**PRIVILEGED & CONFIDENTIAL**
**SUBJECT TO ATTORNEY-CLIENT AND WORK PRODUCT PRIVILEGES**

December 5, 2022

Mr. Jeff Grube
BFG Electroplating
PO Box 1065
701 Martha Street
Punxsutawney, PA 15767

% George S. Van Nest, Esq.
Partner
Underberg & Kessler LLP
50 Fountain Plaza, Suite 320
Buffalo, New York 14202

***Re: Soil Vapor Intrusion (SVI) Assessment in Building 1***
***33 Scott Street***
***Hamburg, New York***

Dear Mr. Van Nest:

As requested, TurnKey Environmental Restoration (TurnKey) completed a Soil Vapor Intrusion (SVI) Assessment in Building 1 at 33 Scott Street in Buffalo, Erie County, New York (Site). The 33 Scott Street parcel is in a mixed commercial/residential area of the Village of Hamburg and is bounded by residential property owned by BFG to the north; residential and commercial (parking lot for Hamburg Volunteer Fire Department) parcels to the east; commercial building housing Clyde's Feed and Animal Center to the south; and Scott Street and commercial properties to the west.

The 33 Scott Street parcel (SBL#195.08-6-23, approx. 0.42 acres) is developed with a two-story 13,890 square foot former electroplating facility constructed in 1880 (Building 2) and an approximately 4,528 square foot single-story storage building (Building 1) previously occupied by BFG Electroplating & Manufacturing before becoming vacant. Since Building 2 is currently unoccupied and will likely be demolished, the SVI assessment was performed in Building 1 only. We understand that Building 1 is currently leased to an entity that stores furniture for a



2558 Hamburg Turnpike, Suite 300 | Buffalo, NY 14218
phone: (716) 856-0599 | fax: (716) 856-0583

local retail store. Workers enter Building 1 to unload and load inventory one to two times each week.

This SVI Assessment was recommended by TurnKey since the Site has a history of electroplating, foundry, and manufacturing operations. A summary of the soil vapor intrusion work completed by TurnKey is provided below:

**Summary of Work**

Pre-Sampling Inventory

Prior to completing the SVI sampling, a pre-sampling inspection was completed within Building 1. The only possible source of potential indoor air contamination observed within Building 1 proximate the indoor air sample IA-1 was new textile furniture wrapped in plastic. Based on these observations, TurnKey does not suspect that the laboratory analytical results were biased due to the presence of this furniture. Attachment 1 includes this pre-sampling building inventory.

Sample Collection

To evaluate the potential for vapor intrusion into Building 1, one sub-slab vapor (SSV-1) sample was collected from beneath the existing building slab. One concurrent interior ambient air (IA-1) sample was collected to represent indoor breathing air from within the building, and one outdoor ambient air (OA-1) sample was collected to establish background conditions. Figure 1 shows the approximate sample locations. The sampling was completed in general accordance with New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006; revised May 2017) sampling protocol.

The SSV/IA/OA samples were collected on November 10, 2022 using laboratory provided Summa® air collection canisters equipped with pre-set timed regulator to draw vapors into the canisters over an 8-hour period. Following sample collection, the canisters were delivered under chain of custody command to Eurofins TestAmerica Laboratories (Eurofins) for analysis of volatile organic compounds (VOCs) per United States Environmental Protection Agency (USEPA) TO-15 methodology.

Sample Results

Table 1 summarizes the VOC data for the sub-slab, indoor air, and outdoor air samples. Attachment 2 includes a copy of the laboratory analytical report. The May 2017 NYSDOH SVI Guidance identifies eight chlorinated VOCs for which action levels have been developed dependent upon co-located indoor and sub-slab vapor concentrations. The action levels vary according to the matrix assigned to the compound, with each of the compounds assigned to one of three matrices (A, B, and C). As summarized on Table 2, the chlorinated VOC concentrations identified in sub-slab and indoor air in comparison to their applicable NYSDOH decision matrices indicate that "no further action" is required in most cases.

However, trichloroethene (TCE) concentrations require mitigation and cis-1,2-dichloroethene (cis-1,2-DCE) concentrations require resampling or mitigation.

**Conclusion and Recommendation**

Chlorinated VOCs, including tetrachloroethene (PCE), TCE, 111-trichloroethane (TCA), cis-1,2-DCE, and carbon tetrachloride were detected in the sub-slab vapor and/or indoor air samples collected during this SVI assessment. Soil vapor beneath the structure's concrete slab and indoor air have been impacted by TCE, and to a lesser extent cis-1,2-DCE, that requires mitigation based on NYSDOH guidance documents.

The next step is to complete sub-slab communication testing within the building footprint to collect data to design an active subslab depressurization (ASD) system to protect the building from soil vapor intrusion. TurnKey will provide a cost proposal under separate cover to complete the communication testing and design of the ASD system.

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

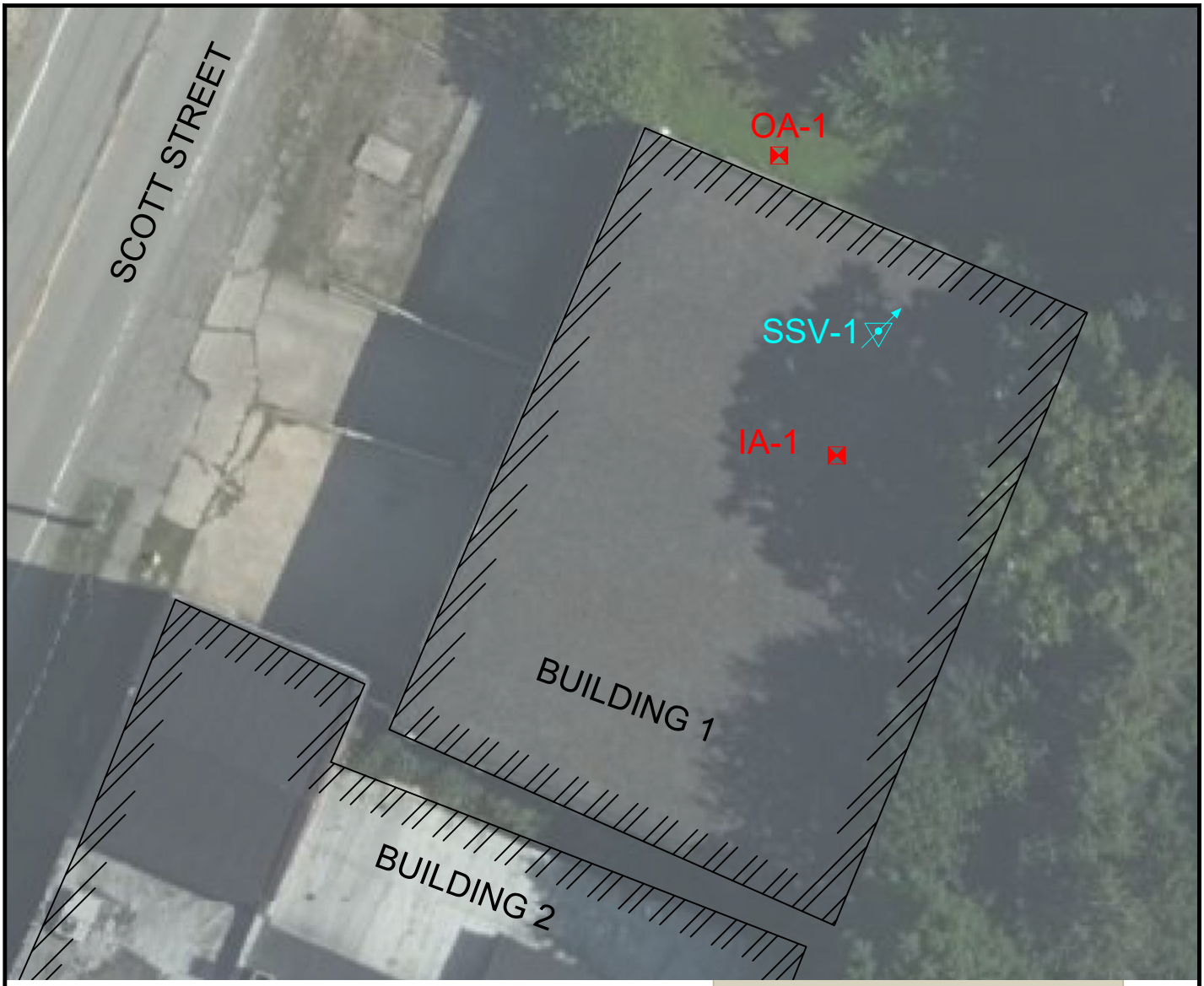
Michael A. Lesakowski
President

Lori E. Riker, P.E.
Sr. Project Manager

Att.

# FIGURE

# FIGURE 1




20' 0' 20' 40'

SCALE: 1 INCH = 20 FEET
SCALE IN FEET
(approximate)

N

LEGEND

IA1 / OA1 — INDOOR / OUTDOOR AIR SAMPLE
SS1 — SUBSLAB VAPOR
EXTERIOR BUILDING WALL

TurnKey Environmental Restoration, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0657-022-001

DATE: DECEMBER 2022

DRAFTED BY: RFL

## SVI SAMPLE LOCATIONS

SVI ASSESSMENT- BUILDING 1

33 SCOTT STREET
HAMBURG, NEW YORK

PREPARED FOR
BFG ELECTROPLATING & MFG. CO.

# TABLES

**TABLE 1**
**SUMMARY OF SUBSLAB VAPOR, INDOOR AIR, AND OUTDOOR AIR SAMPLING ANALYTICAL RESULTS**

**33 SCOTT STREET**
**HAMBURG, NEW YORK**

| Parameter | Sample Location & Sample Date | | |
|---|---|---|---|
| | SSV-1 (Sub-slab) | IA-1 (Indoor Air) | OA-1 (Outdoor Air) |
| | 11/10/2022 | | |
| ***Volatile Organic Compounds (VOCs, ug/m3)*** | | | |
| 1,1,1-Trichloroethane (Matrix B) [2] | 99 D | 0.53 J | ND< 1.1 |
| 1,1,2-Trichlorotrifluoroethane | ND< 1.5 | ND< 1.5 | 0.42 J |
| 1,1-Dichloroethane | 2.3 J D | ND< 0.81 | ND< 0.81 |
| 1,1-Dichloroethene (Matrix A) [2] | ND< 0.2 | ND< 0.2 | ND< 0.2 |
| 1,2,4-Trimethylbenzene | 0.76 J | 0.99 | ND< 0.98 |
| 1,3,5-Trimethylbenzene | 0.37 J | 0.42 J | ND< 0.98 |
| 2,2,4-Trimethylpentane | ND< 0.93 | 0.29 J | 0.19 J |
| 4-Ethyltoluene | 0.31 J | 0.31 J | ND< 0.98 |
| Acetone | 35 J D | 11 J | 4.6 J |
| Benzene | 1.9 J D | 0.34 J | 0.36 J |
| Carbon Disulfide | 27 D | ND< 1.6 | ND< 1.6 |
| Carbon Tetrachloride (Matrix A) [2] | 0.52 | 0.26 | 0.25 |
| Chlorodifluoromethane | ND< 1.8 | 0.67 J | 0.72 J |
| Chloroform | 8 D | ND< 0.98 | ND< 0.98 |
| Chloromethane | ND< 1.3 | 0.77 J | 0.82 J |
| cis-1,2-Dichloroethene (Matrix A)[2] | 1.4 D | 1.6 | ND< 0.2 |
| Cyclohexane | 75 D | ND< 0.69 | ND< 0.69 |
| Cumene | 0.24 J | ND< 0.98 | ND< 0.98 |
| Dichlorodifluoromethane | ND< 2.5 | 1.6 J | 1.7 J |
| Ethylbenzene | 5.3 D | 4.4 | 0.33 J |
| m&p-Xylene | 8.6 J D | 8.9 | 0.76 J |
| Methyl Butyl Ketone | 4.0 | ND< 1.5 | ND< 1.5 |
| Methylene chloride (Matrix B) [2] | ND< 0.5 | ND< 0.5 | ND< 0.5 |
| n-Butane | 310 D | 1.5 | 2.1 |
| n-Heptane | 19 D | ND< 0.82 | 0.3 J |
| n-Hexane | 100 D | ND< 1.8 | ND< 1.8 |
| n-Propylbenzene | 0.25 J | ND< 0.98 | ND< 0.98 |
| o-Xylene | 1.1 J D | 1.2 | 0.46 J |
| Styrene | 0.5 J | ND< 0.85 | ND< 0.85 |
| Tetrachloroethene (Matrix B) [2] | 1.2 J D | 0.57 J | ND< 1.4 |
| Toluene | 3.8 D | 1.1 | 0.84 |
| trans-1,2-Dichloroethene | 0.39 J | ND< 0.79 | ND< 0.79 |
| Trichloroethene (Matrix A) [2] | 89 D | 16 | ND< 0.2 |
| Trichlorofluoromethane | 12 D | 13 | 0.87 J |
| Vinyl chloride (Matrix C) [2] | ND< 0.39 | ND< 0.2 | ND< 0.2 |

**Notes:**

1. Only those parameters detected above method detection limit at a minimum of one location are presented.
2. Constituent monitored under NYSDOH Vapor/ Indoor Air Quality Standards - (Matrices A,B,C- Updated May 2017)

**Definitions:**

ND = Parameter not detected above method detection limit.

J = The analyte was positively identified; associated numerical value is an approximate concentration of analyte in sample.

D = Sample results obtained from a dilution; surrogate or matrix spike recoveries reported are calculated from diluted sample.

TABLE 2

COMPARISON OF SUBSLAB VAPOR, INDOOR AIR, AND OUTDOOR AIR ANALYTICAL RESULTS TO NYSDOH DECISION MATRICES

33 SCOTT STREET
HAMBURG, NEW YORK

| Sample Location | Carbon Tetrachloride | | Trichloroethene (TCE) | | cis-1,2-Dichloroethene | | 1,1-Dichloroethene | | Tetrachloroethene (PCE) | | 1,1,1 -Trichloroethane | | Methylene Chloride | | Vinyl Chloride | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix A | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix A | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix A | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix A | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix B | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix B | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix B | Lab Reported Concentration ($ug/m^3$) | Soil Vapor / Indoor Air Matrix C |
| **Subslab Vapor/Indoor Air /Outdoor Air** | | | | | | | | | | | | | | | | |
| SSV-1 (Sub-slab vapor) | 0.52 | NFA | 89 | MITIGATE | 1.4 | Identify Sources(S) and Resample or Mitigate | ND< 0.2 | NFA | 1.2 | NFA | 99 | NFA | ND< 0.5 | NFA | ND< 0.39 | NFA |
| IA-1 (Indoor Air) | 0.26 | | 16 | | 1.6 | | ND< 0.2 | | 0.57 | | 0.53 | | ND< 0.5 | | ND< 0.39 | |
| OA-1 (Outdoor Air) | 0.25 | | ND< 0.2 | | ND< 0.2 | | ND< 0.2 | | ND< 1.4 | | ND< 1.1 | | ND< 0.5 | | ND< 0.39 | |

**Notes:**

1. Concentration in micrograms per cubic meter ($ug/m^3$)

= mitigation required

**Definitions:**

ND< 1.4 = Not detected above method detection limit
NFA = No further action

**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 |

**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 |

**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 |

# ATTACHMENT 1

## PRE-SAMPLING BUILDING INVENTORY

TURNKEY ENVIRONMENTAL RESTORATION LLC

# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

Project Name: 33 Scott St Hamburg NY Project No.

Project Location: 33 Scott St - Hamburg NY Client:

Preparer's Name: RLO Date/Time: 11/10/22

Preparer's Affiliation: Phone No:

Purpose of Investigation: SVI - Building I

**1. OCCUPANT:**

**Interviewed: yes (no)**

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: yes (no)**

Last Name: First Name:

Address:

County:

Home Phone: Office Phone:

**3. BUILDING CHARACTERISTICS**

**Type of Building:** check appropriate response)

| | | |
|---|---|---|
| ☐ Residential | ☐ School | ☑ Commercial/Multi-use |
| ☐ Industrial | ☐ Church | ☐ Other: |

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

| | | |
|---|---|---|
| ☐ Ranch | ☐ 2-Family | ☐ 3-Family |
| ☐ Raised Ranch | ☐ Split Level | ☐ Colonial |
| ☐ Cape Cod | ☐ Contemporary | ☐ Mobile Home |
| ☐ Duplex | ☐ Apartment House | ☐ Townhouse/Condo |
| ☐ Modular | ☐ Log Home | ☐ Other: |

**If multiple units, how many?**

**If the property is commercial, type?**

Business Type(s):

Does it include residences (i.e., multi-use)? yes (no) If yes, how many?

**Other Characteristics:**

Number of floors 1 Building age >25 yrs

Is the building insulated? yes (no) How air tight? tight (average) not tight

**4. AIR FLOW**

**Use air current tubes or tracer smoke to evaluate air flow patterns and qualitatively describe:** N/A

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

## 5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (check all that apply)

| | | | |
|---|---|---|---|
| a. Above grade construction: | ☐ wood frame | ☐ concrete | ☐ stone |
| b. Basement type: | ☐ full | ☐ crawlspace | ☐ slab |
| c. Basement floor: | ☐ concrete | ☐ dirt | ☐ stone |
| d. Basement floor: | ☐ uncovered | ☐ covered | ☐ covered with |
| e. Concreter floor: | ☐ unsealed | ☐ sealed | ☐ sealed with |
| f. Foundation walls: | ☐ poured | ☐ block | ☐ stone |
| g. Foundation walls: | ☐ unsealed | ☐ sealed | ☐ sealed with |
| h. The basement is: | ☐ wet | ☐ damp | ☐ dry |
| i. The basement is: | ☐ finished | ☐ unfinished | ☐ partially finished |
| j. Sump present? | ☑ yes | ☐ no | |
| k. Water in Sump? | ☑ yes | ☐ no | ☐ not applicable |

Basement/Lowest level depth below grade:

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

Floor Sump with water. SLAB on grade floor no Basement.

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

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

- ☐ Hot air circulation
- ☐ Heat pump
- ☐ Hot water baseboard
- ☐ Space Heaters
- ☐ Steam radiation
- ☐ Radiant floor
- ☐ Electric baseboard
- ☐ Wood stove
- ☐ Outdoor wood boiler
- ☐ Other No Heat in Buildings

**The primary type of fuel used is:**

- ☐ Natural Gas
- ☐ Fuel oil
- ☐ Kerosene
- ☐ Electric
- ☐ Propane
- ☐ Solar
- ☐ Wood
- ☐ Coal
- ☐ Other No Heat ~~in~~ in Buildings

**Domestic hot water tank fueled by:**

**Boiler/furnace located in:** N/A

☐ Basement ☐ Outdoors ☐ Main Floor ☐ Other

**Air Conditioning:** N/A

☐ Central Air ☐ Window units ☐ Open Windows ☐ None

**Are there air distribution ducts present?** ☐ yes ☐ no

**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.**

## 7. OCCUPANCY N/A

**Is basement/lowest level occupied?** ☐ Full-time ☐ Occaisionally ☐ Seldom ☐ Almost Never

| Level | General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage) |
|---|---|
| Basement | |
| First Floor | Building Used to Store/House new Furniture |
| Second Floor | |
| Third Floor | |
| Fourth Floor | |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? ☐ yes ☑ no

b. Does the garage have a separate heating unit? ☐ yes ☐ no ☑ NA

c. Are petroleum-powered machines or vehicles stored in the garage? ☐ yes ☐ no ☑ NA
(e.g., lawnmower, atv, car) If yes, please specify:

d. Has the building ever had a fire? ☐ yes ☑ no
If yes, when?

e. Is a kerosene or unvented gas space heater present? ☐ yes ☑ no
If yes, where?

f. Is there a workshop or hobby/craft area? ☐ yes ☑ no
If yes, where and type?

g. Is there smoking in the building? ☐ yes ☑ no
If yes, how frequently?

h. Have cleaning products been used recently? ☐ yes ☑ no
If yes, when & type?

i. Have cosmetic products been used recently? ☐ yes ☑ no
If yes, when & type?

j. Has painting/staining been done in the last 6 months? ☐ yes ☑ no
If yes, where & when?

k. Is there new carpet, drapes, or other textiles? ☑ yes ☐ no
If yes, where & when? New furniture wrapped in plastic currently stored in building

l. Have air fresheners been used recently? ☐ yes ☑ no
If yes, when & type?

m. Is there a kitchen exhaust fan? ☐ yes ☑ no
If yes, where vented?

n. Is there a bathroom exhaust fan? ☐ yes ☑ no
If yes, where vented?

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY (continued)

o. Is there a clothes dryer? ☐ yes ☑ no
If yes, is it vented outside? yes no

p. Has there been a pesticide application? ☐ yes ☑ no

If yes, when & type?

q. Are there odors in the building? ☐ yes ☑ no

If yes, please describe?

r. Do any of the building occupants use solvents at work? ☐ yes ☐ no N/A

(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? ☐ yes ☐ no

s. Do any of the building occupants regularly use or work at a dry-cleaning service? N/A

(check appropriate response)

☐ yes, use dry-cleaning regularly (weekly) ☐ no

☐ yes, use dry-cleaning infrequently (monthly or less) ☐ unknown

☐ yes, work at a dry-cleaning service

t. Is there a radon mitigation system for the building/structure? ☐ yes ☑ no

If yes, date of installation?

Is the system active or 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) N/A

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? ☐ yes ☐ no

d. Relocation package provided and explained to residents? ☐ yes ☐ no

## 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

# ATTACHMENT 2

## LABORATORY ANALYTICAL REPORT

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Richard L Dubisz
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna New York 14218

Generated 11/23/2022 10:06:56 AM

## JOB DESCRIPTION

33 Scott St. Hamburg, NY
SDG NUMBER 200-65790

## JOB NUMBER

200-65790-1

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington VT 05403

myEOL

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| D | Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples. |
| E | Result exceeded calibration range. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 200-65790-1

**Laboratory: Eurofins Burlington**

**Narrative**

# CASE NARRATIVE

## Client: Turnkey Environmental Restoration, LLC

## Project: 33 Scott St. Hamburg, NY

## Report Number: 200-65790-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**
The samples were received on 11/17/2022; the samples arrived in good condition.

**VOLATILE ORGANIC COMPOUNDS**
Samples SSV-1, IA-1 and OA-1 OUTDOOR AIR were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 11/17/2022 and 11/19/2022.

Sample SSV-1[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

## Client Sample ID: SSV-1

## Lab Sample ID: 200-65790-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 18 | | 0.20 | 0.044 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,1-Dichloroethane | 0.56 | | 0.20 | 0.025 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.16 | J | 0.20 | 0.080 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.076 | J | 0.20 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.062 | J | 0.20 | 0.049 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 15 | | 5.0 | 1.6 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.58 | | 0.20 | 0.044 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 8.4 | | 0.50 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.083 | | 0.035 | 0.022 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloroform | 1.6 | | 0.20 | 0.041 | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 0.35 | | 0.050 | 0.021 | ppb v/v | 1 | | TO-15 | Total/NA |
| Cumene | 0.049 | J | 0.20 | 0.041 | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 22 | | 0.20 | 0.058 | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 1.2 | | 0.20 | 0.052 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 2.0 | | 0.50 | 0.095 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 1.4 | | 0.50 | 0.49 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 110 | E | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 4.6 | | 0.20 | 0.055 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 28 | | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Propylbenzene | 0.051 | J | 0.20 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.27 | | 0.20 | 0.052 | ppb v/v | 1 | | TO-15 | Total/NA |
| Styrene | 0.12 | J | 0.20 | 0.059 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.19 | J | 0.20 | 0.021 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 1.0 | | 0.20 | 0.042 | ppb v/v | 1 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 0.097 | J | 0.20 | 0.023 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 16 | | 0.037 | 0.025 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 2.0 | | 0.20 | 0.050 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane - DL | 18 | D | 1.0 | 0.22 | ppb v/v | 5 | | TO-15 | Total/NA |
| 1,1-Dichloroethane - DL | 0.57 | J D | 1.0 | 0.13 | ppb v/v | 5 | | TO-15 | Total/NA |
| Acetone - DL | 15 | J D | 25 | 8.0 | ppb v/v | 5 | | TO-15 | Total/NA |
| Benzene - DL | 0.60 | J D | 1.0 | 0.22 | ppb v/v | 5 | | TO-15 | Total/NA |
| Carbon disulfide - DL | 8.7 | D | 2.5 | 0.65 | ppb v/v | 5 | | TO-15 | Total/NA |
| Chloroform - DL | 1.6 | D | 1.0 | 0.21 | ppb v/v | 5 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene - DL | 0.35 | D | 0.25 | 0.11 | ppb v/v | 5 | | TO-15 | Total/NA |
| Cyclohexane - DL | 22 | D | 1.0 | 0.29 | ppb v/v | 5 | | TO-15 | Total/NA |
| Ethylbenzene - DL | 1.2 | D | 1.0 | 0.26 | ppb v/v | 5 | | TO-15 | Total/NA |
| m,p-Xylene - DL | 2.0 | J D | 2.5 | 0.48 | ppb v/v | 5 | | TO-15 | Total/NA |
| n-Butane - DL | 130 | D | 2.5 | 1.0 | ppb v/v | 5 | | TO-15 | Total/NA |
| n-Heptane - DL | 4.6 | D | 1.0 | 0.28 | ppb v/v | 5 | | TO-15 | Total/NA |
| n-Hexane - DL | 30 | D | 2.5 | 0.55 | ppb v/v | 5 | | TO-15 | Total/NA |
| o-Xylene - DL | 0.26 | J D | 1.0 | 0.26 | ppb v/v | 5 | | TO-15 | Total/NA |
| Tetrachloroethene - DL | 0.18 | J D | 1.0 | 0.11 | ppb v/v | 5 | | TO-15 | Total/NA |
| Toluene - DL | 1.0 | D | 1.0 | 0.21 | ppb v/v | 5 | | TO-15 | Total/NA |
| Trichloroethene - DL | 17 | D | 0.19 | 0.13 | ppb v/v | 5 | | TO-15 | Total/NA |
| Trichlorofluoromethane - DL | 2.1 | D | 1.0 | 0.25 | ppb v/v | 5 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 98 | | 1.1 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,1-Dichloroethane | 2.2 | | 0.81 | 0.10 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.76 | J | 0.98 | 0.39 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.37 | J | 0.98 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.31 | J | 0.98 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

## Client Sample ID: SSV-1 (Continued)

## Lab Sample ID: 200-65790-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 36 | | 12 | 3.8 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 1.9 | | 0.64 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 26 | | 1.6 | 0.40 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.52 | | 0.22 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloroform | 7.9 | | 0.98 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 1.4 | | 0.20 | 0.083 | ug/m3 | 1 | | TO-15 | Total/NA |
| Cumene | 0.24 | J | 0.98 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 75 | | 0.69 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 5.3 | | 0.87 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 8.8 | | 2.2 | 0.41 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone (2-Butanone) | 4.0 | | 1.5 | 1.4 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 260 | E | 1.2 | 0.48 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 19 | | 0.82 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 100 | | 1.8 | 0.39 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Propylbenzene | 0.25 | J | 0.98 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 1.2 | | 0.87 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Styrene | 0.50 | J | 0.85 | 0.25 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 1.3 | J | 1.4 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 3.9 | | 0.75 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 0.39 | J | 0.79 | 0.091 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 88 | | 0.20 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 11 | | 1.1 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane - DL | 99 | D | 5.5 | 1.2 | ug/m3 | 5 | | TO-15 | Total/NA |
| 1,1-Dichloroethane - DL | 2.3 | J D | 4.0 | 0.51 | ug/m3 | 5 | | TO-15 | Total/NA |
| Acetone - DL | 35 | J D | 59 | 19 | ug/m3 | 5 | | TO-15 | Total/NA |
| Benzene - DL | 1.9 | J D | 3.2 | 0.70 | ug/m3 | 5 | | TO-15 | Total/NA |
| Carbon disulfide - DL | 27 | D | 7.8 | 2.0 | ug/m3 | 5 | | TO-15 | Total/NA |
| Chloroform - DL | 8.0 | D | 4.9 | 1.0 | ug/m3 | 5 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene - DL | 1.4 | D | 1.0 | 0.42 | ug/m3 | 5 | | TO-15 | Total/NA |
| Cyclohexane - DL | 75 | D | 3.4 | 1.0 | ug/m3 | 5 | | TO-15 | Total/NA |
| Ethylbenzene - DL | 5.3 | D | 4.3 | 1.1 | ug/m3 | 5 | | TO-15 | Total/NA |
| m,p-Xylene - DL | 8.6 | J D | 11 | 2.1 | ug/m3 | 5 | | TO-15 | Total/NA |
| n-Butane - DL | 310 | D | 5.9 | 2.4 | ug/m3 | 5 | | TO-15 | Total/NA |
| n-Heptane - DL | 19 | D | 4.1 | 1.1 | ug/m3 | 5 | | TO-15 | Total/NA |
| n-Hexane - DL | 100 | D | 8.8 | 1.9 | ug/m3 | 5 | | TO-15 | Total/NA |
| o-Xylene - DL | 1.1 | J D | 4.3 | 1.1 | ug/m3 | 5 | | TO-15 | Total/NA |
| Tetrachloroethene - DL | 1.2 | J D | 6.8 | 0.71 | ug/m3 | 5 | | TO-15 | Total/NA |
| Toluene - DL | 3.8 | D | 3.8 | 0.79 | ug/m3 | 5 | | TO-15 | Total/NA |
| Trichloroethene - DL | 89 | D | 1.0 | 0.67 | ug/m3 | 5 | | TO-15 | Total/NA |
| Trichlorofluoromethane - DL | 12 | D | 5.6 | 1.4 | ug/m3 | 5 | | TO-15 | Total/NA |

## Client Sample ID: IA-1

## Lab Sample ID: 200-65790-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.097 | J | 0.20 | 0.044 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.20 | | 0.20 | 0.080 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.085 | J | 0.20 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.061 | J | 0.20 | 0.038 | ppb v/v | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.062 | J | 0.20 | 0.049 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 4.8 | J | 5.0 | 1.6 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.11 | J | 0.20 | 0.044 | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: IA-1 (Continued)

## Lab Sample ID: 200-65790-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 0.042 | | 0.035 | 0.022 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.19 | J | 0.50 | 0.12 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.37 | J | 0.50 | 0.15 | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 0.39 | | 0.050 | 0.021 | ppb v/v | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.32 | J | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 1.0 | | 0.20 | 0.052 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 2.0 | | 0.50 | 0.095 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 0.63 | | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.28 | | 0.20 | 0.052 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.084 | J | 0.20 | 0.021 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.28 | | 0.20 | 0.042 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 3.0 | | 0.037 | 0.025 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 2.3 | | 0.20 | 0.050 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.53 | J | 1.1 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.99 | | 0.98 | 0.39 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.42 | J | 0.98 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.29 | J | 0.93 | 0.18 | ug/m3 | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.31 | J | 0.98 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 11 | J | 12 | 3.8 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.34 | J | 0.64 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.26 | | 0.22 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.67 | J | 1.8 | 0.42 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.77 | J | 1.0 | 0.31 | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 1.6 | | 0.20 | 0.083 | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 1.6 | J | 2.5 | 0.54 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 4.4 | | 0.87 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 8.9 | | 2.2 | 0.41 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 1.5 | | 1.2 | 0.48 | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 1.2 | | 0.87 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.57 | J | 1.4 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 1.1 | | 0.75 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 16 | | 0.20 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 13 | | 1.1 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: OA-1 OUTDOOR AIR

## Lab Sample ID: 200-65790-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | 0.055 | J | 0.20 | 0.053 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.040 | J | 0.20 | 0.038 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 1.9 | J | 5.0 | 1.6 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.11 | J | 0.20 | 0.044 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.039 | | 0.035 | 0.022 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.20 | J | 0.50 | 0.12 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.40 | J | 0.50 | 0.15 | ppb v/v | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 0.35 | J | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.076 | J | 0.20 | 0.052 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.18 | J | 0.50 | 0.095 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 0.89 | | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.073 | J | 0.20 | 0.055 | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.11 | J | 0.20 | 0.052 | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: OA-1 OUTDOOR AIR (Continued)

## Lab Sample ID: 200-65790-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | 0.22 | | 0.20 | 0.042 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.16 | J | 0.20 | 0.050 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | 0.42 | J | 1.5 | 0.41 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.19 | J | 0.93 | 0.18 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 4.6 | J | 12 | 3.8 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.36 | J | 0.64 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.25 | | 0.22 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chlorodifluoromethane | 0.72 | J | 1.8 | 0.42 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.82 | J | 1.0 | 0.31 | ug/m3 | 1 | | TO-15 | Total/NA |
| Dichlorodifluoromethane | 1.7 | J | 2.5 | 0.54 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.33 | J | 0.87 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.76 | J | 2.2 | 0.41 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 2.1 | | 1.2 | 0.48 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.30 | J | 0.82 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 0.46 | J | 0.87 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 0.84 | | 0.75 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.87 | J | 1.1 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: SSV-1**
**Date Collected: 11/10/22 16:10**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-65790-1**
**Matrix: Air**

## Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **18** | | 0.20 | 0.044 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.043 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | 0.053 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **1,1-Dichloroethane** | **0.56** | | 0.20 | 0.025 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,1-Dichloroethene | 0.050 | U | 0.050 | 0.026 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.33 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **1,2,4-Trimethylbenzene** | **0.16** | **J** | 0.20 | 0.080 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.042 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.066 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.093 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.094 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.048 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **1,3,5-Trimethylbenzene** | **0.076** | **J** | 0.20 | 0.047 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.039 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.089 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | 0.038 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | 0.046 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **4-Ethyltoluene** | **0.062** | **J** | 0.20 | 0.049 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | 0.061 | ppb v/v | | | 11/19/22 05:05 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Acetone** | **15** | | 5.0 | 1.6 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Benzene** | **0.58** | | 0.20 | 0.044 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | 0.088 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Bromoform | 0.20 | U | 0.20 | 0.12 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Bromomethane | 0.20 | U | 0.20 | 0.071 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Carbon disulfide** | **8.4** | | 0.50 | 0.13 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Carbon tetrachloride** | **0.083** | | 0.035 | 0.022 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Chloroethane | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Chloroform** | **1.6** | | 0.20 | 0.041 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Chloromethane | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **cis-1,2-Dichloroethene** | **0.35** | | 0.050 | 0.021 | ppb v/v | | | 11/19/22 05:05 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Cumene** | **0.049** | **J** | 0.20 | 0.041 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Cyclohexane** | **22** | | 0.20 | 0.058 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.063 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Dichlorodifluoromethane | 0.50 | U | 0.50 | 0.11 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Ethylbenzene** | **1.2** | | 0.20 | 0.052 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | 1.6 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **m,p-Xylene** | **2.0** | | 0.50 | 0.095 | ppb v/v | | | 11/19/22 05:05 | 1 |

## Client Sample ID: SSV-1
**Lab Sample ID: 200-65790-1**

**Date Collected: 11/10/22 16:10**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **1.4** | | 0.50 | 0.49 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | 0.14 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.036 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Naphthalene | 0.50 | U | 0.50 | 0.30 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **n-Butane** | **110** | **E** | 0.50 | 0.20 | ppb v/v | | | 11/19/22 05:05 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **n-Heptane** | **4.6** | | 0.20 | 0.055 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **n-Hexane** | **28** | | 0.50 | 0.11 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **n-Propylbenzene** | **0.051** | **J** | 0.20 | 0.047 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **o-Xylene** | **0.27** | | 0.20 | 0.052 | ppb v/v | | | 11/19/22 05:05 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Styrene** | **0.12** | **J** | 0.20 | 0.059 | ppb v/v | | | 11/19/22 05:05 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | 1.2 | ppb v/v | | | 11/19/22 05:05 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Tetrachloroethene** | **0.19** | **J** | 0.20 | 0.021 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Toluene** | **1.0** | | 0.20 | 0.042 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **trans-1,2-Dichloroethene** | **0.097** | **J** | 0.20 | 0.023 | ppb v/v | | | 11/19/22 05:05 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.054 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Trichloroethene** | **16** | | 0.037 | 0.025 | ppb v/v | | | 11/19/22 05:05 | 1 |
| **Trichlorofluoromethane** | **2.0** | | 0.20 | 0.050 | ppb v/v | | | 11/19/22 05:05 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | 0.021 | ppb v/v | | | 11/19/22 05:05 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **98** | | 1.1 | 0.24 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 0.30 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 0.40 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | 0.41 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **1,1-Dichloroethane** | **2.2** | | 0.81 | 0.10 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.10 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 2.4 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **1,2,4-Trimethylbenzene** | **0.76** | **J** | 0.98 | 0.39 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 0.32 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 0.40 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.38 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.43 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 0.34 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **1,3,5-Trimethylbenzene** | **0.37** | **J** | 0.98 | 0.23 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.086 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 0.44 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 0.54 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 1,4-Dioxane | 18 | U | 18 | 4.7 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | 0.18 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | 0.24 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | 0.38 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **4-Ethyltoluene** | **0.31** | **J** | 0.98 | 0.24 | ug/m3 | | | 11/19/22 05:05 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | 0.33 | ug/m3 | | | 11/19/22 05:05 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: SSV-1**
**Date Collected: 11/10/22 16:10**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-65790-1**
**Matrix: Air**

## Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | 0.53 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Acetone** | **36** | | 12 | 3.8 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Benzene** | **1.9** | | 0.64 | 0.14 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | 0.46 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | 0.34 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.22 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Bromoform | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Bromomethane | 0.78 | U | 0.78 | 0.28 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Carbon disulfide** | **26** | | 1.6 | 0.40 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Carbon tetrachloride** | **0.52** | | 0.22 | 0.14 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.20 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | 0.42 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Chloroethane | 1.3 | U | 1.3 | 0.47 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Chloroform** | **7.9** | | 0.98 | 0.20 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.31 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **cis-1,2-Dichloroethene** | **1.4** | | 0.20 | 0.083 | ug/m3 | | | 11/19/22 05:05 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.20 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Cumene** | **0.24** | **J** | 0.98 | 0.20 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Cyclohexane** | **75** | | 0.69 | 0.20 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | 0.54 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Dichlorodifluoromethane | 2.5 | U | 2.5 | 0.54 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Ethylbenzene** | **5.3** | | 0.87 | 0.23 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Isopropyl alcohol | 12 | U | 12 | 3.9 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **m,p-Xylene** | **8.8** | | 2.2 | 0.41 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 0.61 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Methyl Ethyl Ketone (2-Butanone)** | **4.0** | | 1.5 | 1.4 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | 0.57 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.13 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | 0.63 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Naphthalene | 2.6 | U | 2.6 | 1.6 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **n-Butane** | **260** | **E** | 1.2 | 0.48 | ug/m3 | | | 11/19/22 05:05 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | 0.60 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **n-Heptane** | **19** | | 0.82 | 0.23 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **n-Hexane** | **100** | | 1.8 | 0.39 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **n-Propylbenzene** | **0.25** | **J** | 0.98 | 0.23 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **o-Xylene** | **1.2** | | 0.87 | 0.23 | ug/m3 | | | 11/19/22 05:05 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | 0.25 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Styrene** | **0.50** | **J** | 0.85 | 0.25 | ug/m3 | | | 11/19/22 05:05 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | 3.6 | ug/m3 | | | 11/19/22 05:05 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | 0.26 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Tetrachloroethene** | **1.3** | **J** | 1.4 | 0.14 | ug/m3 | | | 11/19/22 05:05 | 1 |
| Tetrahydrofuran | 15 | U | 15 | 3.8 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Toluene** | **3.9** | | 0.75 | 0.16 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **trans-1,2-Dichloroethene** | **0.39** | **J** | 0.79 | 0.091 | ug/m3 | | | 11/19/22 05:05 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.25 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Trichloroethene** | **88** | | 0.20 | 0.13 | ug/m3 | | | 11/19/22 05:05 | 1 |
| **Trichlorofluoromethane** | **11** | | 1.1 | 0.28 | ug/m3 | | | 11/19/22 05:05 | 1 |

## Client Sample ID: SSV-1

**Date Collected: 11/10/22 16:10**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-65790-1

**Matrix: Air**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | 0.20 | U | 0.20 | 0.054 | ug/m3 | | | 11/19/22 05:05 | 1 |

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **18** | **D** | 1.0 | 0.22 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.22 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.37 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,1,2-Trichlorotrifluoroethane | 1.0 | U | 1.0 | 0.27 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **1,1-Dichloroethane** | **0.57** | **J D** | 1.0 | 0.13 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,1-Dichloroethene | 0.25 | U | 0.25 | 0.13 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,2,4-Trichlorobenzene | 2.5 | U | 2.5 | 1.7 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.40 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.21 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.33 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.47 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.47 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,2-Dichlorotetrafluoroethane | 1.0 | U | 1.0 | 0.24 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.24 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,3-Butadiene | 1.0 | U | 1.0 | 0.20 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.37 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.45 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 1,4-Dioxane | 25 | U | 25 | 6.5 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 2,2,4-Trimethylpentane | 1.0 | U | 1.0 | 0.19 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | 0.23 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 3-Chloropropene | 2.5 | U | 2.5 | 0.60 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 4-Ethyltoluene | 1.0 | U | 1.0 | 0.25 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 4-Isopropyltoluene | 1.0 | U | 1.0 | 0.31 | ppb v/v | | | 11/19/22 05:59 | 5 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.5 | U | 2.5 | 0.65 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Acetone** | **15** | **J D** | 25 | 8.0 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Benzene** | **0.60** | **J D** | 1.0 | 0.22 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Benzyl chloride | 1.0 | U | 1.0 | 0.44 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.25 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Bromoethene(Vinyl Bromide) | 1.0 | U | 1.0 | 0.25 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Bromoform | 1.0 | U | 1.0 | 0.60 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Bromomethane | 1.0 | U | 1.0 | 0.36 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Carbon disulfide** | **8.7** | **D** | 2.5 | 0.65 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Carbon tetrachloride | 0.18 | U | 0.18 | 0.11 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.22 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Chlorodifluoromethane | 2.5 | U | 2.5 | 0.60 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Chloroethane | 2.5 | U | 2.5 | 0.90 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Chloroform** | **1.6** | **D** | 1.0 | 0.21 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Chloromethane | 2.5 | U | 2.5 | 0.75 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **cis-1,2-Dichloroethene** | **0.35** | **D** | 0.25 | 0.11 | ppb v/v | | | 11/19/22 05:59 | 5 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.23 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Cumene | 1.0 | U | 1.0 | 0.21 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Cyclohexane** | **22** | **D** | 1.0 | 0.29 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Dichlorodifluoromethane | 2.5 | U | 2.5 | 0.55 | ppb v/v | | | 11/19/22 05:59 | 5 |

## Client Sample ID: SSV-1
**Lab Sample ID: 200-65790-1**

**Date Collected: 11/10/22 16:10**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ethylbenzene** | **1.2** | **D** | 1.0 | 0.26 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Hexachlorobutadiene | 1.0 | U | 1.0 | 0.55 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Isopropyl alcohol | 25 | U | 25 | 8.0 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **m,p-Xylene** | **2.0** | **J D** | 2.5 | 0.48 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Methyl Butyl Ketone (2-Hexanone) | 2.5 | U | 2.5 | 0.75 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Methyl Ethyl Ketone (2-Butanone) | 2.5 | U | 2.5 | 2.5 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Methyl methacrylate | 2.5 | U | 2.5 | 0.70 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.18 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Methylene Chloride | 2.5 | U | 2.5 | 0.90 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Naphthalene | 2.5 | U | 2.5 | 1.5 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **n-Butane** | **130** | **D** | 2.5 | 1.0 | ppb v/v | | | 11/19/22 05:59 | 5 |
| n-Butylbenzene | 1.0 | U | 1.0 | 0.55 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **n-Heptane** | **4.6** | **D** | 1.0 | 0.28 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **n-Hexane** | **30** | **D** | 2.5 | 0.55 | ppb v/v | | | 11/19/22 05:59 | 5 |
| n-Propylbenzene | 1.0 | U | 1.0 | 0.24 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **o-Xylene** | **0.26** | **J D** | 1.0 | 0.26 | ppb v/v | | | 11/19/22 05:59 | 5 |
| sec-Butylbenzene | 1.0 | U | 1.0 | 0.23 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Styrene | 1.0 | U | 1.0 | 0.30 | ppb v/v | | | 11/19/22 05:59 | 5 |
| tert-Butyl alcohol | 25 | U | 25 | 6.0 | ppb v/v | | | 11/19/22 05:59 | 5 |
| tert-Butylbenzene | 1.0 | U | 1.0 | 0.24 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Tetrachloroethene** | **0.18** | **J D** | 1.0 | 0.11 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Tetrahydrofuran | 25 | U | 25 | 6.5 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Toluene** | **1.0** | **D** | 1.0 | 0.21 | ppb v/v | | | 11/19/22 05:59 | 5 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.12 | ppb v/v | | | 11/19/22 05:59 | 5 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.27 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Trichloroethene** | **17** | **D** | 0.19 | 0.13 | ppb v/v | | | 11/19/22 05:59 | 5 |
| **Trichlorofluoromethane** | **2.1** | **D** | 1.0 | 0.25 | ppb v/v | | | 11/19/22 05:59 | 5 |
| Vinyl chloride | 0.39 | U | 0.39 | 0.11 | ppb v/v | | | 11/19/22 05:59 | 5 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **99** | **D** | 5.5 | 1.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,1,2,2-Tetrachloroethane | 6.9 | U | 6.9 | 1.5 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,1,2-Trichloroethane | 5.5 | U | 5.5 | 2.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,1,2-Trichlorotrifluoroethane | 7.7 | U | 7.7 | 2.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **1,1-Dichloroethane** | **2.3** | **J D** | 4.0 | 0.51 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.52 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,2,4-Trichlorobenzene | 19 | U | 19 | 12 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,2,4-Trimethylbenzene | 4.9 | U | 4.9 | 2.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,2-Dibromoethane | 7.7 | U | 7.7 | 1.6 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,2-Dichlorobenzene | 6.0 | U | 6.0 | 2.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,2-Dichloroethane | 4.0 | U | 4.0 | 1.9 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,2-Dichloropropane | 4.6 | U | 4.6 | 2.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,2-Dichlorotetrafluoroethane | 7.0 | U | 7.0 | 1.7 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,3,5-Trimethylbenzene | 4.9 | U | 4.9 | 1.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,3-Butadiene | 2.2 | U | 2.2 | 0.43 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,3-Dichlorobenzene | 6.0 | U | 6.0 | 2.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,4-Dichlorobenzene | 6.0 | U | 6.0 | 2.7 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 1,4-Dioxane | 90 | U | 90 | 23 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 2,2,4-Trimethylpentane | 4.7 | U | 4.7 | 0.89 | ug/m3 | | | 11/19/22 05:59 | 5 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: SSV-1**
**Date Collected: 11/10/22 16:10**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-65790-1**
**Matrix: Air**

## Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 5.2 | U | 5.2 | 1.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 3-Chloropropene | 7.8 | U | 7.8 | 1.9 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 4-Ethyltoluene | 4.9 | U | 4.9 | 1.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 4-Isopropyltoluene | 5.5 | U | 5.5 | 1.7 | ug/m3 | | | 11/19/22 05:59 | 5 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10 | U | 10 | 2.7 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Acetone** | **35** | **J D** | 59 | 19 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Benzene** | **1.9** | **J D** | 3.2 | 0.70 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Benzyl chloride | 5.2 | U | 5.2 | 2.3 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Bromodichloromethane | 6.7 | U | 6.7 | 1.7 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Bromoethene(Vinyl Bromide) | 4.4 | U | 4.4 | 1.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Bromoform | 10 | U | 10 | 6.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Bromomethane | 3.9 | U | 3.9 | 1.4 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Carbon disulfide** | **27** | **D** | 7.8 | 2.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Carbon tetrachloride | 1.1 | U | 1.1 | 0.69 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Chlorobenzene | 4.6 | U | 4.6 | 1.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Chlorodifluoromethane | 8.8 | U | 8.8 | 2.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Chloroethane | 6.6 | U | 6.6 | 2.4 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Chloroform** | **8.0** | **D** | 4.9 | 1.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Chloromethane | 5.2 | U | 5.2 | 1.5 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **cis-1,2-Dichloroethene** | **1.4** | **D** | 1.0 | 0.42 | ug/m3 | | | 11/19/22 05:59 | 5 |
| cis-1,3-Dichloropropene | 4.5 | U | 4.5 | 1.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Cumene | 4.9 | U | 4.9 | 1.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Cyclohexane** | **75** | **D** | 3.4 | 1.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Dibromochloromethane | 8.5 | U | 8.5 | 2.7 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Dichlorodifluoromethane | 12 | U | 12 | 2.7 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Ethylbenzene** | **5.3** | **D** | 4.3 | 1.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Hexachlorobutadiene | 11 | U | 11 | 5.9 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Isopropyl alcohol | 61 | U | 61 | 20 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **m,p-Xylene** | **8.6** | **J D** | 11 | 2.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Methyl Butyl Ketone (2-Hexanone) | 10 | U | 10 | 3.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Methyl Ethyl Ketone (2-Butanone) | 7.4 | U | 7.4 | 7.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Methyl methacrylate | 10 | U | 10 | 2.9 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Methyl tert-butyl ether | 3.6 | U | 3.6 | 0.65 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Methylene Chloride | 8.7 | U | 8.7 | 3.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Naphthalene | 13 | U | 13 | 7.9 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **n-Butane** | **310** | **D** | 5.9 | 2.4 | ug/m3 | | | 11/19/22 05:59 | 5 |
| n-Butylbenzene | 5.5 | U | 5.5 | 3.0 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **n-Heptane** | **19** | **D** | 4.1 | 1.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **n-Hexane** | **100** | **D** | 8.8 | 1.9 | ug/m3 | | | 11/19/22 05:59 | 5 |
| n-Propylbenzene | 4.9 | U | 4.9 | 1.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **o-Xylene** | **1.1** | **J D** | 4.3 | 1.1 | ug/m3 | | | 11/19/22 05:59 | 5 |
| sec-Butylbenzene | 5.5 | U | 5.5 | 1.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Styrene | 4.3 | U | 4.3 | 1.3 | ug/m3 | | | 11/19/22 05:59 | 5 |
| tert-Butyl alcohol | 76 | U | 76 | 18 | ug/m3 | | | 11/19/22 05:59 | 5 |
| tert-Butylbenzene | 5.5 | U | 5.5 | 1.3 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Tetrachloroethene** | **1.2** | **J D** | 6.8 | 0.71 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Tetrahydrofuran | 74 | U | 74 | 19 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Toluene** | **3.8** | **D** | 3.8 | 0.79 | ug/m3 | | | 11/19/22 05:59 | 5 |

## Client Sample ID: SSV-1
**Lab Sample ID: 200-65790-1**

**Date Collected: 11/10/22 16:10**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 4.0 | U | 4.0 | 0.46 | ug/m3 | | | 11/19/22 05:59 | 5 |
| trans-1,3-Dichloropropene | 4.5 | U | 4.5 | 1.2 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Trichloroethene** | **89** | **D** | 1.0 | 0.67 | ug/m3 | | | 11/19/22 05:59 | 5 |
| **Trichlorofluoromethane** | **12** | **D** | 5.6 | 1.4 | ug/m3 | | | 11/19/22 05:59 | 5 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.27 | ug/m3 | | | 11/19/22 05:59 | 5 |

## Client Sample ID: IA-1
**Lab Sample ID: 200-65790-2**

**Date Collected: 11/10/22 15:15**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **0.097** | **J** | 0.20 | 0.044 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.043 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | 0.053 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.025 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,1-Dichloroethene | 0.050 | U | 0.050 | 0.026 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.33 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **1,2,4-Trimethylbenzene** | **0.20** | | 0.20 | 0.080 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.042 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.066 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.093 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.094 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.048 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **1,3,5-Trimethylbenzene** | **0.085** | **J** | 0.20 | 0.047 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.039 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.089 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **2,2,4-Trimethylpentane** | **0.061** | **J** | 0.20 | 0.038 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | 0.046 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **4-Ethyltoluene** | **0.062** | **J** | 0.20 | 0.049 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | 0.061 | ppb v/v | | | 11/17/22 15:52 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Acetone** | **4.8** | **J** | 5.0 | 1.6 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Benzene** | **0.11** | **J** | 0.20 | 0.044 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | 0.088 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Bromoform | 0.20 | U | 0.20 | 0.12 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Bromomethane | 0.20 | U | 0.20 | 0.071 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Carbon tetrachloride** | **0.042** | | 0.035 | 0.022 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Chlorodifluoromethane** | **0.19** | **J** | 0.50 | 0.12 | ppb v/v | | | 11/17/22 15:52 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: IA-1**
**Date Collected: 11/10/22 15:15**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-65790-2**
**Matrix: Air**

## Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Chloroform | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Chloromethane** | **0.37** | **J** | 0.50 | 0.15 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **cis-1,2-Dichloroethene** | **0.39** | | 0.050 | 0.021 | ppb v/v | | | 11/17/22 15:52 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Cumene | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Cyclohexane | 0.20 | U | 0.20 | 0.058 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.063 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Dichlorodifluoromethane** | **0.32** | **J** | 0.50 | 0.11 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Ethylbenzene** | **1.0** | | 0.20 | 0.052 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | 1.6 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **m,p-Xylene** | **2.0** | | 0.50 | 0.095 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | U | 0.50 | 0.49 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | 0.14 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.036 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Naphthalene | 0.50 | U | 0.50 | 0.30 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **n-Butane** | **0.63** | | 0.50 | 0.20 | ppb v/v | | | 11/17/22 15:52 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/17/22 15:52 | 1 |
| n-Heptane | 0.20 | U | 0.20 | 0.055 | ppb v/v | | | 11/17/22 15:52 | 1 |
| n-Hexane | 0.50 | U | 0.50 | 0.11 | ppb v/v | | | 11/17/22 15:52 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **o-Xylene** | **0.28** | | 0.20 | 0.052 | ppb v/v | | | 11/17/22 15:52 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Styrene | 0.20 | U | 0.20 | 0.059 | ppb v/v | | | 11/17/22 15:52 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | 1.2 | ppb v/v | | | 11/17/22 15:52 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Tetrachloroethene** | **0.084** | **J** | 0.20 | 0.021 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Toluene** | **0.28** | | 0.20 | 0.042 | ppb v/v | | | 11/17/22 15:52 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.023 | ppb v/v | | | 11/17/22 15:52 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.054 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Trichloroethene** | **3.0** | | 0.037 | 0.025 | ppb v/v | | | 11/17/22 15:52 | 1 |
| **Trichlorofluoromethane** | **2.3** | | 0.20 | 0.050 | ppb v/v | | | 11/17/22 15:52 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | 0.021 | ppb v/v | | | 11/17/22 15:52 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **0.53** | **J** | 1.1 | 0.24 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 0.30 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 0.40 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | 0.41 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.10 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.10 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 2.4 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **1,2,4-Trimethylbenzene** | **0.99** | | 0.98 | 0.39 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 0.32 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 0.40 | ug/m3 | | | 11/17/22 15:52 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: IA-1**
**Date Collected: 11/10/22 15:15**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-65790-2**
**Matrix: Air**

## Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.38 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.43 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 0.34 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **1,3,5-Trimethylbenzene** | **0.42** | **J** | 0.98 | 0.23 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.086 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 0.44 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 0.54 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 1,4-Dioxane | 18 | U | 18 | 4.7 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **2,2,4-Trimethylpentane** | **0.29** | **J** | 0.93 | 0.18 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | 0.24 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | 0.38 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **4-Ethyltoluene** | **0.31** | **J** | 0.98 | 0.24 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | 0.33 | ug/m3 | | | 11/17/22 15:52 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | 0.53 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Acetone** | **11** | **J** | 12 | 3.8 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Benzene** | **0.34** | **J** | 0.64 | 0.14 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | 0.46 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | 0.34 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.22 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Bromoform | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Bromomethane | 0.78 | U | 0.78 | 0.28 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | 0.40 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Carbon tetrachloride** | **0.26** | | 0.22 | 0.14 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.20 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Chlorodifluoromethane** | **0.67** | **J** | 1.8 | 0.42 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Chloroethane | 1.3 | U | 1.3 | 0.47 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Chloroform | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Chloromethane** | **0.77** | **J** | 1.0 | 0.31 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **cis-1,2-Dichloroethene** | **1.6** | | 0.20 | 0.083 | ug/m3 | | | 11/17/22 15:52 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.20 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Cumene | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Cyclohexane | 0.69 | U | 0.69 | 0.20 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | 0.54 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Dichlorodifluoromethane** | **1.6** | **J** | 2.5 | 0.54 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Ethylbenzene** | **4.4** | | 0.87 | 0.23 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Isopropyl alcohol | 12 | U | 12 | 3.9 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **m,p-Xylene** | **8.9** | | 2.2 | 0.41 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 0.61 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | U | 1.5 | 1.4 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | 0.57 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.13 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | 0.63 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Naphthalene | 2.6 | U | 2.6 | 1.6 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **n-Butane** | **1.5** | | 1.2 | 0.48 | ug/m3 | | | 11/17/22 15:52 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | 0.60 | ug/m3 | | | 11/17/22 15:52 | 1 |
| n-Heptane | 0.82 | U | 0.82 | 0.23 | ug/m3 | | | 11/17/22 15:52 | 1 |
| n-Hexane | 1.8 | U | 1.8 | 0.39 | ug/m3 | | | 11/17/22 15:52 | 1 |

## Client Sample ID: IA-1
**Lab Sample ID: 200-65790-2**
**Date Collected: 11/10/22 15:15**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.98 | U | 0.98 | 0.23 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **o-Xylene** | **1.2** | | 0.87 | 0.23 | ug/m3 | | | 11/17/22 15:52 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | 0.25 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Styrene | 0.85 | U | 0.85 | 0.25 | ug/m3 | | | 11/17/22 15:52 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | 3.6 | ug/m3 | | | 11/17/22 15:52 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | 0.26 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Tetrachloroethene** | **0.57** | **J** | 1.4 | 0.14 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Tetrahydrofuran | 15 | U | 15 | 3.8 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Toluene** | **1.1** | | 0.75 | 0.16 | ug/m3 | | | 11/17/22 15:52 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.091 | ug/m3 | | | 11/17/22 15:52 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.25 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Trichloroethene** | **16** | | 0.20 | 0.13 | ug/m3 | | | 11/17/22 15:52 | 1 |
| **Trichlorofluoromethane** | **13** | | 1.1 | 0.28 | ug/m3 | | | 11/17/22 15:52 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | 0.054 | ug/m3 | | | 11/17/22 15:52 | 1 |

## Client Sample ID: OA-1 OUTDOOR AIR
**Lab Sample ID: 200-65790-3**
**Date Collected: 11/10/22 16:21**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

### Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.043 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **1,1,2-Trichlorotrifluoroethane** | **0.055** | **J** | 0.20 | 0.053 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.025 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,1-Dichloroethene | 0.050 | U | 0.050 | 0.026 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.33 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | 0.080 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.042 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.066 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.093 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.094 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.048 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.039 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.089 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **2,2,4-Trimethylpentane** | **0.040** | **J** | 0.20 | 0.038 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | 0.046 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | 0.049 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | 0.061 | ppb v/v | | | 11/17/22 16:45 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Acetone** | **1.9** | **J** | 5.0 | 1.6 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Benzene** | **0.11** | **J** | 0.20 | 0.044 | ppb v/v | | | 11/17/22 16:45 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: OA-1 OUTDOOR AIR**
**Lab Sample ID: 200-65790-3**
**Date Collected: 11/10/22 16:21**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

## Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.20 | U | 0.20 | 0.088 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Bromoform | 0.20 | U | 0.20 | 0.12 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Bromomethane | 0.20 | U | 0.20 | 0.071 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Carbon tetrachloride** | **0.039** | | 0.035 | 0.022 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Chlorodifluoromethane** | **0.20** | **J** | 0.50 | 0.12 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Chloroethane | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Chloroform | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Chloromethane** | **0.40** | **J** | 0.50 | 0.15 | ppb v/v | | | 11/17/22 16:45 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | 0.021 | ppb v/v | | | 11/17/22 16:45 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Cumene | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Cyclohexane | 0.20 | U | 0.20 | 0.058 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.063 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Dichlorodifluoromethane** | **0.35** | **J** | 0.50 | 0.11 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Ethylbenzene** | **0.076** | **J** | 0.20 | 0.052 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | 1.6 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **m,p-Xylene** | **0.18** | **J** | 0.50 | 0.095 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | U | 0.50 | 0.49 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | 0.14 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.036 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Naphthalene | 0.50 | U | 0.50 | 0.30 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **n-Butane** | **0.89** | | 0.50 | 0.20 | ppb v/v | | | 11/17/22 16:45 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **n-Heptane** | **0.073** | **J** | 0.20 | 0.055 | ppb v/v | | | 11/17/22 16:45 | 1 |
| n-Hexane | 0.50 | U | 0.50 | 0.11 | ppb v/v | | | 11/17/22 16:45 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **o-Xylene** | **0.11** | **J** | 0.20 | 0.052 | ppb v/v | | | 11/17/22 16:45 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Styrene | 0.20 | U | 0.20 | 0.059 | ppb v/v | | | 11/17/22 16:45 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | 1.2 | ppb v/v | | | 11/17/22 16:45 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | 0.021 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Toluene** | **0.22** | | 0.20 | 0.042 | ppb v/v | | | 11/17/22 16:45 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.023 | ppb v/v | | | 11/17/22 16:45 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.054 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Trichloroethene | 0.037 | U | 0.037 | 0.025 | ppb v/v | | | 11/17/22 16:45 | 1 |
| **Trichlorofluoromethane** | **0.16** | **J** | 0.20 | 0.050 | ppb v/v | | | 11/17/22 16:45 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | 0.021 | ppb v/v | | | 11/17/22 16:45 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | 0.24 | ug/m3 | | | 11/17/22 16:45 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: OA-1 OUTDOOR AIR**
**Lab Sample ID: 200-65790-3**
**Date Collected: 11/10/22 16:21**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 0.30 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 0.40 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **1,1,2-Trichlorotrifluoroethane** | **0.42** | **J** | 1.5 | 0.41 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.10 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.10 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 2.4 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | 0.39 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 0.32 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 0.40 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.38 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.43 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 0.34 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | 0.23 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.086 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 0.44 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 0.54 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 1,4-Dioxane | 18 | U | 18 | 4.7 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **2,2,4-Trimethylpentane** | **0.19** | **J** | 0.93 | 0.18 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | 0.24 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | 0.38 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | 0.24 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | 0.33 | ug/m3 | | | 11/17/22 16:45 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | 0.53 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Acetone** | **4.6** | **J** | 12 | 3.8 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Benzene** | **0.36** | **J** | 0.64 | 0.14 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | 0.46 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | 0.34 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.22 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Bromoform | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Bromomethane | 0.78 | U | 0.78 | 0.28 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | 0.40 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Carbon tetrachloride** | **0.25** | | 0.22 | 0.14 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.20 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Chlorodifluoromethane** | **0.72** | **J** | 1.8 | 0.42 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Chloroethane | 1.3 | U | 1.3 | 0.47 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Chloroform | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Chloromethane** | **0.82** | **J** | 1.0 | 0.31 | ug/m3 | | | 11/17/22 16:45 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.083 | ug/m3 | | | 11/17/22 16:45 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.20 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Cumene | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Cyclohexane | 0.69 | U | 0.69 | 0.20 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | 0.54 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Dichlorodifluoromethane** | **1.7** | **J** | 2.5 | 0.54 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Ethylbenzene** | **0.33** | **J** | 0.87 | 0.23 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Isopropyl alcohol | 12 | U | 12 | 3.9 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **m,p-Xylene** | **0.76** | **J** | 2.2 | 0.41 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 0.61 | ug/m3 | | | 11/17/22 16:45 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

**Client Sample ID: OA-1 OUTDOOR AIR**
**Lab Sample ID: 200-65790-3**
**Date Collected: 11/10/22 16:21**
**Matrix: Air**
**Date Received: 11/17/22 10:40**
**Sample Container: Summa Canister 6L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | U | 1.5 | 1.4 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | 0.57 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.13 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | 0.63 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Naphthalene | 2.6 | U | 2.6 | 1.6 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **n-Butane** | **2.1** | | 1.2 | 0.48 | ug/m3 | | | 11/17/22 16:45 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | 0.60 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **n-Heptane** | **0.30** | **J** | 0.82 | 0.23 | ug/m3 | | | 11/17/22 16:45 | 1 |
| n-Hexane | 1.8 | U | 1.8 | 0.39 | ug/m3 | | | 11/17/22 16:45 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | 0.23 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **o-Xylene** | **0.46** | **J** | 0.87 | 0.23 | ug/m3 | | | 11/17/22 16:45 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | 0.25 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Styrene | 0.85 | U | 0.85 | 0.25 | ug/m3 | | | 11/17/22 16:45 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | 3.6 | ug/m3 | | | 11/17/22 16:45 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | 0.26 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | 0.14 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Tetrahydrofuran | 15 | U | 15 | 3.8 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Toluene** | **0.84** | | 0.75 | 0.16 | ug/m3 | | | 11/17/22 16:45 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.091 | ug/m3 | | | 11/17/22 16:45 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.25 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Trichloroethene | 0.20 | U | 0.20 | 0.13 | ug/m3 | | | 11/17/22 16:45 | 1 |
| **Trichlorofluoromethane** | **0.87** | **J** | 1.1 | 0.28 | ug/m3 | | | 11/17/22 16:45 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | 0.054 | ug/m3 | | | 11/17/22 16:45 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-185868/5**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.043 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | 0.053 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.025 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,1-Dichloroethene | 0.050 | U | 0.050 | 0.026 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.33 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | 0.080 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.042 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.066 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.093 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.094 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.048 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.039 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.089 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | 0.038 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | 0.046 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | 0.049 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | 0.061 | ppb v/v | | | 11/17/22 10:36 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Acetone | 5.0 | U | 5.0 | 1.6 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Benzene | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | 0.088 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Bromoform | 0.20 | U | 0.20 | 0.12 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Bromomethane | 0.20 | U | 0.20 | 0.071 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Carbon tetrachloride | 0.035 | U | 0.035 | 0.022 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Chloroethane | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Chloroform | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Chloromethane | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/17/22 10:36 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | 0.021 | ppb v/v | | | 11/17/22 10:36 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Cumene | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Cyclohexane | 0.20 | U | 0.20 | 0.058 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.063 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Dichlorodifluoromethane | 0.50 | U | 0.50 | 0.11 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | 0.052 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | 1.6 | ppb v/v | | | 11/17/22 10:36 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | 0.095 | ppb v/v | | | 11/17/22 10:36 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-185868/5**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | U | 0.50 | 0.49 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | 0.14 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.036 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Naphthalene | 0.50 | U | 0.50 | 0.30 | ppb v/v | | | 11/17/22 10:36 | 1 |
| n-Butane | 0.50 | U | 0.50 | 0.20 | ppb v/v | | | 11/17/22 10:36 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/17/22 10:36 | 1 |
| n-Heptane | 0.20 | U | 0.20 | 0.055 | ppb v/v | | | 11/17/22 10:36 | 1 |
| n-Hexane | 0.50 | U | 0.50 | 0.11 | ppb v/v | | | 11/17/22 10:36 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 10:36 | 1 |
| o-Xylene | 0.20 | U | 0.20 | 0.052 | ppb v/v | | | 11/17/22 10:36 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Styrene | 0.20 | U | 0.20 | 0.059 | ppb v/v | | | 11/17/22 10:36 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | 1.2 | ppb v/v | | | 11/17/22 10:36 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | 0.021 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Toluene | 0.20 | U | 0.20 | 0.042 | ppb v/v | | | 11/17/22 10:36 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.023 | ppb v/v | | | 11/17/22 10:36 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.054 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Trichloroethene | 0.037 | U | 0.037 | 0.025 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Trichlorofluoromethane | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/17/22 10:36 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | 0.021 | ppb v/v | | | 11/17/22 10:36 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | 0.24 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 0.30 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 0.40 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | 0.41 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.10 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.10 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 2.4 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | 0.39 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 0.32 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 0.40 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.38 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.43 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 0.34 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | 0.23 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.086 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 0.44 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 0.54 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 1,4-Dioxane | 18 | U | 18 | 4.7 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | 0.18 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | 0.24 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | 0.38 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | 0.24 | ug/m3 | | | 11/17/22 10:36 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | 0.33 | ug/m3 | | | 11/17/22 10:36 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-185868/5**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | 0.53 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Acetone | 12 | U | 12 | 3.8 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Benzene | 0.64 | U | 0.64 | 0.14 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | 0.46 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | 0.34 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.22 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Bromoform | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Bromomethane | 0.78 | U | 0.78 | 0.28 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | 0.40 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Carbon tetrachloride | 0.22 | U | 0.22 | 0.14 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.20 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | 0.42 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Chloroethane | 1.3 | U | 1.3 | 0.47 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Chloroform | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.31 | ug/m3 | | | 11/17/22 10:36 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.083 | ug/m3 | | | 11/17/22 10:36 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.20 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Cumene | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Cyclohexane | 0.69 | U | 0.69 | 0.20 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | 0.54 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Dichlorodifluoromethane | 2.5 | U | 2.5 | 0.54 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Ethylbenzene | 0.87 | U | 0.87 | 0.23 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Isopropyl alcohol | 12 | U | 12 | 3.9 | ug/m3 | | | 11/17/22 10:36 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | 0.41 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 0.61 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | U | 1.5 | 1.4 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | 0.57 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.13 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | 0.63 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Naphthalene | 2.6 | U | 2.6 | 1.6 | ug/m3 | | | 11/17/22 10:36 | 1 |
| n-Butane | 1.2 | U | 1.2 | 0.48 | ug/m3 | | | 11/17/22 10:36 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | 0.60 | ug/m3 | | | 11/17/22 10:36 | 1 |
| n-Heptane | 0.82 | U | 0.82 | 0.23 | ug/m3 | | | 11/17/22 10:36 | 1 |
| n-Hexane | 1.8 | U | 1.8 | 0.39 | ug/m3 | | | 11/17/22 10:36 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | 0.23 | ug/m3 | | | 11/17/22 10:36 | 1 |
| o-Xylene | 0.87 | U | 0.87 | 0.23 | ug/m3 | | | 11/17/22 10:36 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | 0.25 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Styrene | 0.85 | U | 0.85 | 0.25 | ug/m3 | | | 11/17/22 10:36 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | 3.6 | ug/m3 | | | 11/17/22 10:36 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | 0.26 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | 0.14 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Tetrahydrofuran | 15 | U | 15 | 3.8 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Toluene | 0.75 | U | 0.75 | 0.16 | ug/m3 | | | 11/17/22 10:36 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.091 | ug/m3 | | | 11/17/22 10:36 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.25 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Trichloroethene | 0.20 | U | 0.20 | 0.13 | ug/m3 | | | 11/17/22 10:36 | 1 |
| Trichlorofluoromethane | 1.1 | U | 1.1 | 0.28 | ug/m3 | | | 11/17/22 10:36 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-185868/5**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | 0.20 | U | 0.20 | 0.054 | ug/m3 | | | 11/17/22 10:36 | 1 |

**Lab Sample ID: LCS 200-185868/4**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.0 | 9.91 | | ppb v/v | | 99 | 72 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.47 | | ppb v/v | | 95 | 74 - 126 |
| 1,1,2-Trichloroethane | 10.0 | 9.68 | | ppb v/v | | 97 | 75 - 126 |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 9.55 | | ppb v/v | | 96 | 70 - 121 |
| 1,1-Dichloroethane | 10.0 | 9.43 | | ppb v/v | | 94 | 66 - 130 |
| 1,1-Dichloroethene | 10.0 | 9.94 | | ppb v/v | | 99 | 68 - 120 |
| 1,2,4-Trichlorobenzene | 10.0 | 9.41 | | ppb v/v | | 94 | 50 - 150 |
| 1,2,4-Trimethylbenzene | 10.0 | 9.10 | | ppb v/v | | 91 | 71 - 129 |
| 1,2-Dibromoethane | 10.0 | 9.48 | | ppb v/v | | 95 | 78 - 122 |
| 1,2-Dichlorobenzene | 10.0 | 9.19 | | ppb v/v | | 92 | 68 - 129 |
| 1,2-Dichloroethane | 10.0 | 9.23 | | ppb v/v | | 92 | 68 - 135 |
| 1,2-Dichloropropane | 10.0 | 9.47 | | ppb v/v | | 95 | 69 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 9.84 | | ppb v/v | | 98 | 71 - 141 |
| 1,3,5-Trimethylbenzene | 10.0 | 9.29 | | ppb v/v | | 93 | 72 - 126 |
| 1,3-Butadiene | 10.0 | 9.80 | | ppb v/v | | 98 | 58 - 139 |
| 1,3-Dichlorobenzene | 10.0 | 9.28 | | ppb v/v | | 93 | 69 - 131 |
| 1,4-Dichlorobenzene | 10.0 | 9.21 | | ppb v/v | | 92 | 67 - 132 |
| 1,4-Dioxane | 10.0 | 11.5 | | ppb v/v | | 115 | 66 - 129 |
| 2,2,4-Trimethylpentane | 10.0 | 9.78 | | ppb v/v | | 98 | 68 - 131 |
| 2-Chlorotoluene | 10.0 | 9.43 | | ppb v/v | | 94 | 74 - 126 |
| 3-Chloropropene | 10.0 | 8.39 | | ppb v/v | | 84 | 50 - 150 |
| 4-Ethyltoluene | 10.0 | 9.45 | | ppb v/v | | 95 | 75 - 129 |
| 4-Isopropyltoluene | 10.0 | 9.01 | | ppb v/v | | 90 | 68 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 10.8 | | ppb v/v | | 108 | 58 - 144 |
| Acetone | 10.0 | 9.29 | | ppb v/v | | 93 | 54 - 154 |
| Benzene | 10.0 | 9.29 | | ppb v/v | | 93 | 73 - 119 |
| Benzyl chloride | 10.0 | 9.48 | | ppb v/v | | 95 | 60 - 136 |
| Bromodichloromethane | 10.0 | 9.17 | | ppb v/v | | 92 | 75 - 127 |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.2 | | ppb v/v | | 102 | 75 - 125 |
| Bromoform | 10.0 | 9.09 | | ppb v/v | | 91 | 53 - 149 |
| Bromomethane | 10.0 | 9.93 | | ppb v/v | | 99 | 72 - 124 |
| Carbon disulfide | 10.0 | 10.1 | | ppb v/v | | 101 | 71 - 138 |
| Carbon tetrachloride | 10.0 | 10.7 | | ppb v/v | | 107 | 71 - 133 |
| Chlorobenzene | 10.0 | 9.53 | | ppb v/v | | 95 | 76 - 119 |
| Chlorodifluoromethane | 10.0 | 10.1 | | ppb v/v | | 101 | 60 - 147 |
| Chloroethane | 10.0 | 10.5 | | ppb v/v | | 105 | 68 - 130 |
| Chloroform | 10.0 | 9.39 | | ppb v/v | | 94 | 73 - 124 |
| Chloromethane | 10.0 | 10.5 | | ppb v/v | | 105 | 56 - 141 |
| cis-1,2-Dichloroethene | 10.0 | 9.62 | | ppb v/v | | 96 | 72 - 121 |
| cis-1,3-Dichloropropene | 10.0 | 9.42 | | ppb v/v | | 94 | 74 - 125 |
| Cumene | 10.0 | 9.49 | | ppb v/v | | 95 | 73 - 123 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-185868/4**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Cyclohexane | 10.0 | 9.68 | | ppb v/v | | 97 | 76 - 124 |
| Dibromochloromethane | 10.0 | 9.36 | | ppb v/v | | 94 | 73 - 125 |
| Dichlorodifluoromethane | 10.0 | 10.1 | | ppb v/v | | 101 | 61 - 142 |
| Ethylbenzene | 10.0 | 9.26 | | ppb v/v | | 93 | 74 - 122 |
| Hexachlorobutadiene | 10.0 | 8.74 | | ppb v/v | | 87 | 58 - 130 |
| Isopropyl alcohol | 10.0 | 10.8 | | ppb v/v | | 108 | 53 - 142 |
| m,p-Xylene | 20.0 | 19.5 | | ppb v/v | | 98 | 76 - 121 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 10.5 | | ppb v/v | | 105 | 57 - 143 |
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 9.57 | | ppb v/v | | 96 | 72 - 124 |
| Methyl methacrylate | 10.0 | 10.3 | | ppb v/v | | 103 | 73 - 129 |
| Methyl tert-butyl ether | 10.0 | 9.24 | | ppb v/v | | 92 | 70 - 127 |
| Methylene Chloride | 10.0 | 9.95 | | ppb v/v | | 100 | 59 - 137 |
| Naphthalene | 10.0 | 9.86 | | ppb v/v | | 99 | 50 - 150 |
| n-Butane | 10.0 | 10.5 | | ppb v/v | | 105 | 53 - 151 |
| n-Butylbenzene | 10.0 | 8.81 | | ppb v/v | | 88 | 65 - 137 |
| n-Heptane | 10.0 | 9.95 | | ppb v/v | | 100 | 60 - 142 |
| n-Hexane | 10.0 | 9.40 | | ppb v/v | | 94 | 63 - 138 |
| n-Propylbenzene | 10.0 | 9.54 | | ppb v/v | | 95 | 73 - 127 |
| o-Xylene | 10.0 | 9.54 | | ppb v/v | | 95 | 73 - 123 |
| sec-Butylbenzene | 10.0 | 9.03 | | ppb v/v | | 90 | 70 - 128 |
| Styrene | 10.0 | 9.79 | | ppb v/v | | 98 | 74 - 125 |
| tert-Butyl alcohol | 10.0 | 10.5 | | ppb v/v | | 105 | 66 - 132 |
| tert-Butylbenzene | 10.0 | 9.17 | | ppb v/v | | 92 | 71 - 125 |
| Tetrachloroethene | 10.0 | 9.83 | | ppb v/v | | 98 | 70 - 125 |
| Tetrahydrofuran | 10.0 | 10.8 | | ppb v/v | | 108 | 60 - 149 |
| Toluene | 10.0 | 9.30 | | ppb v/v | | 93 | 75 - 122 |
| trans-1,2-Dichloroethene | 10.0 | 10.1 | | ppb v/v | | 101 | 69 - 137 |
| trans-1,3-Dichloropropene | 10.0 | 9.57 | | ppb v/v | | 96 | 74 - 128 |
| Trichloroethene | 10.0 | 10.2 | | ppb v/v | | 102 | 73 - 122 |
| Trichlorofluoromethane | 10.0 | 9.68 | | ppb v/v | | 97 | 70 - 129 |
| Vinyl chloride | 10.0 | 10.6 | | ppb v/v | | 106 | 61 - 135 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 55 | 54.1 | | ug/m3 | | 99 | 72 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 65.0 | | ug/m3 | | 95 | 74 - 126 |
| 1,1,2-Trichloroethane | 55 | 52.8 | | ug/m3 | | 97 | 75 - 126 |
| 1,1,2-Trichlorotrifluoroethane | 77 | 73.2 | | ug/m3 | | 96 | 70 - 121 |
| 1,1-Dichloroethane | 40 | 38.1 | | ug/m3 | | 94 | 66 - 130 |
| 1,1-Dichloroethene | 40 | 39.4 | | ug/m3 | | 99 | 68 - 120 |
| 1,2,4-Trichlorobenzene | 74 | 69.8 | | ug/m3 | | 94 | 50 - 150 |
| 1,2,4-Trimethylbenzene | 49 | 44.7 | | ug/m3 | | 91 | 71 - 129 |
| 1,2-Dibromoethane | 77 | 72.9 | | ug/m3 | | 95 | 78 - 122 |
| 1,2-Dichlorobenzene | 60 | 55.2 | | ug/m3 | | 92 | 68 - 129 |
| 1,2-Dichloroethane | 40 | 37.4 | | ug/m3 | | 92 | 68 - 135 |
| 1,2-Dichloropropane | 46 | 43.8 | | ug/m3 | | 95 | 69 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 68.8 | | ug/m3 | | 98 | 71 - 141 |
| 1,3,5-Trimethylbenzene | 49 | 45.7 | | ug/m3 | | 93 | 72 - 126 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-185868/4**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 22 | 21.7 | | ug/m3 | | 98 | 58 - 139 |
| 1,3-Dichlorobenzene | 60 | 55.8 | | ug/m3 | | 93 | 69 - 131 |
| 1,4-Dichlorobenzene | 60 | 55.4 | | ug/m3 | | 92 | 67 - 132 |
| 1,4-Dioxane | 36 | 41.4 | | ug/m3 | | 115 | 66 - 129 |
| 2,2,4-Trimethylpentane | 47 | 45.7 | | ug/m3 | | 98 | 68 - 131 |
| 2-Chlorotoluene | 52 | 48.8 | | ug/m3 | | 94 | 74 - 126 |
| 3-Chloropropene | 31 | 26.3 | | ug/m3 | | 84 | 50 - 150 |
| 4-Ethyltoluene | 49 | 46.5 | | ug/m3 | | 95 | 75 - 129 |
| 4-Isopropyltoluene | 55 | 49.5 | | ug/m3 | | 90 | 68 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 41 | 44.4 | | ug/m3 | | 108 | 58 - 144 |
| Acetone | 24 | 22.1 | | ug/m3 | | 93 | 54 - 154 |
| Benzene | 32 | 29.7 | | ug/m3 | | 93 | 73 - 119 |
| Benzyl chloride | 52 | 49.1 | | ug/m3 | | 95 | 60 - 136 |
| Bromodichloromethane | 67 | 61.5 | | ug/m3 | | 92 | 75 - 127 |
| Bromoethene(Vinyl Bromide) | 44 | 44.6 | | ug/m3 | | 102 | 75 - 125 |
| Bromoform | 100 | 94.0 | | ug/m3 | | 91 | 53 - 149 |
| Bromomethane | 39 | 38.6 | | ug/m3 | | 99 | 72 - 124 |
| Carbon disulfide | 31 | 31.4 | | ug/m3 | | 101 | 71 - 138 |
| Carbon tetrachloride | 63 | 67.6 | | ug/m3 | | 107 | 71 - 133 |
| Chlorobenzene | 46 | 43.9 | | ug/m3 | | 95 | 76 - 119 |
| Chlorodifluoromethane | 35 | 35.6 | | ug/m3 | | 101 | 60 - 147 |
| Chloroethane | 26 | 27.8 | | ug/m3 | | 105 | 68 - 130 |
| Chloroform | 49 | 45.9 | | ug/m3 | | 94 | 73 - 124 |
| Chloromethane | 21 | 21.7 | | ug/m3 | | 105 | 56 - 141 |
| cis-1,2-Dichloroethene | 40 | 38.2 | | ug/m3 | | 96 | 72 - 121 |
| cis-1,3-Dichloropropene | 45 | 42.7 | | ug/m3 | | 94 | 74 - 125 |
| Cumene | 49 | 46.7 | | ug/m3 | | 95 | 73 - 123 |
| Cyclohexane | 34 | 33.3 | | ug/m3 | | 97 | 76 - 124 |
| Dibromochloromethane | 85 | 79.8 | | ug/m3 | | 94 | 73 - 125 |
| Dichlorodifluoromethane | 49 | 50.0 | | ug/m3 | | 101 | 61 - 142 |
| Ethylbenzene | 43 | 40.2 | | ug/m3 | | 93 | 74 - 122 |
| Hexachlorobutadiene | 110 | 93.2 | | ug/m3 | | 87 | 58 - 130 |
| Isopropyl alcohol | 25 | 26.5 | | ug/m3 | | 108 | 53 - 142 |
| m,p-Xylene | 87 | 84.8 | | ug/m3 | | 98 | 76 - 121 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 43.0 | | ug/m3 | | 105 | 57 - 143 |
| Methyl Ethyl Ketone (2-Butanone) | 29 | 28.2 | | ug/m3 | | 96 | 72 - 124 |
| Methyl methacrylate | 41 | 42.2 | | ug/m3 | | 103 | 73 - 129 |
| Methyl tert-butyl ether | 36 | 33.3 | | ug/m3 | | 92 | 70 - 127 |
| Methylene Chloride | 35 | 34.6 | | ug/m3 | | 100 | 59 - 137 |
| Naphthalene | 52 | 51.7 | | ug/m3 | | 99 | 50 - 150 |
| n-Butane | 24 | 25.1 | | ug/m3 | | 105 | 53 - 151 |
| n-Butylbenzene | 55 | 48.3 | | ug/m3 | | 88 | 65 - 137 |
| n-Heptane | 41 | 40.8 | | ug/m3 | | 100 | 60 - 142 |
| n-Hexane | 35 | 33.1 | | ug/m3 | | 94 | 63 - 138 |
| n-Propylbenzene | 49 | 46.9 | | ug/m3 | | 95 | 73 - 127 |
| o-Xylene | 43 | 41.4 | | ug/m3 | | 95 | 73 - 123 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-185868/4**
**Matrix: Air**
**Analysis Batch: 185868**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 55 | 49.6 | | ug/m3 | | 90 | 70 - 128 |
| Styrene | 43 | 41.7 | | ug/m3 | | 98 | 74 - 125 |
| tert-Butyl alcohol | 30 | 31.7 | | ug/m3 | | 105 | 66 - 132 |
| tert-Butylbenzene | 55 | 50.3 | | ug/m3 | | 92 | 71 - 125 |
| Tetrachloroethene | 68 | 66.7 | | ug/m3 | | 98 | 70 - 125 |
| Tetrahydrofuran | 29 | 31.8 | | ug/m3 | | 108 | 60 - 149 |
| Toluene | 38 | 35.0 | | ug/m3 | | 93 | 75 - 122 |
| trans-1,2-Dichloroethene | 40 | 39.9 | | ug/m3 | | 101 | 69 - 137 |
| trans-1,3-Dichloropropene | 45 | 43.5 | | ug/m3 | | 96 | 74 - 128 |
| Trichloroethene | 54 | 54.6 | | ug/m3 | | 102 | 73 - 122 |
| Trichlorofluoromethane | 56 | 54.4 | | ug/m3 | | 97 | 70 - 129 |
| Vinyl chloride | 26 | 27.0 | | ug/m3 | | 106 | 61 - 135 |

**Lab Sample ID: MB 200-185924/4**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.043 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 0.20 | U | 0.20 | 0.053 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.025 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,1-Dichloroethene | 0.050 | U | 0.050 | 0.026 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.33 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,2,4-Trimethylbenzene | 0.20 | U | 0.20 | 0.080 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.042 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.066 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.093 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.094 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.048 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.039 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.074 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.089 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 2,2,4-Trimethylpentane | 0.20 | U | 0.20 | 0.038 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 2-Chlorotoluene | 0.20 | U | 0.20 | 0.046 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | 0.049 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 4-Isopropyltoluene | 0.20 | U | 0.20 | 0.061 | ppb v/v | | | 11/18/22 11:51 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Acetone | 5.0 | U | 5.0 | 1.6 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Benzene | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Benzyl chloride | 0.20 | U | 0.20 | 0.088 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Bromoform | 0.20 | U | 0.20 | 0.12 | ppb v/v | | | 11/18/22 11:51 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-185924/4**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.20 | U | 0.20 | 0.071 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.13 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Carbon tetrachloride | 0.035 | U | 0.035 | 0.022 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.044 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Chlorodifluoromethane | 0.50 | U | 0.50 | 0.12 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Chloroethane | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Chloroform | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Chloromethane | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/18/22 11:51 | 1 |
| cis-1,2-Dichloroethene | 0.050 | U | 0.050 | 0.021 | ppb v/v | | | 11/18/22 11:51 | 1 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Cumene | 0.20 | U | 0.20 | 0.041 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Cyclohexane | 0.20 | U | 0.20 | 0.058 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.063 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Dichlorodifluoromethane | 0.50 | U | 0.50 | 0.11 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Ethylbenzene | 0.20 | U | 0.20 | 0.052 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Hexachlorobutadiene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Isopropyl alcohol | 5.0 | U | 5.0 | 1.6 | ppb v/v | | | 11/18/22 11:51 | 1 |
| m,p-Xylene | 0.50 | U | 0.50 | 0.095 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.15 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | U | 0.50 | 0.49 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Methyl methacrylate | 0.50 | U | 0.50 | 0.14 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.036 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.18 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Naphthalene | 0.50 | U | 0.50 | 0.30 | ppb v/v | | | 11/18/22 11:51 | 1 |
| n-Butane | 0.50 | U | 0.50 | 0.20 | ppb v/v | | | 11/18/22 11:51 | 1 |
| n-Butylbenzene | 0.20 | U | 0.20 | 0.11 | ppb v/v | | | 11/18/22 11:51 | 1 |
| n-Heptane | 0.20 | U | 0.20 | 0.055 | ppb v/v | | | 11/18/22 11:51 | 1 |
| n-Hexane | 0.50 | U | 0.50 | 0.11 | ppb v/v | | | 11/18/22 11:51 | 1 |
| n-Propylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/18/22 11:51 | 1 |
| o-Xylene | 0.20 | U | 0.20 | 0.052 | ppb v/v | | | 11/18/22 11:51 | 1 |
| sec-Butylbenzene | 0.20 | U | 0.20 | 0.045 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Styrene | 0.20 | U | 0.20 | 0.059 | ppb v/v | | | 11/18/22 11:51 | 1 |
| tert-Butyl alcohol | 5.0 | U | 5.0 | 1.2 | ppb v/v | | | 11/18/22 11:51 | 1 |
| tert-Butylbenzene | 0.20 | U | 0.20 | 0.047 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Tetrachloroethene | 0.20 | U | 0.20 | 0.021 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Tetrahydrofuran | 5.0 | U | 5.0 | 1.3 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Toluene | 0.20 | U | 0.20 | 0.042 | ppb v/v | | | 11/18/22 11:51 | 1 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.023 | ppb v/v | | | 11/18/22 11:51 | 1 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.054 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Trichloroethene | 0.037 | U | 0.037 | 0.025 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Trichlorofluoromethane | 0.20 | U | 0.20 | 0.050 | ppb v/v | | | 11/18/22 11:51 | 1 |
| Vinyl chloride | 0.078 | U | 0.078 | 0.021 | ppb v/v | | | 11/18/22 11:51 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.1 | U | 1.1 | 0.24 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 0.30 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 0.40 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,1,2-Trichlorotrifluoroethane | 1.5 | U | 1.5 | 0.41 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.10 | ug/m3 | | | 11/18/22 11:51 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-185924/4**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.10 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 2.4 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,2,4-Trimethylbenzene | 0.98 | U | 0.98 | 0.39 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 0.32 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 0.40 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.38 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.43 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 0.34 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | 0.23 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.086 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 0.44 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 0.54 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 1,4-Dioxane | 18 | U | 18 | 4.7 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 2,2,4-Trimethylpentane | 0.93 | U | 0.93 | 0.18 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 2-Chlorotoluene | 1.0 | U | 1.0 | 0.24 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 3-Chloropropene | 1.6 | U | 1.6 | 0.38 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | 0.24 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 4-Isopropyltoluene | 1.1 | U | 1.1 | 0.33 | ug/m3 | | | 11/18/22 11:51 | 1 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0 | U | 2.0 | 0.53 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Acetone | 12 | U | 12 | 3.8 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Benzene | 0.64 | U | 0.64 | 0.14 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Benzyl chloride | 1.0 | U | 1.0 | 0.46 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Bromodichloromethane | 1.3 | U | 1.3 | 0.34 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.22 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Bromoform | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Bromomethane | 0.78 | U | 0.78 | 0.28 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Carbon disulfide | 1.6 | U | 1.6 | 0.40 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Carbon tetrachloride | 0.22 | U | 0.22 | 0.14 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.20 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Chlorodifluoromethane | 1.8 | U | 1.8 | 0.42 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Chloroethane | 1.3 | U | 1.3 | 0.47 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Chloroform | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.31 | ug/m3 | | | 11/18/22 11:51 | 1 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.083 | ug/m3 | | | 11/18/22 11:51 | 1 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.20 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Cumene | 0.98 | U | 0.98 | 0.20 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Cyclohexane | 0.69 | U | 0.69 | 0.20 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Dibromochloromethane | 1.7 | U | 1.7 | 0.54 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Dichlorodifluoromethane | 2.5 | U | 2.5 | 0.54 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Ethylbenzene | 0.87 | U | 0.87 | 0.23 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Hexachlorobutadiene | 2.1 | U | 2.1 | 1.2 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Isopropyl alcohol | 12 | U | 12 | 3.9 | ug/m3 | | | 11/18/22 11:51 | 1 |
| m,p-Xylene | 2.2 | U | 2.2 | 0.41 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 0.61 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Methyl Ethyl Ketone (2-Butanone) | 1.5 | U | 1.5 | 1.4 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Methyl methacrylate | 2.0 | U | 2.0 | 0.57 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.13 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Methylene Chloride | 1.7 | U | 1.7 | 0.63 | ug/m3 | | | 11/18/22 11:51 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-185924/4**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 2.6 | U | 2.6 | 1.6 | ug/m3 | | | 11/18/22 11:51 | 1 |
| n-Butane | 1.2 | U | 1.2 | 0.48 | ug/m3 | | | 11/18/22 11:51 | 1 |
| n-Butylbenzene | 1.1 | U | 1.1 | 0.60 | ug/m3 | | | 11/18/22 11:51 | 1 |
| n-Heptane | 0.82 | U | 0.82 | 0.23 | ug/m3 | | | 11/18/22 11:51 | 1 |
| n-Hexane | 1.8 | U | 1.8 | 0.39 | ug/m3 | | | 11/18/22 11:51 | 1 |
| n-Propylbenzene | 0.98 | U | 0.98 | 0.23 | ug/m3 | | | 11/18/22 11:51 | 1 |
| o-Xylene | 0.87 | U | 0.87 | 0.23 | ug/m3 | | | 11/18/22 11:51 | 1 |
| sec-Butylbenzene | 1.1 | U | 1.1 | 0.25 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Styrene | 0.85 | U | 0.85 | 0.25 | ug/m3 | | | 11/18/22 11:51 | 1 |
| tert-Butyl alcohol | 15 | U | 15 | 3.6 | ug/m3 | | | 11/18/22 11:51 | 1 |
| tert-Butylbenzene | 1.1 | U | 1.1 | 0.26 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Tetrachloroethene | 1.4 | U | 1.4 | 0.14 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Tetrahydrofuran | 15 | U | 15 | 3.8 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Toluene | 0.75 | U | 0.75 | 0.16 | ug/m3 | | | 11/18/22 11:51 | 1 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.091 | ug/m3 | | | 11/18/22 11:51 | 1 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.25 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Trichloroethene | 0.20 | U | 0.20 | 0.13 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Trichlorofluoromethane | 1.1 | U | 1.1 | 0.28 | ug/m3 | | | 11/18/22 11:51 | 1 |
| Vinyl chloride | 0.20 | U | 0.20 | 0.054 | ug/m3 | | | 11/18/22 11:51 | 1 |

**Lab Sample ID: LCS 200-185924/3**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.0 | 9.99 | | ppb v/v | | 100 | 72 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 10.1 | | ppb v/v | | 101 | 74 - 126 |
| 1,1,2-Trichloroethane | 10.0 | 9.79 | | ppb v/v | | 98 | 75 - 126 |
| 1,1,2-Trichlorotrifluoroethane | 10.0 | 10.3 | | ppb v/v | | 103 | 70 - 121 |
| 1,1-Dichloroethane | 10.0 | 9.98 | | ppb v/v | | 100 | 66 - 130 |
| 1,1-Dichloroethene | 10.0 | 9.96 | | ppb v/v | | 100 | 68 - 120 |
| 1,2,4-Trichlorobenzene | 10.0 | 9.89 | | ppb v/v | | 99 | 50 - 150 |
| 1,2,4-Trimethylbenzene | 10.0 | 10.0 | | ppb v/v | | 100 | 71 - 129 |
| 1,2-Dibromoethane | 10.0 | 9.96 | | ppb v/v | | 100 | 78 - 122 |
| 1,2-Dichlorobenzene | 10.0 | 9.99 | | ppb v/v | | 100 | 68 - 129 |
| 1,2-Dichloroethane | 10.0 | 10.2 | | ppb v/v | | 102 | 68 - 135 |
| 1,2-Dichloropropane | 10.0 | 10.1 | | ppb v/v | | 101 | 69 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 9.89 | | ppb v/v | | 99 | 71 - 141 |
| 1,3,5-Trimethylbenzene | 10.0 | 9.87 | | ppb v/v | | 99 | 72 - 126 |
| 1,3-Butadiene | 10.0 | 9.29 | | ppb v/v | | 93 | 58 - 139 |
| 1,3-Dichlorobenzene | 10.0 | 10.0 | | ppb v/v | | 100 | 69 - 131 |
| 1,4-Dichlorobenzene | 10.0 | 9.91 | | ppb v/v | | 99 | 67 - 132 |
| 1,4-Dioxane | 10.0 | 9.98 | | ppb v/v | | 100 | 66 - 129 |
| 2,2,4-Trimethylpentane | 10.0 | 10.1 | | ppb v/v | | 101 | 68 - 131 |
| 2-Chlorotoluene | 10.0 | 9.87 | | ppb v/v | | 99 | 74 - 126 |
| 3-Chloropropene | 10.0 | 10.7 | | ppb v/v | | 107 | 50 - 150 |
| 4-Ethyltoluene | 10.0 | 9.85 | | ppb v/v | | 99 | 75 - 129 |
| 4-Isopropyltoluene | 10.0 | 10.1 | | ppb v/v | | 101 | 68 - 130 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-185924/3**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0 | 10.6 | | ppb v/v | | 106 | 58 - 144 |
| Acetone | 10.0 | 10.8 | | ppb v/v | | 108 | 54 - 154 |
| Benzene | 10.0 | 9.86 | | ppb v/v | | 99 | 73 - 119 |
| Benzyl chloride | 10.0 | 9.65 | | ppb v/v | | 97 | 60 - 136 |
| Bromodichloromethane | 10.0 | 10.0 | | ppb v/v | | 100 | 75 - 127 |
| Bromoethene(Vinyl Bromide) | 10.0 | 9.46 | | ppb v/v | | 95 | 75 - 125 |
| Bromoform | 10.0 | 10.0 | | ppb v/v | | 100 | 53 - 149 |
| Bromomethane | 10.0 | 9.78 | | ppb v/v | | 98 | 72 - 124 |
| Carbon disulfide | 10.0 | 10.6 | | ppb v/v | | 106 | 71 - 138 |
| Carbon tetrachloride | 10.0 | 9.95 | | ppb v/v | | 99 | 71 - 133 |
| Chlorobenzene | 10.0 | 9.65 | | ppb v/v | | 97 | 76 - 119 |
| Chlorodifluoromethane | 10.0 | 10.4 | | ppb v/v | | 104 | 60 - 147 |
| Chloroethane | 10.0 | 10.1 | | ppb v/v | | 102 | 68 - 130 |
| Chloroform | 10.0 | 10.1 | | ppb v/v | | 101 | 73 - 124 |
| Chloromethane | 10.0 | 10.5 | | ppb v/v | | 105 | 56 - 141 |
| cis-1,2-Dichloroethene | 10.0 | 9.78 | | ppb v/v | | 98 | 72 - 121 |
| cis-1,3-Dichloropropene | 10.0 | 9.53 | | ppb v/v | | 95 | 74 - 125 |
| Cumene | 10.0 | 9.85 | | ppb v/v | | 99 | 73 - 123 |
| Cyclohexane | 10.0 | 9.92 | | ppb v/v | | 99 | 76 - 124 |
| Dibromochloromethane | 10.0 | 10.1 | | ppb v/v | | 101 | 73 - 125 |
| Dichlorodifluoromethane | 10.0 | 10.2 | | ppb v/v | | 102 | 61 - 142 |
| Ethylbenzene | 10.0 | 9.87 | | ppb v/v | | 99 | 74 - 122 |
| Hexachlorobutadiene | 10.0 | 9.09 | | ppb v/v | | 91 | 58 - 130 |
| Isopropyl alcohol | 10.0 | 9.65 | | ppb v/v | | 97 | 53 - 142 |
| m,p-Xylene | 20.0 | 19.8 | | ppb v/v | | 99 | 76 - 121 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 10.7 | | ppb v/v | | 107 | 57 - 143 |
| Methyl Ethyl Ketone (2-Butanone) | 10.0 | 9.84 | | ppb v/v | | 98 | 72 - 124 |
| Methyl methacrylate | 10.0 | 10.4 | | ppb v/v | | 104 | 73 - 129 |
| Methyl tert-butyl ether | 10.0 | 10.1 | | ppb v/v | | 101 | 70 - 127 |
| Methylene Chloride | 10.0 | 10.8 | | ppb v/v | | 108 | 59 - 137 |
| Naphthalene | 10.0 | 10.8 | | ppb v/v | | 108 | 50 - 150 |
| n-Butane | 10.0 | 10.5 | | ppb v/v | | 106 | 53 - 151 |
| n-Butylbenzene | 10.0 | 10.2 | | ppb v/v | | 102 | 65 - 137 |
| n-Heptane | 10.0 | 10.2 | | ppb v/v | | 102 | 60 - 142 |
| n-Hexane | 10.0 | 10.2 | | ppb v/v | | 102 | 63 - 138 |
| n-Propylbenzene | 10.0 | 9.86 | | ppb v/v | | 99 | 73 - 127 |
| o-Xylene | 10.0 | 9.85 | | ppb v/v | | 99 | 73 - 123 |
| sec-Butylbenzene | 10.0 | 9.84 | | ppb v/v | | 98 | 70 - 128 |
| Styrene | 10.0 | 10.3 | | ppb v/v | | 103 | 74 - 125 |
| tert-Butyl alcohol | 10.0 | 10.4 | | ppb v/v | | 104 | 66 - 132 |
| tert-Butylbenzene | 10.0 | 9.69 | | ppb v/v | | 97 | 71 - 125 |
| Tetrachloroethene | 10.0 | 9.27 | | ppb v/v | | 93 | 70 - 125 |
| Tetrahydrofuran | 10.0 | 10.7 | | ppb v/v | | 107 | 60 - 149 |
| Toluene | 10.0 | 9.86 | | ppb v/v | | 99 | 75 - 122 |
| trans-1,2-Dichloroethene | 10.0 | 10.1 | | ppb v/v | | 101 | 69 - 137 |
| trans-1,3-Dichloropropene | 10.0 | 10.1 | | ppb v/v | | 101 | 74 - 128 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-185924/3**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 10.0 | 9.46 | | ppb v/v | | 95 | 73 - 122 |
| Trichlorofluoromethane | 10.0 | 9.69 | | ppb v/v | | 97 | 70 - 129 |
| Vinyl chloride | 10.0 | 9.52 | | ppb v/v | | 95 | 61 - 135 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 55 | 54.5 | | ug/m3 | | 100 | 72 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 69.0 | | ug/m3 | | 101 | 74 - 126 |
| 1,1,2-Trichloroethane | 55 | 53.4 | | ug/m3 | | 98 | 75 - 126 |
| 1,1,2-Trichlorotrifluoroethane | 77 | 79.0 | | ug/m3 | | 103 | 70 - 121 |
| 1,1-Dichloroethane | 40 | 40.4 | | ug/m3 | | 100 | 66 - 130 |
| 1,1-Dichloroethene | 40 | 39.5 | | ug/m3 | | 100 | 68 - 120 |
| 1,2,4-Trichlorobenzene | 74 | 73.4 | | ug/m3 | | 99 | 50 - 150 |
| 1,2,4-Trimethylbenzene | 49 | 49.2 | | ug/m3 | | 100 | 71 - 129 |
| 1,2-Dibromoethane | 77 | 76.5 | | ug/m3 | | 100 | 78 - 122 |
| 1,2-Dichlorobenzene | 60 | 60.0 | | ug/m3 | | 100 | 68 - 129 |
| 1,2-Dichloroethane | 40 | 41.3 | | ug/m3 | | 102 | 68 - 135 |
| 1,2-Dichloropropane | 46 | 46.6 | | ug/m3 | | 101 | 69 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 69.1 | | ug/m3 | | 99 | 71 - 141 |
| 1,3,5-Trimethylbenzene | 49 | 48.5 | | ug/m3 | | 99 | 72 - 126 |
| 1,3-Butadiene | 22 | 20.5 | | ug/m3 | | 93 | 58 - 139 |
| 1,3-Dichlorobenzene | 60 | 60.2 | | ug/m3 | | 100 | 69 - 131 |
| 1,4-Dichlorobenzene | 60 | 59.6 | | ug/m3 | | 99 | 67 - 132 |
| 1,4-Dioxane | 36 | 36.0 | | ug/m3 | | 100 | 66 - 129 |
| 2,2,4-Trimethylpentane | 47 | 47.0 | | ug/m3 | | 101 | 68 - 131 |
| 2-Chlorotoluene | 52 | 51.1 | | ug/m3 | | 99 | 74 - 126 |
| 3-Chloropropene | 31 | 33.3 | | ug/m3 | | 107 | 50 - 150 |
| 4-Ethyltoluene | 49 | 48.4 | | ug/m3 | | 99 | 75 - 129 |
| 4-Isopropyltoluene | 55 | 55.5 | | ug/m3 | | 101 | 68 - 130 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 41 | 43.5 | | ug/m3 | | 106 | 58 - 144 |
| Acetone | 24 | 25.6 | | ug/m3 | | 108 | 54 - 154 |
| Benzene | 32 | 31.5 | | ug/m3 | | 99 | 73 - 119 |
| Benzyl chloride | 52 | 50.0 | | ug/m3 | | 97 | 60 - 136 |
| Bromodichloromethane | 67 | 67.2 | | ug/m3 | | 100 | 75 - 127 |
| Bromoethene(Vinyl Bromide) | 44 | 41.4 | | ug/m3 | | 95 | 75 - 125 |
| Bromoform | 100 | 103 | | ug/m3 | | 100 | 53 - 149 |
| Bromomethane | 39 | 38.0 | | ug/m3 | | 98 | 72 - 124 |
| Carbon disulfide | 31 | 33.1 | | ug/m3 | | 106 | 71 - 138 |
| Carbon tetrachloride | 63 | 62.6 | | ug/m3 | | 99 | 71 - 133 |
| Chlorobenzene | 46 | 44.4 | | ug/m3 | | 97 | 76 - 119 |
| Chlorodifluoromethane | 35 | 36.6 | | ug/m3 | | 104 | 60 - 147 |
| Chloroethane | 26 | 26.8 | | ug/m3 | | 102 | 68 - 130 |
| Chloroform | 49 | 49.5 | | ug/m3 | | 101 | 73 - 124 |
| Chloromethane | 21 | 21.7 | | ug/m3 | | 105 | 56 - 141 |
| cis-1,2-Dichloroethene | 40 | 38.8 | | ug/m3 | | 98 | 72 - 121 |
| cis-1,3-Dichloropropene | 45 | 43.3 | | ug/m3 | | 95 | 74 - 125 |
| Cumene | 49 | 48.4 | | ug/m3 | | 99 | 73 - 123 |
| Cyclohexane | 34 | 34.1 | | ug/m3 | | 99 | 76 - 124 |
| Dibromochloromethane | 85 | 85.6 | | ug/m3 | | 101 | 73 - 125 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-185924/3**
**Matrix: Air**
**Analysis Batch: 185924**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | 50.2 | | ug/m3 | | 102 | 61 - 142 |
| Ethylbenzene | 43 | 42.9 | | ug/m3 | | 99 | 74 - 122 |
| Hexachlorobutadiene | 110 | 96.9 | | ug/m3 | | 91 | 58 - 130 |
| Isopropyl alcohol | 25 | 23.7 | | ug/m3 | | 97 | 53 - 142 |
| m,p-Xylene | 87 | 85.9 | | ug/m3 | | 99 | 76 - 121 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 43.7 | | ug/m3 | | 107 | 57 - 143 |
| Methyl Ethyl Ketone (2-Butanone) | 29 | 29.0 | | ug/m3 | | 98 | 72 - 124 |
| Methyl methacrylate | 41 | 42.7 | | ug/m3 | | 104 | 73 - 129 |
| Methyl tert-butyl ether | 36 | 36.5 | | ug/m3 | | 101 | 70 - 127 |
| Methylene Chloride | 35 | 37.6 | | ug/m3 | | 108 | 59 - 137 |
| Naphthalene | 52 | 56.4 | | ug/m3 | | 108 | 50 - 150 |
| n-Butane | 24 | 25.1 | | ug/m3 | | 106 | 53 - 151 |
| n-Butylbenzene | 55 | 55.9 | | ug/m3 | | 102 | 65 - 137 |
| n-Heptane | 41 | 41.6 | | ug/m3 | | 102 | 60 - 142 |
| n-Hexane | 35 | 36.1 | | ug/m3 | | 102 | 63 - 138 |
| n-Propylbenzene | 49 | 48.5 | | ug/m3 | | 99 | 73 - 127 |
| o-Xylene | 43 | 42.8 | | ug/m3 | | 99 | 73 - 123 |
| sec-Butylbenzene | 55 | 54.0 | | ug/m3 | | 98 | 70 - 128 |
| Styrene | 43 | 43.8 | | ug/m3 | | 103 | 74 - 125 |
| tert-Butyl alcohol | 30 | 31.5 | | ug/m3 | | 104 | 66 - 132 |
| tert-Butylbenzene | 55 | 53.2 | | ug/m3 | | 97 | 71 - 125 |
| Tetrachloroethene | 68 | 62.8 | | ug/m3 | | 93 | 70 - 125 |
| Tetrahydrofuran | 29 | 31.6 | | ug/m3 | | 107 | 60 - 149 |
| Toluene | 38 | 37.2 | | ug/m3 | | 99 | 75 - 122 |
| trans-1,2-Dichloroethene | 40 | 40.1 | | ug/m3 | | 101 | 69 - 137 |
| trans-1,3-Dichloropropene | 45 | 45.7 | | ug/m3 | | 101 | 74 - 128 |
| Trichloroethene | 54 | 50.8 | | ug/m3 | | 95 | 73 - 122 |
| Trichlorofluoromethane | 56 | 54.4 | | ug/m3 | | 97 | 70 - 129 |
| Vinyl chloride | 26 | 24.3 | | ug/m3 | | 95 | 61 - 135 |

## Air - GC/MS VOA

### Analysis Batch: 185868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-65790-2 | IA-1 | Total/NA | Air | TO-15 | |
| 200-65790-3 | OA-1 OUTDOOR AIR | Total/NA | Air | TO-15 | |
| MB 200-185868/5 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-185868/4 | Lab Control Sample | Total/NA | Air | TO-15 | |

### Analysis Batch: 185924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-65790-1 | SSV-1 | Total/NA | Air | TO-15 | |
| 200-65790-1 - DL | SSV-1 | Total/NA | Air | TO-15 | |
| MB 200-185924/4 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-185924/3 | Lab Control Sample | Total/NA | Air | TO-15 | |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

## Client Sample ID: SSV-1
**Lab Sample ID: 200-65790-1**
**Date Collected: 11/10/22 16:10**
**Matrix: Air**
**Date Received: 11/17/22 10:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 185924 | A1B | EET BUR | 11/19/22 05:05 |
| Total/NA | Analysis | TO-15 | DL | 5 | 185924 | A1B | EET BUR | 11/19/22 05:59 |

## Client Sample ID: IA-1
**Lab Sample ID: 200-65790-2**
**Date Collected: 11/10/22 15:15**
**Matrix: Air**
**Date Received: 11/17/22 10:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 185868 | A1B | EET BUR | 11/17/22 15:52 |

## Client Sample ID: OA-1 OUTDOOR AIR
**Lab Sample ID: 200-65790-3**
**Date Collected: 11/10/22 16:21**
**Matrix: Air**
**Date Received: 11/17/22 10:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 185868 | A1B | EET BUR | 11/17/22 16:45 |

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

## Laboratory: Eurofins Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10391 | 04-01-23 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| TO-15 | | Air | 4-Ethyltoluene |
| TO-15 | | Air | 4-Isopropyltoluene |
| TO-15 | | Air | Chlorodifluoromethane |
| TO-15 | | Air | Methyl Butyl Ketone (2-Hexanone) |
| TO-15 | | Air | n-Butane |
| TO-15 | | Air | n-Butylbenzene |
| TO-15 | | Air | n-Propylbenzene |
| TO-15 | | Air | sec-Butylbenzene |
| TO-15 | | Air | tert-Butylbenzene |
| TO-15 | | Air | Tetrahydrofuran |

# Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | EET BUR |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: 33 Scott St. Hamburg, NY

Job ID: 200-65790-1
SDG: 200-65790

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 200-65790-1 | SSV-1 | Air | 11/10/22 16:10 | 11/17/22 10:40 | Air Canister (6-Liter) #9268 |
| 200-65790-2 | IA-1 | Air | 11/10/22 15:15 | 11/17/22 10:40 | Air Canister (6-Liter) #4235 |
| 200-65790-3 | OA-1 OUTDOOR AIR | Air | 11/10/22 16:21 | 11/17/22 10:40 | Air Canister (6-Liter) #34001293 |

## Post-Sampling Air Canister Pressure Check Record

| Login # (w/ Location Code) | Date | Time (Military) | Lab BP ("Hg) | Lab Temp (°C) | Pressure Gauge ID | Analyst |
|---|---|---|---|---|---|---|
| 200-65790 | 11/17/22 | 9:42 | 29.5 | 22 | G30 | ZK |

| Sampling Information and Return Equipment Check | Yes | N o | Comments |
|---|---|---|---|
| (1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present? | Yes | | |
| (2) Is the flow controller ID used for each canister recorded? | Yes | | |
| (3) MA MCP & NJ DKQP: Check return flow rate for flow controllers | | N o | |
| (4) Is visible sign of damage to canister and/or flow controller (FC) present? | | N o | |
| If damage observed, list equipment IDs and describe condition: | | | |
| | | | |

**Post-Sampling Return Pressure Check**

| Lab ID | Canister ID | Pressure[1] ("Hg) | Anomaly[2] (Y/N) | FC ID[3] | FC Check[4] Reference | FC Return (Y/N) | Can Cert Batch ID | Comments |
|---|---|---|---|---|---|---|---|---|
| 200-65790-A-1 | 9268 | 0.0 | Y | 6550 | 93/54 | N | 3482-53059 | |
| 200-65790-A-2 | 4235 | -7.0 | N | 3062 | 93/54 | N | 4116-53123 | |
| 200-65790-A-3 | 34001293 | -6.3 | N | 5005 | 93/54 | N | 4116-53123 | |
| | | | | | | | | |
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[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

**Eurofins TestAmerica, Burlington**
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmeri

| | | |
|---|---|---|
| **Client Contact Information** | **Client Project Manager:** L. Reiker | **Samples Collected By:** RLD |
| Company Name: Turn Key Env Restoration, LLC | **Phone:** 716-856-0599 | |
| Address: 2558 Hamburg Turnpike | **Email:** | |
| City/State/Zip Buffalo, NY 14218 | **Site Contact:** R. Dubiel | |
| Phone: 716-856-0599 | **Tel/Fax** | |
| FAX: | **Analysis Turnaround Time** | |
| Project Name: 33 Scott St Hamburg | Standard (Specific): ✓ | |
| Site/Location: 33 Scott St Hamburg | Rush (Specifiy): | |
| P O # T0657-022-001 | | |

| Sample Identification | Sample Start Date | Time Start | Sample End Date | Time Stop | Canister Vacuum in Field, "Hg (Start) | Canister Vacuum in Field, "Hg (Stop) | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes section) | *Sample Type* | Indoor Air/Ambient Air | Sub-Slab | Soil Gas |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SSV-1 | 11/10/22 | 0827 | 11/10/22 | 1610 | -25 | -8 | 6550 | 9268 | ✓ | | | | | | | | | | |
| IA-1 | 11/10/22 | 0828 | 11/10/22 | 1615 | -25 | -8 | 3062 | 4235 | ✓ | | | | | | | | | | |
| OA-1 OUTDOOR AIR | 11/10/22 | 0855 | 11/10/22 | 1621 | -30 | -8 | 5505 | 3400243 | ✓ | | | | | | | | | | |

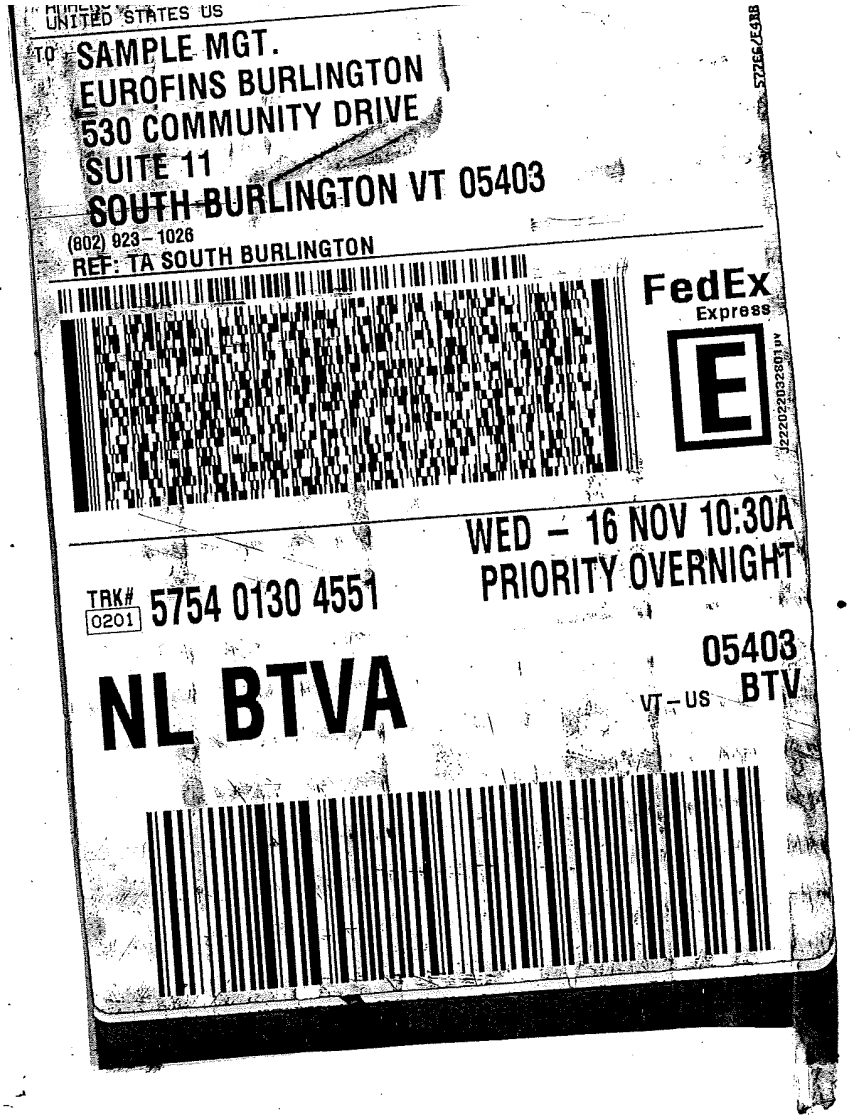
200-65790 Chain of Custody

| Temperature (Fahrenheit) | | | |
|---|---|---|---|
| Start | Interior | Ambient | 50° |
| Stop | | | 50° |

| Pressure (inches of Hg) | | |
|---|---|---|
| Start | Interior | Ambient |
| Stop | | |

**Special Instructions/QC Requirements & Comments:**

| | | |
|---|---|---|
| **Samples Shipped by:** | **Date / Time:** | **Samples Received by:** ETA-Bun 11/11/22 |
| **Samples Relinquished by:** | **Date / Time:** 11/10/22 0955 | **Received by:** |
| **Relinquished by:** | **Date / Time:** | **Received by:** |
| **Lab Use Only:** **Shipper Name:** | **Opened by:** | **Condition:** |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TO SAMPLE MGT.
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH BURLINGTON
FedEx
Express
WED - 16 NOV 10:30A
PRIORITY OVERNIGHT
TRK# 0201 5754 0130 4551
NL BTVA
05403
VT - US BTV

# Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 200-65790-1
SDG Number: 200-65790

**Login Number: 65790**
**List Number: 1**
**Creator: Khudaier, Zahraa**

**List Source: Eurofins Burlington**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | 1951764 |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | N/A | Thermal preservation not required. |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | N/A | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Pre-Shipment Clean Canister Certification Report

## Canister Cleaning & Pre-Shipment Leak Test

| System ID | Max DF# | # Cycles | Cleaning Start Date/Time | | System Start Temp(s): | | Technician | Can Size | Certification Type: |
|---|---|---|---|---|---|---|---|---|---|
| Oven 1/2 | 10 | 50 | 10/25/2022 | 1253 | 22 | 22 | SML | 6 liter | batch |

| | | | | | | Initial Reading | | | | | Final Reading | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Port | Can ID | Initial[1] (psia) | Final (psia) | Diff.[3] | Final ("Hg) | Gauge: | Date: | Time: | Tech: | Temp: | Gauge: | Date: | Time: | Tech: | Temp: |
| 1 | 3482 | 1.04 | 1.04 | 0 | 29.7 | G26 | 10/30/22 | 1241 | ← | 22.0 | G26 | 11/6/22 | 0948 | ← | 21.0 |
| 2 | 3660 | 1.04 | 1.04 | 0 | 29.8 | G26 | 10/26/22 | 1000 | ← | 22.0 | G26 | 10/30/22 | 1206 | ← | 26.0 |
| 3 | 5025 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 4 | 2899 | ↓ | 1.12 | 1.08 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 5 | 5160 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 6 | 9268 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 7 | 5082 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 8 | 3523 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 9 | 5161 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 10 | 34000267 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 11 | 5961 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 12 | 4070 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

**If time frame was not met, the PM must authorize shipment of canister** **PM Authorization** **Date:**

## Clean Canister Certification Analysis & Authorization of Release to Inventory

**Test Method:** ☒ TO15 Routine ☐ TO15 LL

| | | | | Inventory Level | | | | Secondary Review | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Can ID | Date | Sequence | Analyst | 1 | 2 | 3 | 4 | Limited | Review Date | Reviewer |
| 3482 | 10/28/22 | 530501 | AB1 | | XXXXXXX | | | | 10/28/22 | TDG |

**Inventory Level 1:** Individual Canister Certification (TO15LL 0.01).

**Inventory Level 2:** Individual or Batch Certification (TO15 0.04 ppbv).

**Inventory Level 3:** Individual or Batch Certification (TO15 0.2 ppbv).

**Inventory Level Limited:** Canisters may only be used for certain projects.

**Dup Tees/Vac gauges (enter IDs if included):**

**Comments:**

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11/23/2022

Form ID: FAI023:12
Revision Date: 12/18/2018

TestAmerica Burlington

200-65471-A-1
3482
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 10/25/2022 12:00 AM 200-1671386

Loc: 200
65471
#1 A
Air-Storag

# Pre-Shipment Clean Canister Certification Report

## Canister Cleaning & Pre-Shipment Leak Test

| System ID | Max DF# | # Cycles | Cleaning Start Date/Time | | System Start Temp(s): | | Technician | Can Size | Certification Type: |
|---|---|---|---|---|---|---|---|---|---|
| Top Rack | 100 | 50 | 10/28/2022 | 1341 | 23 | 23 | SML | 6 liter | batch |

| Port | Can ID | Initial[1] (psia) | Final (psia) | Diff.[3] | Final ("Hg) | Initial Reading Gauge: | Date: | Time: | Tech: | Temp: | Final Reading Gauge: | Date: | Time: | Tech: | Temp: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5424 | 1.04 | 1.04 | 0 | 30.0 | G26 | 10/31/22 | 0835 | ← | 26.0 | G26 | 11/2/22 | 1305 | ← | 22.0 |
| 2 | 34001293 | ↓ | 1.21 | 1.17 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 3 | 9264 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 4 | 4116 | 1.04 | 1.04 | 0 | 29.7 | G26 | 11/2/22 | 1357 | ← | 22.0 | G26 | 11/6/22 | 1151 | ← | 22.0 |
| 5 | 5157 | 1.04 | 1.04 | 0 | 30.0 | G26 | 10/31/22 | 0835 | ← | 26.0 | G26 | 11/2/22 | 1305 | ← | 22.0 |
| 6 | 4081 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 7 | 2509 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 8 | 3928 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 9 | 4235 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 10 | 3462 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 11 | 5026 | ↓ | 1.04 | 0 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |
| 12 | 4919 | ↓ | 1.19 | 1.15 | ↓ | G26 | ↓ | ↓ | ↓ | ↓ | G26 | ↓ | ↓ | ↓ | ↓ |

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

**If time frame was not met, the PM must authorize shipment of canister** **PM Authorization** **Date:**

## Clean Canister Certification Analysis & Authorization of Release to Inventory

**Test Method:** ☐TO15 Routine ☐ TO15 LL

| Can ID | Date | Sequence | Analyst | Inventory Level 1 | 2 | 3 | 4 | Secondary Review Limited | Review Date | Re |
|---|---|---|---|---|---|---|---|---|---|---|
| 4116 | 11/03/22 | 53123 | KP1 | | XXXXXXX | | | | 11/04/22 | QC |
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**Inventory Level 1:** Individual Canister Certification (TO15LL 0.01).

**Inventory Level 2:** Individual or Batch Certification (TO15 0.04 ppbv).

**Inventory Level 3:** Individual or Batch Certification (TO15 0.2 ppbv).

**Inventory Level Limited:** Canisters may only be used for certain projects.

**Dup Tees/Vac gauges (enter IDs if included):**

**Comments:**





Form ID: FAI023:12
Revision Date: 12/18/2018

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington  Job No.: 200-65471-1

SDG No.:

Client Sample ID: 3482  Lab Sample ID: 200-65471-1

Matrix: Air  Lab File ID: 53059-006.d

Analysis Method: TO-15  Date Collected: 10/25/2022 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 10/27/2022 12:02

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

Purge Volume:  Heated Purge: (Y/N)  pH:

% Moisture:  % Solids:  Level: (low/med) Low

Analysis Batch No.: 185139  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 100-41-4 | Ethylbenzene | 0.040 | U | 0.040 | 0.010 |
| 100-42-5 | Styrene | 0.040 | U | 0.040 | 0.012 |
| 10061-01-5 | 1,3-Dichloropropene, cis- | 0.040 | U | 0.040 | 0.0090 |
| 10061-02-6 | 1,3-Dichloropropene, trans- | 0.040 | U | 0.040 | 0.011 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.040 | U | 0.040 | 0.018 |
| 106-93-4 | 1,2-Dibromoethane | 0.040 | U | 0.040 | 0.0084 |
| 106-99-0 | 1,3-Butadiene | 0.040 | U | 0.040 | 0.0078 |
| 107-05-1 | Allyl chloride | 0.10 | U | 0.10 | 0.024 |
| 107-06-2 | 1,2-Dichloroethane | 0.040 | U | 0.040 | 0.019 |
| 108-10-1 | Methyl isobutyl ketone (MIBK) | 0.10 | U | 0.10 | 0.026 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.040 | U | 0.040 | 0.0094 |
| 108-88-3 | Toluene | 0.040 | U | 0.040 | 0.0084 |
| 108-90-7 | Chlorobenzene | 0.040 | U | 0.040 | 0.0088 |
| 109-99-9 | Tetrahydrofuran | 1.0 | U | 1.0 | 0.26 |
| 110-54-3 | Hexane | 0.10 | U | 0.10 | 0.022 |
| 110-82-7 | Cyclohexane | 0.040 | U | 0.040 | 0.012 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.10 | U | 0.10 | 0.066 |
| 123-91-1 | 1,4-Dioxane | 0.040 | U | 0.040 | 0.016 |
| 124-48-1 | Dibromochloromethane | 0.040 | U | 0.040 | 0.013 |
| 127-18-4 | Tetrachloroethene | 0.040 | U | 0.040 | 0.0042 |
| 142-82-5 | n-Heptane | 0.040 | U | 0.040 | 0.011 |
| 156-59-2 | 1,2-Dichloroethene, cis- | 0.040 | U | 0.040 | 0.0042 |
| 156-60-5 | 1,2-Dichloroethene, trans- | 0.040 | U | 0.040 | 0.0046 |
| 1634-04-4 | Methyl tert-butyl ether | 0.040 | U | 0.040 | 0.0072 |
| 179601-23-1 | m,p-Xylene | 0.10 | U | 0.10 | 0.019 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.040 | U | 0.040 | 0.0076 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.040 | U | 0.040 | 0.015 |
| 56-23-5 | Carbon tetrachloride | 0.040 | U | 0.040 | 0.0044 |
| 593-60-2 | Vinyl bromide | 0.040 | U | 0.040 | 0.010 |
| 622-96-8 | 4-Ethyltoluene | 0.040 | U | 0.040 | 0.0098 |
| 64-17-5 | Ethanol | 1.0 | U | 1.0 | 0.52 |
| 67-63-0 | Isopropanol | 1.0 | U | 1.0 | 0.32 |
| 67-64-1 | Acetone | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 0.040 | U | 0.040 | 0.0082 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-65471-1

SDG No.:

Client Sample ID: 3482 Lab Sample ID: 200-65471-1

Matrix: Air Lab File ID: 53059-006.d

Analysis Method: TO-15 Date Collected: 10/25/2022 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 10/27/2022 12:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 185139 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 0.040 | U | 0.040 | 0.0088 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | U | 0.040 | 0.0088 |
| 74-83-9 | Bromomethane | 0.040 | U | 0.040 | 0.014 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.10 | 0.030 |
| 75-00-3 | Chloroethane | 0.10 | U | 0.10 | 0.036 |
| 75-01-4 | Vinyl chloride | 0.040 | U | 0.040 | 0.0042 |
| 75-09-2 | Methylene Chloride | 0.10 | U | 0.10 | 0.036 |
| 75-15-0 | Carbon disulfide | 0.10 | U | 0.10 | 0.026 |
| 75-25-2 | Bromoform | 0.040 | U | 0.040 | 0.024 |
| 75-27-4 | Bromodichloromethane | 0.040 | U | 0.040 | 0.010 |
| 75-34-3 | 1,1-Dichloroethane | 0.040 | U | 0.040 | 0.0050 |
| 75-35-4 | 1,1-Dichloroethene | 0.040 | U | 0.040 | 0.0052 |
| 75-65-0 | tert-Butyl alcohol | 1.0 | U | 1.0 | 0.24 |
| 75-69-4 | Trichlorofluoromethane | 0.040 | U | 0.040 | 0.010 |
| 75-71-8 | Dichlorodifluoromethane | 0.10 | U | 0.10 | 0.022 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.040 | U | 0.040 | 0.011 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 0.040 | U | 0.040 | 0.0096 |
| 78-87-5 | 1,2-Dichloropropane | 0.040 | U | 0.040 | 0.019 |
| 78-93-3 | Methyl ethyl ketone (MEK) | 0.10 | U | 0.10 | 0.098 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.040 | U | 0.040 | 0.015 |
| 79-01-6 | Trichloroethene | 0.040 | U | 0.040 | 0.0050 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | U | 0.040 | 0.0086 |
| 80-62-6 | Methyl methacrylate | 0.10 | U | 0.10 | 0.028 |
| 87-68-3 | Hexachlorobutadiene | 0.040 | U | 0.040 | 0.022 |
| 91-20-3 | Naphthalene | 0.10 | U | 0.10 | 0.060 |
| 95-47-6 | Xylene, o- | 0.040 | U | 0.040 | 0.010 |
| 95-49-8 | 2-Chlorotoluene | 0.040 | U | 0.040 | 0.0092 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.040 | U | 0.040 | 0.013 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.040 | U | 0.040 | 0.016 |
| 591-78-6 | 2-Hexanone | 0.10 | U | 0.10 | 0.030 |

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d
Lims ID: 200-65471-A-1
Client ID: 3482
Sample Type: Client
Inject. Date: 27-Oct-2022 12:02:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0053059-006
Misc. Info.: 65471-1
Operator ID: vtp Instrument ID: CHW.i

Method: \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\TO15_TO3_MasterMethod_W.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Oct-2022 11:22:18 Calib Date: 20-Oct-2022 08:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20221019-52933.b\52933-021.d

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: bunmaa Date: 28-Oct-2022 11:22:18

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 1 Propene | 41 | | 4.062 | | | | ND | 7 |
| | 2 Dichlorodifluoromethane | 85 | | 4.158 | | | | ND | 7 |
| | 3 Chlorodifluoromethane | 51 | | 4.201 | | | | ND | 7 |
| | 4 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | | 4.506 | | | | ND | |
| | 5 Chloromethane | 50 | | 4.618 | | | | ND | 7 |
| | 6 Vinyl chloride | 62 | | 4.918 | | | | ND | |
| | 7 Butane | 43 | | 4.918 | | | | ND | 7 |
| | 8 Butadiene | 54 | | 5.030 | | | | ND | |
| | 9 Bromomethane | 94 | | 5.736 | | | | ND | |
| | 10 Chloroethane | 64 | | 5.998 | | | | ND | 7 |
| | 13 Vinyl bromide | 106 | | 6.416 | | | | ND | |
| | 14 Trichlorofluoromethane | 101 | 6.598 | 6.598 | 0.016 | 28 | 1930 | 0.0105 | 7M |
| | 16 Ethanol | 45 | | 6.956 | | | | ND | 7 |
| | 20 1,1-Dichloroethene | 96 | | 7.630 | | | | ND | |
| | 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 7.700 | 7.700 | 0.022 | 26 | 1636 | 0.0166 | 7M |
| | 22 Acetone | 43 | | 7.710 | | | | ND | |
| | 23 Isopropyl alcohol | 45 | | 8.015 | | | | ND | 7 |
| | 24 Carbon disulfide | 76 | 8.037 | 8.037 | 0.000 | 56 | 3103 | 0.0327 | M |
| | 26 3-Chloro-1-propene | 41 | | 8.331 | | | | ND | 7 |
| | 27 Methylene Chloride | 49 | | 8.556 | | | | ND | 7 |
| | 28 2-Methyl-2-propanol | 59 | | 8.780 | | | | ND | |
| | 30 trans-1,2-Dichloroethene | 61 | | 9.058 | | | | ND | 7 |
| | 31 Methyl tert-butyl ether | 73 | | 9.074 | | | | ND | 7 |
| | 32 Hexane | 57 | | 9.561 | | | | ND | 7 |
| | 33 1,1-Dichloroethane | 63 | | 9.813 | | | | ND | 7 |
| | 34 Vinyl acetate | 43 | | 9.829 | | | | ND | 7 |
| S | 35 1,2-Dichloroethene, Total | 61 | | 10.200 | | | | ND | 7 |
| | 36 2-Butanone (MEK) | 72 | | 10.770 | | | | ND | 7 |
| | 37 cis-1,2-Dichloroethene | 96 | | 10.792 | | | | ND | 7 |
| | 38 Ethyl acetate | 88 | | 10.861 | | | | ND | |
| * | 39 Chlorobromomethane | 128 | 11.198 | 11.204 | -0.006 | 79 | 247243 | 10.0 | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 40 Tetrahydrofuran | 42 | | 11.263 | | | | ND | 7 |
| | 41 Chloroform | 83 | | 11.386 | | | | ND | |
| | 42 1,1,1-Trichloroethane | 97 | | 11.685 | | | | ND | |
| | 43 Cyclohexane | 84 | | 11.824 | | | | ND | 7 |
| | 44 Carbon tetrachloride | 117 | | 11.963 | | | | ND | |
| | 45 Benzene | 78 | | 12.311 | | | | ND | 7 |
| | 46 1,2-Dichloroethane | 62 | | 12.381 | | | | ND | |
| | 47 Isooctane | 57 | | 12.530 | | | | ND | |
| | 48 n-Heptane | 43 | | 12.841 | | | | ND | 7 |
| * | 49 1,4-Difluorobenzene | 114 | 13.044 | 13.044 | 0.000 | 95 | 1238767 | 10.0 | |
| | 51 Trichloroethene | 95 | | 13.477 | | | | ND | |
| | 53 1,2-Dichloropropane | 63 | | 13.927 | | | | ND | |
| | 54 Methyl methacrylate | 69 | | 14.023 | | | | ND | |
| | 55 1,4-Dioxane | 88 | | 14.071 | | | | ND | |
| | 57 Dibromomethane | 174 | | 14.082 | | | | ND | 7 |
| | 58 Dichlorobromomethane | 83 | | 14.397 | | | | ND | |
| | 59 cis-1,3-Dichloropropene | 75 | | 15.195 | | | | ND | 7 |
| | 61 4-Methyl-2-pentanone (MIBK) | 43 | | 15.462 | | | | ND | 7 |
| | 62 Toluene | 92 | | 15.837 | | | | ND | |
| | 66 trans-1,3-Dichloropropene | 75 | | 16.254 | | | | ND | |
| | 67 1,1,2-Trichloroethane | 83 | | 16.628 | | | | ND | |
| | 68 Tetrachloroethene | 166 | | 16.826 | | | | ND | |
| | 69 2-Hexanone | 43 | | 17.046 | | | | ND | 7 |
| | 70 Chlorodibromomethane | 129 | | 17.361 | | | | ND | |
| | 71 Ethylene Dibromide | 107 | | 17.602 | | | | ND | |
| * | 73 Chlorobenzene-d5 | 117 | 18.511 | 18.517 | -0.006 | 92 | 999949 | 10.0 | |
| | 74 Chlorobenzene | 112 | | 18.570 | | | | ND | |
| | 75 Ethylbenzene | 91 | | 18.768 | | | | ND | 7 |
| | 76 m-Xylene & p-Xylene | 106 | | 19.025 | | | | ND | |
| | 78 o-Xylene | 106 | | 19.801 | | | | ND | |
| | 79 Styrene | 104 | | 19.838 | | | | ND | |
| S | 80 Xylenes, Total | 106 | | 20.100 | | | | ND | 7 |
| | 81 Bromoform | 173 | | 20.197 | | | | ND | 7 |
| | 82 Isopropylbenzene | 105 | | 20.528 | | | | ND | 7 |
| | 83 1,1,2,2-Tetrachloroethane | 83 | | 21.063 | | | | ND | 7 |
| | 85 N-Propylbenzene | 91 | | 21.266 | | | | ND | 7 |
| | 86 2-Chlorotoluene | 91 | | 21.416 | | | | ND | 7 |
| | 87 4-Ethyltoluene | 105 | | 21.470 | | | | ND | 7 |
| | 88 1,3,5-Trimethylbenzene | 105 | | 21.571 | | | | ND | 7 |
| | 91 tert-Butylbenzene | 119 | | 22.058 | | | | ND | |
| | 92 1,2,4-Trimethylbenzene | 105 | | 22.149 | | | | ND | 7 |
| | 93 sec-Butylbenzene | 105 | | 22.390 | | | | ND | 7 |
| | 94 1,3-Dichlorobenzene | 146 | 22.567 | 22.567 | 0.006 | 22 | 1183 | 0.0112 | M |
| | 95 4-Isopropyltoluene | 119 | | 22.609 | | | | ND | 7 |
| | 96 1,4-Dichlorobenzene | 146 | | 22.706 | | | | ND | MU |
| | 97 Benzyl chloride | 91 | | 22.850 | | | | ND | 7 |
| | 98 n-Butylbenzene | 91 | | 23.166 | | | | ND | 7 |
| | 99 1,2-Dichlorobenzene | 146 | | 23.187 | | | | ND | 7 |
| | 102 1,2,4-Trichlorobenzene | 180 | | 25.568 | | | | ND | 7 |
| | 103 Hexachlorobutadiene | 225 | | 25.814 | | | | ND | 7 |
| | 104 Naphthalene | 128 | | 26.028 | | | | ND | MU |

## QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

## Reagents:

ATTO15WISs_00009 Amount Added: 20.00 Units: mL Run Reagent

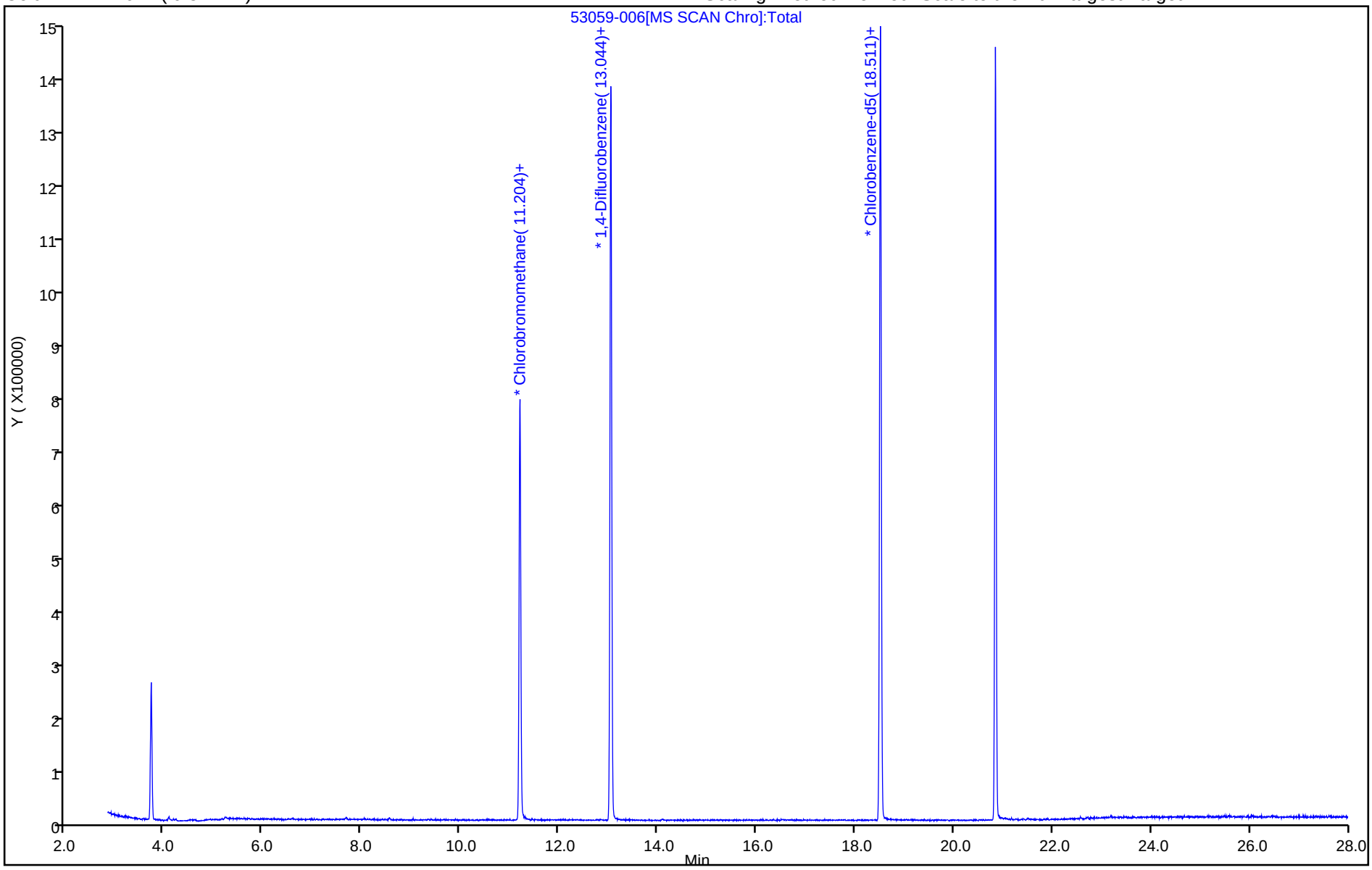
Report Date: 28-Oct-2022 11:22:18 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Oct-2022 12:02:30 | Instrument ID: | CHW.i | Operator ID: | vtp |
| Lims ID: | 200-65471-A-1 | Lab Sample ID: | 200-65471-1 | Worklist Smp#: | 6 |
| Client ID: | 3482 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | ALS Bottle#: | 5 |
| Method: | TO15_TO3_MasterMethod_W | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



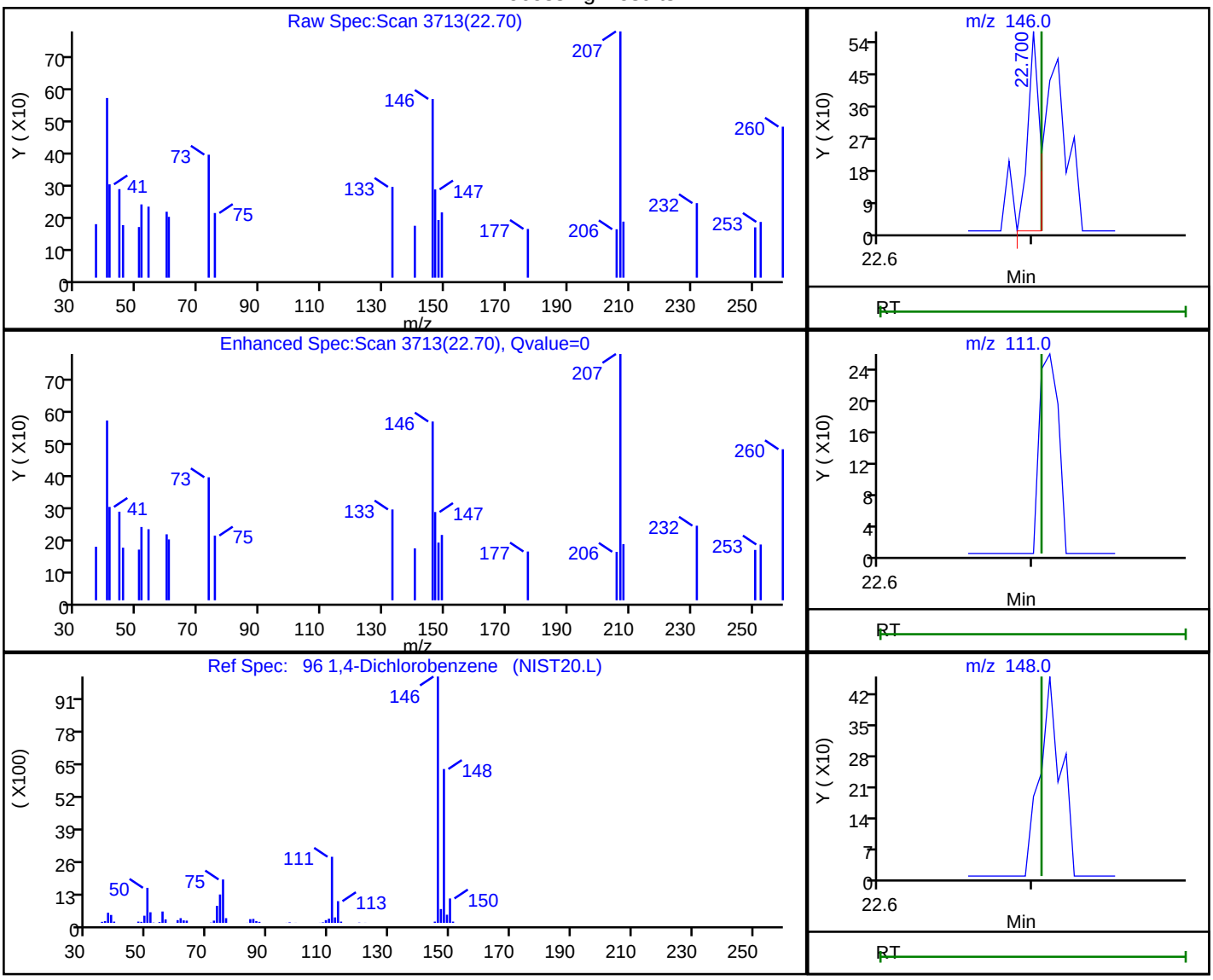
User Disabled Compound Report

Eurofins Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d | | | | |
| Injection Date: | 27-Oct-2022 12:02:30 | Instrument ID: | CHW.i | | |
| Lims ID: | 200-65471-A-1 | Lab Sample ID: | 200-65471-1 | | |
| Client ID: | 3482 | | | | |
| Operator ID: | vtp | ALS Bottle#: | 5 | Worklist Smp#: | 6 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_TO3_MasterMethod_W | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 96 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 22.70 | 146.00 | 301 | 0.003094 |
| 22.71 | 111.00 | 0 | |
| 22.71 | 148.00 | 0 | |

Reviewer: bunmaa, 28-Oct-2022 11:21:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Burlington

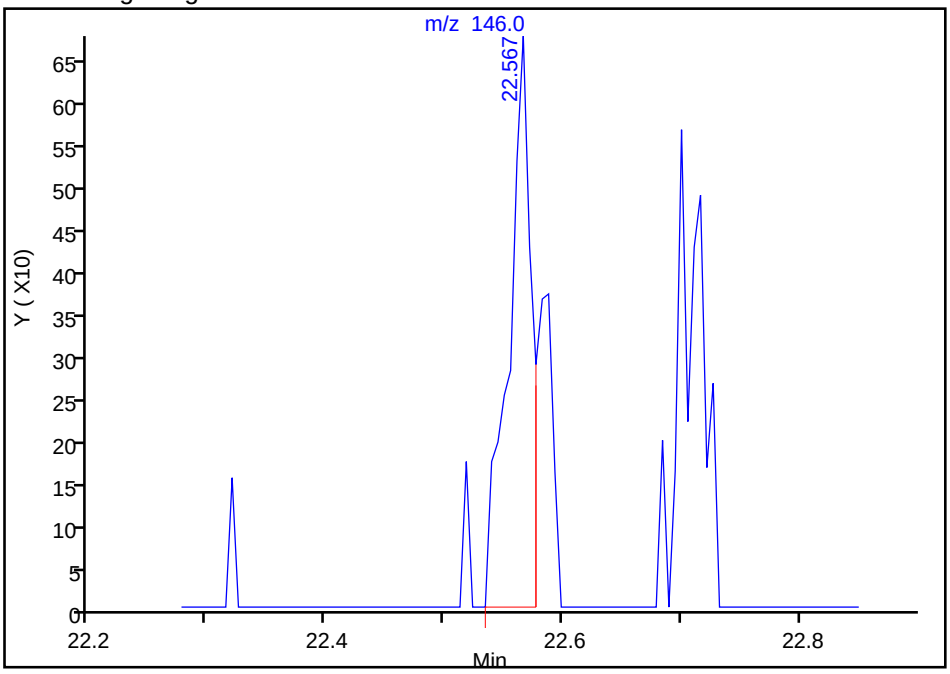
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d | | | | |
| Injection Date: | 27-Oct-2022 12:02:30 | Instrument ID: | CHW.i | | |
| Lims ID: | 200-65471-A-1 | Lab Sample ID: | 200-65471-1 | | |
| Client ID: | 3482 | | | | |
| Operator ID: | vtp | ALS Bottle#: | 5 | Worklist Smp#: | 6 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_TO3_MasterMethod_W | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 94 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

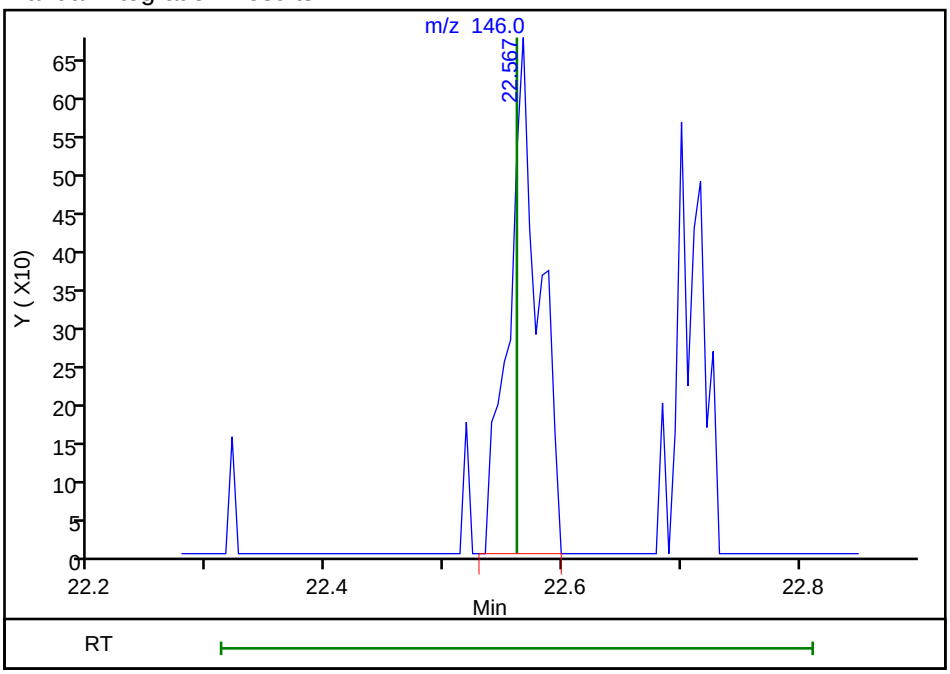
Processing Integration Results

RT: 22.57
Area: 897
Amount: 0.008467
Amount Units: ppb v/v




Manual Integration Results

RT: 22.57
Area: 1183
Amount: 0.011167
Amount Units: ppb v/v




Reviewer: bunmaa, 28-Oct-2022 11:20:59

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

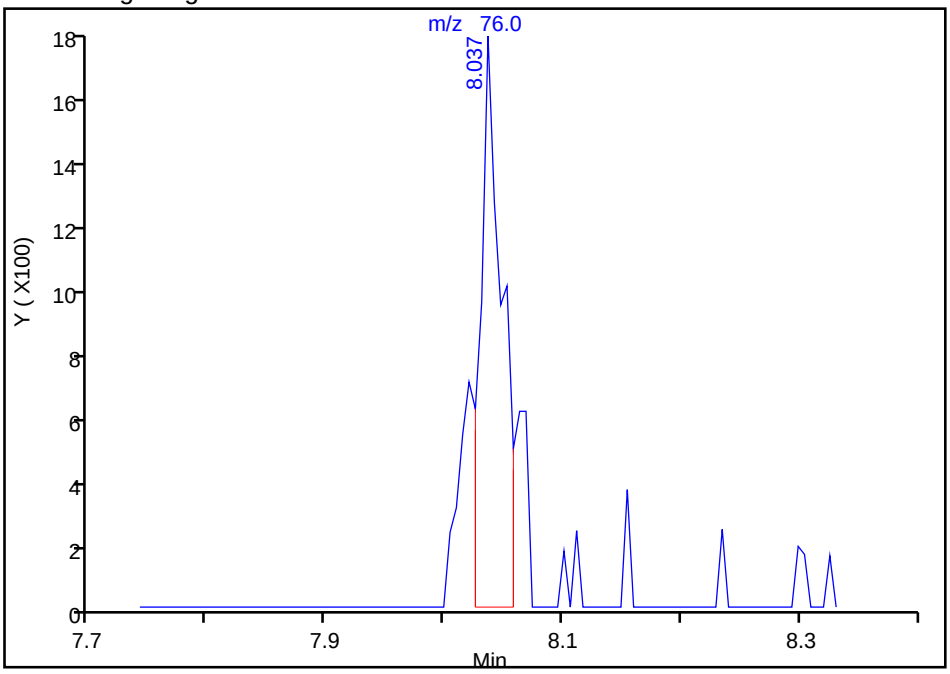
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d | | | | |
| Injection Date: | 27-Oct-2022 12:02:30 | Instrument ID: | CHW.i | | |
| Lims ID: | 200-65471-A-1 | Lab Sample ID: | 200-65471-1 | | |
| Client ID: | 3482 | | | | |
| Operator ID: | vtp | ALS Bottle#: | 5 | Worklist Smp#: | 6 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_TO3_MasterMethod_W | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 24 Carbon disulfide, CAS: 75-15-0

Signal: 1

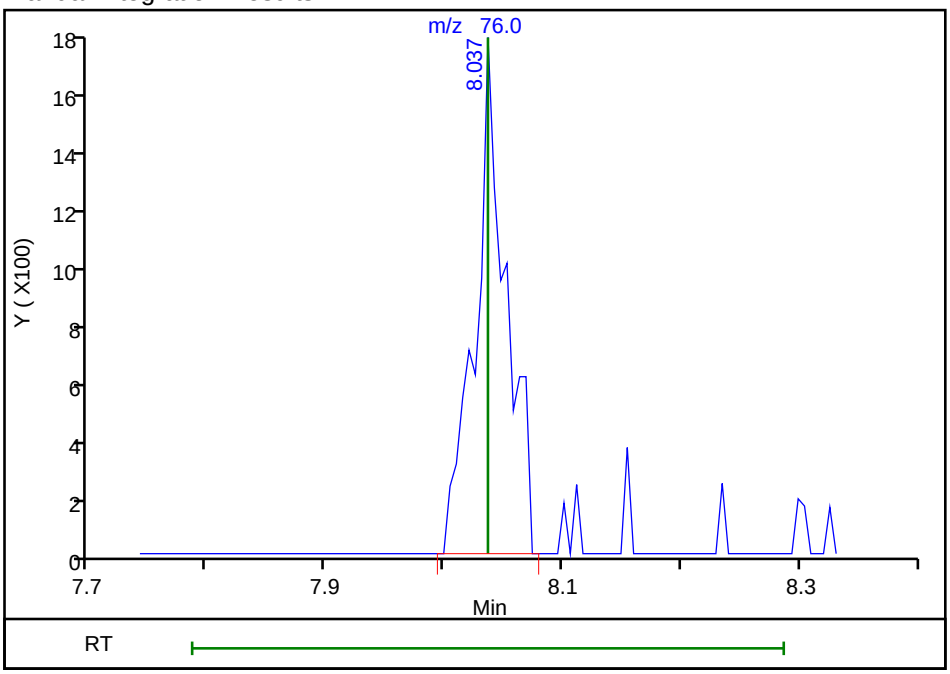
Processing Integration Results

RT: 8.04
Area: 2176
Amount: 0.022920
Amount Units: ppb v/v




Manual Integration Results

RT: 8.04
Area: 3103
Amount: 0.032685
Amount Units: ppb v/v




Reviewer: bunmaa, 28-Oct-2022 11:19:16
Audit Action: Manually Integrated Audit Reason: Assign Peak

Eurofins Burlington

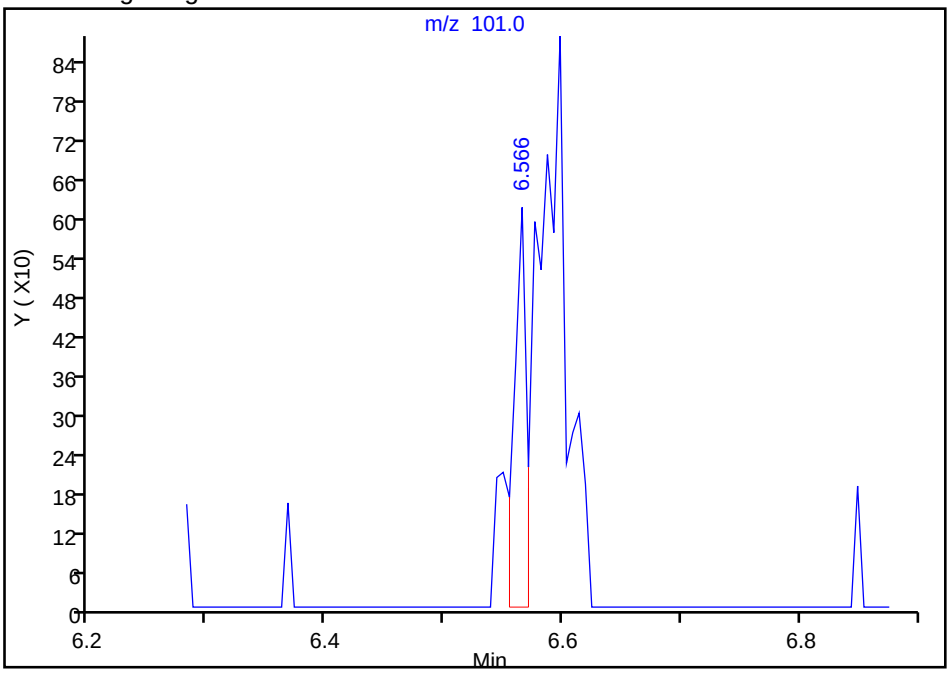
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d | | | | |
| Injection Date: | 27-Oct-2022 12:02:30 | Instrument ID: | CHW.i | | |
| Lims ID: | 200-65471-A-1 | Lab Sample ID: | 200-65471-1 | | |
| Client ID: | 3482 | | | | |
| Operator ID: | vtp | ALS Bottle#: | 5 | Worklist Smp#: | 6 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_TO3_MasterMethod_W | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

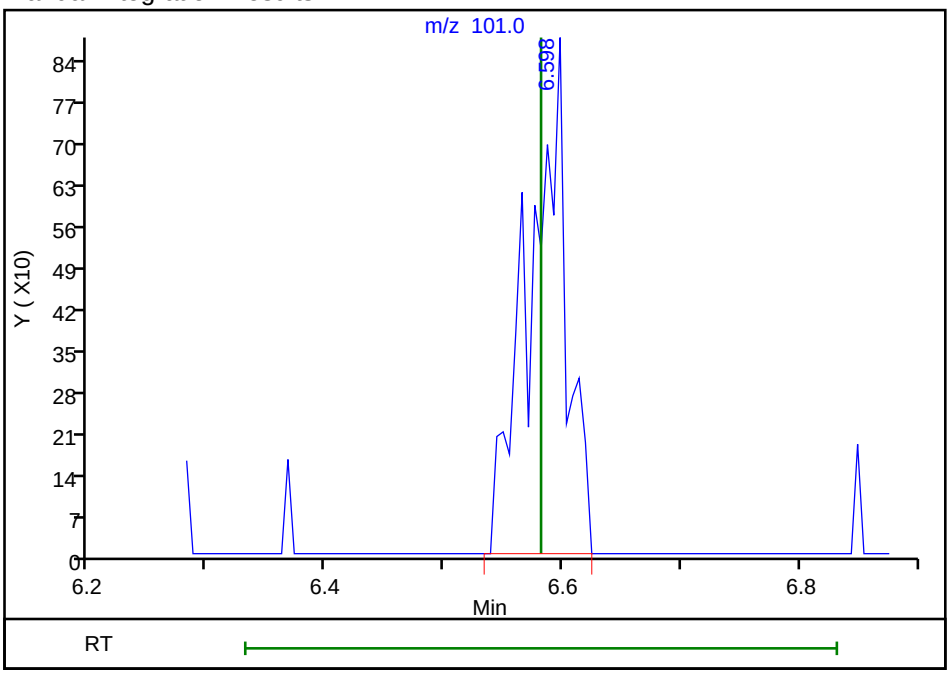
Processing Integration Results

RT: 6.57
Area: 441
Amount: 0.002410
Amount Units: ppb v/v




Manual Integration Results

RT: 6.60
Area: 1930
Amount: 0.010547
Amount Units: ppb v/v




Reviewer: bunmaa, 28-Oct-2022 11:18:31
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

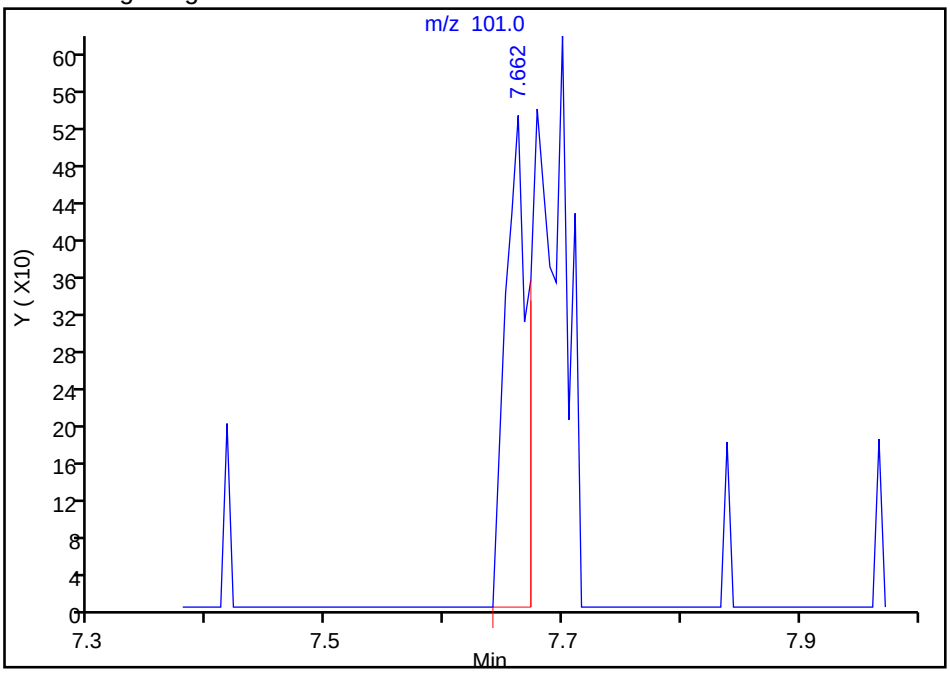
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d | | | | |
| Injection Date: | 27-Oct-2022 12:02:30 | Instrument ID: | CHW.i | | |
| Lims ID: | 200-65471-A-1 | Lab Sample ID: | 200-65471-1 | | |
| Client ID: | 3482 | | | | |
| Operator ID: | vtp | ALS Bottle#: | 5 | Worklist Smp#: | 6 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_TO3_MasterMethod_W | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 21 1,1,2-Trichloro-1,2,2-trifluoroe, CAS: 76-13-1

Signal: 1

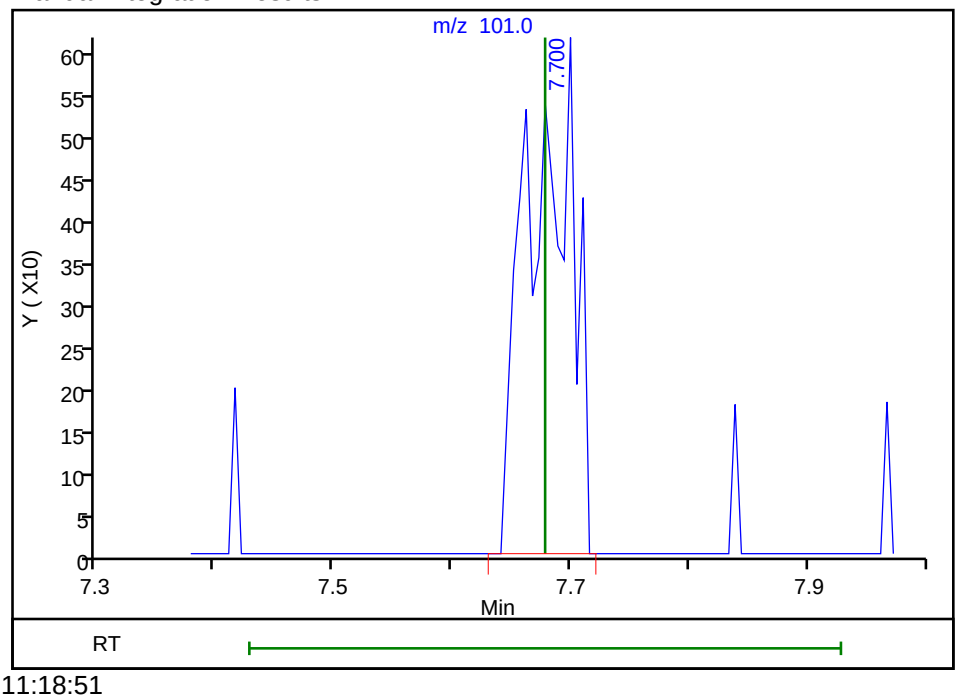
Processing Integration Results

RT: 7.66
Area: 685
Amount: 0.006948
Amount Units: ppb v/v




Manual Integration Results

RT: 7.70
Area: 1636
Amount: 0.016593
Amount Units: ppb v/v




Reviewer: bunmaa, 28-Oct-2022 11:18:51

Audit Action: Manually Integrated Audit Reason: Assign Peak

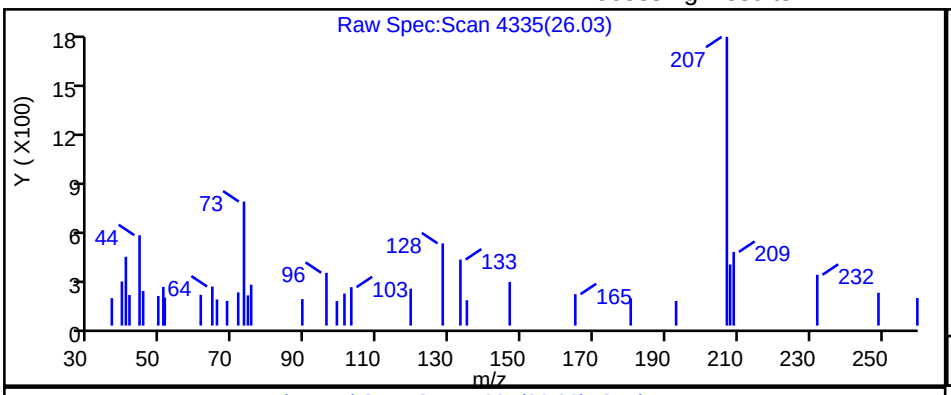
User Disabled Compound Report

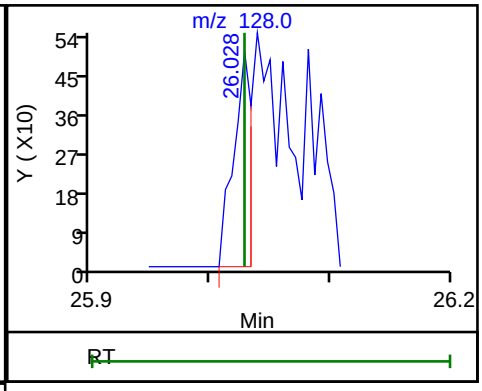
Eurofins Burlington

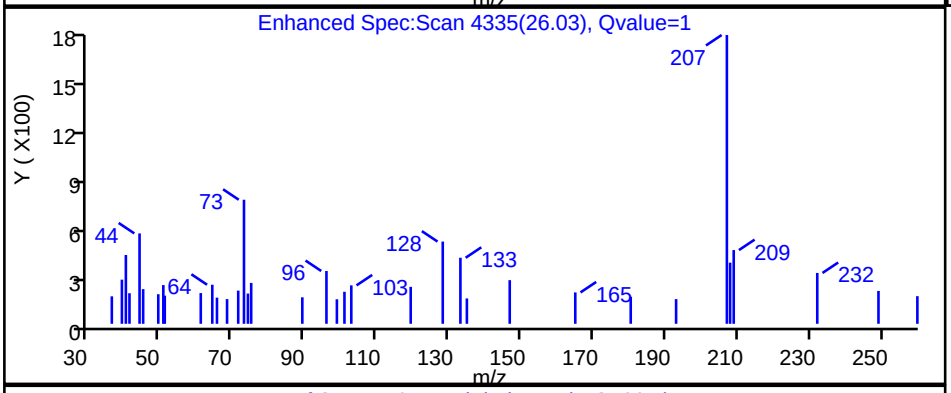
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHW.i\20221027-53059.b\53059-006.d | | | | |
| Injection Date: | 27-Oct-2022 12:02:30 | Instrument ID: | CHW.i | | |
| Lims ID: | 200-65471-A-1 | Lab Sample ID: | 200-65471-1 | | |
| Client ID: | 3482 | | | | |
| Operator ID: | vtp | ALS Bottle#: | 5 | Worklist Smp#: | 6 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_TO3_MasterMethod_W | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

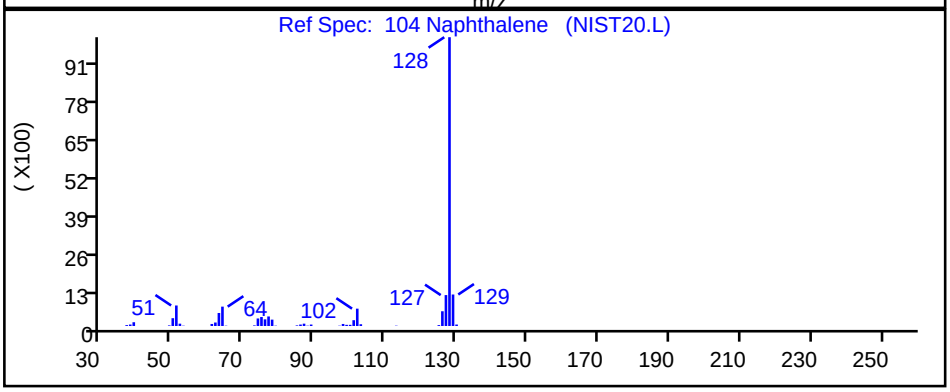
## 104 Naphthalene, CAS: 91-20-3

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 26.03 | 128.00 | 517 | 0.003538 |

Reviewer: bunmaa, 28-Oct-2022 11:22:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington  Job No.: 200-65534-1

SDG No.:

Client Sample ID: 4116  Lab Sample ID: 200-65534-4

Matrix: Air  Lab File ID: 53123-05.D

Analysis Method: TO-15  Date Collected: 10/28/2022 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 11/01/2022 12:51

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

Purge Volume:  Heated Purge: (Y/N)  pH:

% Moisture:  % Solids:  Level: (low/med) Low

Analysis Batch No.: 185278  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 115-07-1 | Propylene | 1.0 | U | 1.0 | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | 0.10 | U | 0.10 | 0.10 |
| 75-45-6 | Freon 22 | 0.10 | U | 0.10 | 0.10 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 0.040 | U | 0.040 | 0.040 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.10 | 0.10 |
| 106-97-8 | n-Butane | 0.10 | U | 0.10 | 0.10 |
| 75-01-4 | Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 106-99-0 | 1,3-Butadiene | 0.040 | U | 0.040 | 0.040 |
| 74-83-9 | Bromomethane | 0.040 | U | 0.040 | 0.040 |
| 75-00-3 | Chloroethane | 0.10 | U | 0.10 | 0.10 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 0.040 | U | 0.040 | 0.040 |
| 75-69-4 | Trichlorofluoromethane | 0.040 | U | 0.040 | 0.040 |
| 64-17-5 | Ethanol | 1.0 | U | 1.0 | 1.0 |
| 76-13-1 | Freon TF | 0.040 | U | 0.040 | 0.040 |
| 75-35-4 | 1,1-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 67-64-1 | Acetone | 1.0 | U | 1.0 | 1.0 |
| 67-63-0 | Isopropyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 75-15-0 | Carbon disulfide | 0.10 | U | 0.10 | 0.10 |
| 107-05-1 | 3-Chloropropene | 0.10 | U | 0.10 | 0.10 |
| 75-09-2 | Methylene Chloride | 0.10 | U | 0.10 | 0.10 |
| 75-65-0 | tert-Butyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 1634-04-4 | Methyl tert-butyl ether | 0.040 | U | 0.040 | 0.040 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 110-54-3 | n-Hexane | 0.10 | U | 0.10 | 0.10 |
| 75-34-3 | 1,1-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 108-05-4 | Vinyl acetate | 1.0 | U | 1.0 | 1.0 |
| 141-78-6 | Ethyl acetate | 1.0 | U | 1.0 | 1.0 |
| 78-93-3 | Methyl Ethyl Ketone | 0.10 | U | 0.10 | 0.10 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 540-59-0 | 1,2-Dichloroethene, Total | 0.080 | U | 0.080 | 0.080 |
| 67-66-3 | Chloroform | 0.040 | U | 0.040 | 0.040 |
| 109-99-9 | Tetrahydrofuran | 1.0 | U | 1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 110-82-7 | Cyclohexane | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington  Job No.: 200-65534-1

SDG No.:

Client Sample ID: 4116  Lab Sample ID: 200-65534-4

Matrix: Air  Lab File ID: 53123-05.D

Analysis Method: TO-15  Date Collected: 10/28/2022 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 11/01/2022 12:51

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

Purge Volume:  Heated Purge: (Y/N)  pH:

% Moisture:  % Solids:  Level: (low/med) Low

Analysis Batch No.: 185278  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | 0.040 | U | 0.040 | 0.040 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.040 | U | 0.040 | 0.040 |
| 71-43-2 | Benzene | 0.040 | U | 0.040 | 0.040 |
| 107-06-2 | 1,2-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 142-82-5 | n-Heptane | 0.040 | U | 0.040 | 0.040 |
| 79-01-6 | Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 80-62-6 | Methyl methacrylate | 0.10 | U | 0.10 | 0.10 |
| 78-87-5 | 1,2-Dichloropropane | 0.040 | U | 0.040 | 0.040 |
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | 0.040 | U | 0.040 | 0.040 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 108-10-1 | methyl isobutyl ketone | 0.10 | U | 0.10 | 0.10 |
| 108-88-3 | Toluene | 0.040 | U | 0.040 | 0.040 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 127-18-4 | Tetrachloroethene | 0.040 | U | 0.040 | 0.040 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 0.10 | U | 0.10 | 0.10 |
| 124-48-1 | Dibromochloromethane | 0.040 | U | 0.040 | 0.040 |
| 106-93-4 | 1,2-Dibromoethane | 0.040 | U | 0.040 | 0.040 |
| 108-90-7 | Chlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 100-41-4 | Ethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 179601-23-1 | m,p-Xylene | 0.10 | U | 0.10 | 0.10 |
| 95-47-6 | Xylene, o- | 0.040 | U | 0.040 | 0.040 |
| 1330-20-7 | Xylene (total) | 0.14 | U | 0.14 | 0.14 |
| 100-42-5 | Styrene | 0.040 | U | 0.040 | 0.040 |
| 75-25-2 | Bromoform | 0.040 | U | 0.040 | 0.040 |
| 98-82-8 | Cumene | 0.040 | U | 0.040 | 0.040 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | U | 0.040 | 0.040 |
| 103-65-1 | n-Propylbenzene | 0.040 | U | 0.040 | 0.040 |
| 622-96-8 | 4-Ethyltoluene | 0.040 | U | 0.040 | 0.040 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-49-8 | 2-Chlorotoluene | 0.040 | U | 0.040 | 0.040 |
| 98-06-6 | tert-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 200-65534-1

SDG No.:

Client Sample ID: 4116 | Lab Sample ID: 200-65534-4

Matrix: Air | Lab File ID: 53123-05.D

Analysis Method: TO-15 | Date Collected: 10/28/2022 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 11/01/2022 12:51

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: | Heated Purge: (Y/N) pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 185278 | Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 135-98-8 | sec-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 99-87-6 | 4-Isopropyltoluene | 0.040 | U | 0.040 | 0.040 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 100-44-7 | Benzyl chloride | 0.040 | U *+ | 0.040 | 0.040 |
| 104-51-8 | n-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.10 | U | 0.10 | 0.10 |
| 87-68-3 | Hexachlorobutadiene | 0.040 | U | 0.040 | 0.040 |
| 91-20-3 | Naphthalene | 0.10 | U | 0.10 | 0.10 |

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20221101-53123.b\53123-05.D
Lims ID: 200-65534-A-4
Client ID: 4116
Sample Type: Client
Inject. Date: 01-Nov-2022 12:51:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0053123-005
Misc. Info.: 65534-4
Operator ID: vtp Instrument ID: CHX.i

Method: \\chromfs\Burlington\ChromData\CHX.i\20221101-53123.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 02-Nov-2022 07:47:04 Calib Date: 05-Oct-2022 01:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20221004-52704.b\52704-13.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: CTX1655

First Level Reviewer: puangmaleek Date: 02-Nov-2022 07:47:04

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | | 4.349 | | | | ND | 7 |
| 3 Dichlorodifluoromethane | 85 | | 4.445 | | | | ND | |
| 4 Chlorodifluoromethane | 51 | | 4.482 | | | | ND | 7 |
| 5 1,2-Dichloro-1,1,2,2-tetrafluoro | 85 | | 4.798 | | | | ND | |
| 6 Chloromethane | 50 | | 4.910 | | | | ND | 7 |
| 7 Vinyl chloride | 62 | | 5.221 | | | | ND | |
| 8 Butane | 43 | | 5.226 | | | | ND | 7 |
| 9 Butadiene | 54 | | 5.333 | | | | ND | |
| 10 Bromomethane | 94 | | 6.028 | | | | ND | |
| 12 Chloroethane | 64 | | 6.290 | | | | ND | |
| 14 Vinyl bromide | 106 | | 6.708 | | | | ND | |
| 15 Trichlorofluoromethane | 101 | | 6.868 | | | | ND | |
| 17 Ethanol | 45 | 7.296 | 7.221 | 0.075 | 97 | 2165 | 0.1330 | |
| 20 1,1-Dichloroethene | 96 | | 7.906 | | | | ND | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 7.949 | | | | ND | |
| 22 Acetone | 43 | | 7.986 | | | | ND | 7 |
| 23 Isopropyl alcohol | 45 | | 8.297 | | | | ND | 7 |
| 24 Carbon disulfide | 76 | | 8.329 | | | | ND | 7 |
| 27 3-Chloro-1-propene | 41 | | 8.591 | | | | ND | 7 |
| 28 Methylene Chloride | 49 | | 8.810 | | | | ND | 7 |
| 29 2-Methyl-2-propanol | 59 | | 9.094 | | | | ND | |
| 32 trans-1,2-Dichloroethene | 61 | | 9.318 | | | | ND | |
| 31 Methyl tert-butyl ether | 73 | | 9.351 | | | | ND | |
| S 33 1,2-Dichloroethene, Total | 61 | | 9.665 | | | | ND | 7 |
| 34 Hexane | 57 | | 9.827 | | | | ND | |
| 36 1,1-Dichloroethane | 63 | | 10.067 | | | | ND | |
| 35 Vinyl acetate | 43 | | 10.078 | | | | ND | |
| 37 2-Butanone (MEK) | 72 | | 11.025 | | | | ND | |
| 38 cis-1,2-Dichloroethene | 96 | | 11.046 | | | | ND | |
| 39 Ethyl acetate | 88 | | 11.116 | | | | ND | |
| * 40 Chlorobromomethane | 128 | 11.458 | 11.453 | 0.005 | 76 | 221595 | 10.0 | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 41 Tetrahydrofuran | 42 | | 11.528 | | | | ND | |
| | 42 Chloroform | 83 | | 11.629 | | | | ND | |
| | 43 1,1,1-Trichloroethane | 97 | | 11.945 | | | | ND | |
| | 44 Cyclohexane | 84 | | 12.100 | | | | ND | |
| | 45 Carbon tetrachloride | 117 | | 12.234 | | | | ND | |
| | 46 Benzene | 78 | | 12.566 | | | | ND | 7 |
| | 47 1,2-Dichloroethane | 62 | | 12.635 | | | | ND | |
| | 48 Isooctane | 57 | | 12.785 | | | | ND | |
| | 49 n-Heptane | 43 | | 13.095 | | | | ND | 7 |
| * | 50 1,4-Difluorobenzene | 114 | 13.293 | 13.293 | 0.000 | 94 | 1118049 | 10.0 | |
| | 52 Trichloroethene | 95 | | 13.727 | | | | ND | |
| | 55 1,2-Dichloropropane | 63 | | 14.176 | | | | ND | |
| | 56 Methyl methacrylate | 69 | | 14.262 | | | | ND | |
| | 58 Dibromomethane | 174 | | 14.331 | | | | ND | |
| | 57 1,4-Dioxane | 88 | | 14.347 | | | | ND | |
| | 59 Dichlorobromomethane | 83 | | 14.636 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 15.433 | | | | ND | |
| | 62 4-Methyl-2-pentanone (MIBK) | 43 | | 15.717 | | | | ND | |
| | 63 Toluene | 92 | | 16.080 | | | | ND | 7 |
| | 67 trans-1,3-Dichloropropene | 75 | | 16.482 | | | | ND | |
| | 68 1,1,2-Trichloroethane | 83 | | 16.856 | | | | ND | |
| | 69 Tetrachloroethene | 166 | | 17.075 | | | | ND | 7 |
| | 70 2-Hexanone | 43 | | 17.380 | | | | ND | |
| | 71 Chlorodibromomethane | 129 | | 17.605 | | | | ND | |
| | 72 Ethylene Dibromide | 107 | | 17.846 | | | | ND | |
| * | 73 Chlorobenzene-d5 | 117 | 18.750 | 18.750 | 0.000 | 87 | 968287 | 10.0 | |
| | 74 Chlorobenzene | 112 | | 18.809 | | | | ND | MU |
| | 75 Ethylbenzene | 91 | | 19.001 | | | | ND | 7 |
| | 76 m-Xylene & p-Xylene | 106 | | 19.264 | | | | ND | 7 |
| S | 78 Xylenes, Total | 106 | | 19.600 | | | | ND | 7 |
| | 79 o-Xylene | 106 | | 20.034 | | | | ND | |
| | 80 Styrene | 104 | | 20.066 | | | | ND | |
| | 81 Bromoform | 173 | | 20.419 | | | | ND | |
| | 82 Isopropylbenzene | 105 | | 20.735 | | | | ND | 7 |
| | 83 1,1,2,2-Tetrachloroethane | 83 | | 21.238 | | | | ND | 7 |
| | 85 N-Propylbenzene | 91 | | 21.452 | | | | ND | 7 |
| | 86 2-Chlorotoluene | 91 | | 21.601 | | | | ND | 7 |
| | 87 4-Ethyltoluene | 105 | | 21.649 | | | | ND | 7 |
| | 88 1,3,5-Trimethylbenzene | 105 | | 21.746 | | | | ND | 7 |
| | 91 tert-Butylbenzene | 119 | | 22.227 | | | | ND | |
| | 92 1,2,4-Trimethylbenzene | 105 | | 22.318 | | | | ND | 7 |
| | 93 sec-Butylbenzene | 105 | | 22.554 | | | | ND | 7 |
| | 94 1,3-Dichlorobenzene | 146 | | 22.730 | | | | ND | 7 |
| | 95 4-Isopropyltoluene | 119 | | 22.773 | | | | ND | 7 |
| | 96 1,4-Dichlorobenzene | 146 | 22.874 | 22.869 | 0.005 | 93 | 1555 | 0.0127 | |
| | 97 Benzyl chloride | 91 | | 23.008 | | | | ND | 7 |
| | 98 n-Butylbenzene | 91 | | 23.324 | | | | ND | 7 |
| | 99 1,2-Dichlorobenzene | 146 | | 23.356 | | | | ND | 7 |
| | 102 1,2,4-Trichlorobenzene | 180 | | 25.779 | | | | ND | 7 |
| | 103 Hexachlorobutadiene | 225 | | 26.026 | | | | ND | |
| | 104 Naphthalene | 128 | | 26.250 | | | | ND | 7 |

## QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

## Reagents:

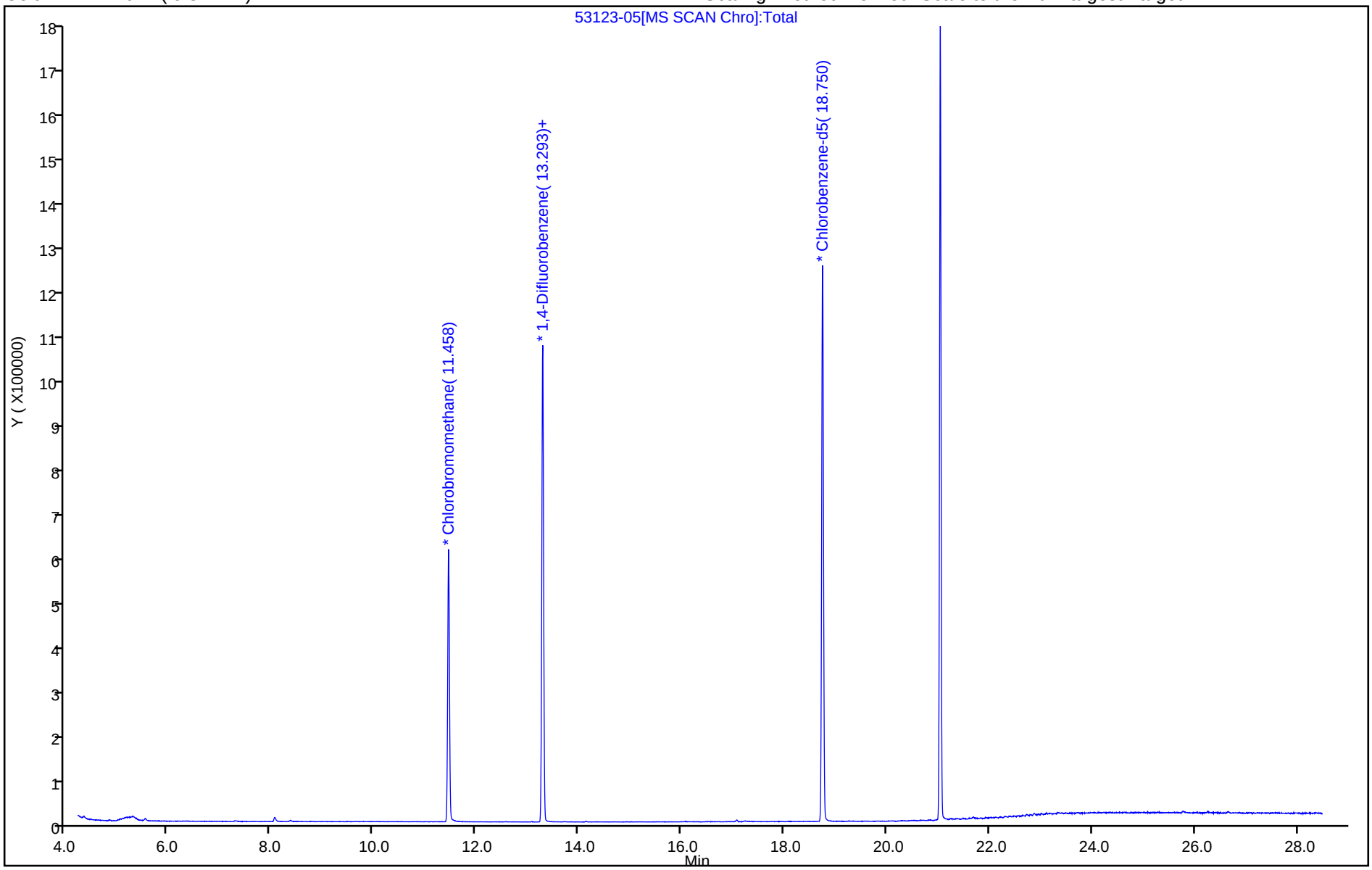
ATTO15XISs_00003 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 02-Nov-2022 07:47:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHX.i\20221101-53123.b\53123-05.D | | | | |
| Injection Date: | 01-Nov-2022 12:51:30 | Instrument ID: | CHX.i | Operator ID: | vtp |
| Lims ID: | 200-65534-A-4 | Lab Sample ID: | 200-65534-4 | Worklist Smp#: | 5 |
| Client ID: | 4116 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | ALS Bottle#: | 5 |
| Method: | TO15_MasterMethod_X.m | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



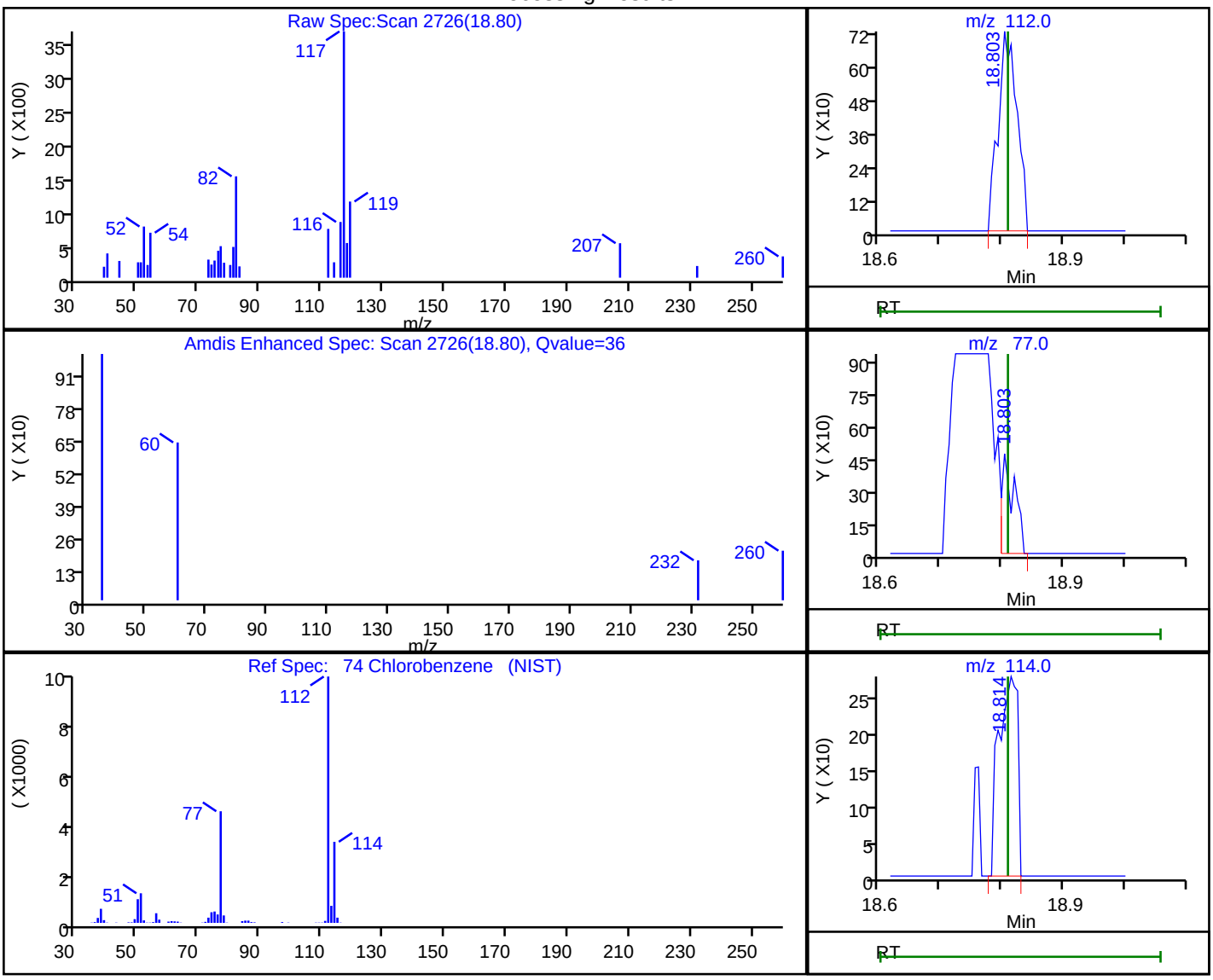
User Disabled Compound Report

Eurofins Burlington

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\chromfs\Burlington\ChromData\CHX.i\20221101-53123.b\53123-05.D | | | | |
| Injection Date: | 01-Nov-2022 12:51:30 | Instrument ID: | CHX.i | | |
| Lims ID: | 200-65534-A-4 | Lab Sample ID: | 200-65534-4 | | |
| Client ID: | 4116 | | | | |
| Operator ID: | vtp | ALS Bottle#: | 5 | Worklist Smp#: | 5 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_MasterMethod_X.m | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 74 Chlorobenzene, CAS: 108-90-7

Processing Results




| RT | Mass | Response | Amount |
|---|---|---|---|
| 18.80 | 112.00 | 1550 | 0.014105 |
| 18.80 | 77.00 | 658 | |
| 18.81 | 114.00 | 595 | |

Reviewer: puangmaleek, 02-Nov-2022 07:46:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

# Eurofins Burlington

## Job Notes

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

## Authorization

Generated
11/23/2022 10:06:56 AM

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