dichloroethene	0.4 U	0.4 U	0.079 U	0.079 U	0.079 U	0.4 U	0.4 U	0.079 U	0.079 U	0.079 U	0.4 U	0.4 U	0.079 U	0.079 U
Carbon tetrachloride	0.3	0.19	0.421	0.604	0.478	0.25	0.06 J	0.39	0.585	0.465	0.43	0.19	0.384	0.541
Trichloroethene	0.09 J	0.11 U	0.107 U	0.107 U	0.107 U	0.04 J	0.05 J	0.107 U	0.107 U	0.107 U	0.11	0.11 U	0.107 U	0.107 U
Matrix B														
1,1,1-Trichloroethane	0.55 U	0.55 U	0.109 U	0.109 U	0.109 U	0.55 U	0.55 U	0.109 U	0.109 U	0.109 U	0.22 J	0.55 U	0.109 U	0.109 U
Tetrachloroethene	0.14 U	0.14	0.136 U	0.136 U	0.136 U	0.01 J	0.07 J	0.183	0.136 U	0.136 U	0.06 J	0.07 J	0.136 U	0.136 U
Methylene chloride (Dichloromethane)	0.35 U	1.67	1.74 U	1.87	1.74 U	0.39	0.52	1.74 U	1.74 U	1.74 U	0.52	0.35 U	1.74 U	1.74 U
Matrix C														
Vinyl chloride	0.05 U	0.05 U	0.051 U	0.051 U	0.051 U	0.05 U	0.05 U	0.051 U	0.051 U	0.051 U	0.05 U	0.05 U	0.051 U	0.051 U
Other														
1,1-Dichloroethane	0.03 J	0.08 U	0.081 U	0.081 U	0.081 U	0.08 U	0.08 U	0.081 U	0.081 U	0.081 U	0.07 J	0.08 U	0.081 U	0.081 U
trans-1,2-Dichloroethene	0.4 U	0.4 U	0.079 U	0.079 U	0.079 U	0.4 U	0.4 U	0.079 U	0.079 U	0.079 U	0.4 U	0.4 U	0.079 U	0.079 U
Non-Chlorinated VOCs														
Benzene	0.52	0.54	-	0.751	0.39	0.33	0.7	-	0.319 U	0.319	0.41	0.83	-	0.355
Ethylbenzene	0.43 U	0.43 U	-	0.117	0.087	0.43 U	0.43 U	-	0.087 U	0.148	0.43 U	0.43 U	-	0.087
m,p-Xylenes	0.87 U	0.87 U	-	0.374	0.191	0.87 U	0.87 U	-	0.174 U	0.413	0.87 U	0.87 U	-	0.222
o-Xylene	0.43 U	0.43 U	-	0.148	0.087 U	0.43 U	0.3	-	0.087 U	0.156	0.43 U	0.17 J	-	0.087 U
Toluene	0.39	0.53	-	0.788	0.433	0.53	0.64	-	0.377 U	0.426	0.31 J	0.53 J	-	0.407
Xylene (total)	-	-	-	0.521	0.191	-	-	-	0.087 U	0.569	-	-	-	0.222

Notes and Abbreviations:
-: Not Analyzed
µg/m3: micrograms per cubic meter
J: value is estimated.
NA: Not Applicable
U: not detected, value is the reporting li.
All results displayed in µg/m3.
Bold text indicates a detection above th