June 12, 2017

Ms. Claire Quadri
Environmental Engineer
Niagara Frontier Transportation Authority
181 Ellicott Street
Buffalo, New York 14203

Re: Soil Vapor Intrusion Assessment
NFTA ARFF Facility
Amherst Villa Road
Cheektowaga, New York

Dear Ms. Quadri:

Turnkey Environmental Restoration, LLC (TurnKey) has prepared this letter to summarize the results of the soil vapor intrusion (SVI) assessment completed on May 11, 2017 at the Niagara Frontier Transportation Authority (NFTA) Airport Rescue and Fire Facility (ARFF) located along Amherst Villa Road, in Cheektowaga, New York (Site; see Figure 1). TurnKey was requested to complete the SVI assessment of the new ARFF building prior to occupancy.

SOIL VAPOR INTRUSION TESTING

In accordance with New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) sampling protocols, three (3) sub-slab air samples and three (3) interior air sample were collected from within the inhabitable space of the ARFF used as training rooms, control center, offices, dormitory space and associated facilities. One (1) outdoor ambient air sample was also collected to assess the background conditions concurrent with the interior sampling. The approximate sampling locations are shown on the attached Figure 1. The sampling was completed in accessible areas of the building, with NFTA concurrence. Building construction, area usage, and floor covering were taken into account when selecting the sampling locations.

Indoor air (IA-1) and sub-slab sample (SS-1) were collected from within a hallway in the northern central portion of the building, which will be used as a dormitory. IA-2 and SS-2 were collected from the television room located in the southern portion of the building. IA-3 and SS-3 were collected from the training room located in the western portion of the building.

The Apparatus Bays where the fire fighting vehicles and equipment will be stored was not evaluated as part of the SVI assessment. This area contains radiant heat within the concrete floors and will not be used for housing.

The Outdoor Ambient air sample was collected south of the ARFF, upwind of the indoor and sub-slab sampling area. The wind appeared to be coming out of the southeast on the day the sampling was completed. The seven (7) air samples collected were analyzed for volatile organic compounds (VOCs) via EPA Method TO-15. The samples were collected for an approximate 4-hour period.

During the sample collection, an assessment of the sampling areas was completed (see Attachment 1 for the Building Inventory forms). Carpet adhesive was noted in the television room but no organic vapors were noted when the container was screened with the photoionization detector (PID). There were also boxes of carpet tiles and vinyl baseboard in the television room. The PID background levels in these areas ranged from non-detect to 0.1 part per million (ppm).

No products were noted in the hallway and/or television room.

The three (3) indoor air samples were generally collected within 10 feet of the sub-slab sample at a location 3 to 5 feet above the floor grade, approximate breathing zone of an individual sitting at a desk or standing within the sampling area. The Outdoor Ambient air sample was hung from the chain link fence at an approximate height of 4 to 5 feet above the ground surface on the southeastern side of the ARFF. The wind appeared to be out of the southeast on the day of the SVI work.

At the three (3) sub-slab sampling locations, TurnKey personnel drilled an approximate ½ inch diameter hole through a competent portion of the concrete slab using a hand-held hammer drill to allow for installation of sample collection tubing. The sub-slab air sample setup and collection was completed in the following manner:

- After installation of the tubing through the hole in the concrete slab, the sample tubing was sealed at the surface with non-VOC containing clay;
- Helium tracer gas was used to verify surface seal of the sub-slab sampling locations. A helium detector with internal air pump was connected to the tubing to monitor the sub-slab air for helium prior to releasing the helium into a shroud placed over the sampling point;
- When helium detector readings were within acceptable levels (i.e., less than 10% helium), the surface seals considered to be acceptable;
- Initial vacuum readings were recorded for each regulator;
- The air samples were collected using laboratory provided Summa® air collection canisters equipped with pre-set timed regulators to draw vapors into the canisters over an approximate 4-hour period; and,
- Following the sample collection period, regulators were closed, final vacuum readings recorded, and the canisters were delivered under chain of custody command to TestAmerica for analysis of VOCs per USEPA TO-15 methodology.

SAMPLE RESULTS

The vast majority of VOCs reported by the laboratory were non-detect or J qualified indicating the compounds were detected above the method detection limit (MDL) but below the reporting limit

(RL). Low-level detections of several VOCs were detected in the sub-slab, indoor, and outdoor air samples. The complete laboratory report is provided in Attachment 2.

Table 1 is a summary of the analytical results for the detected VOCs from the 7 samples.

Table 2 is a comparison of the indoor air and sub-slab air samples to the NYSDOH Decision Matrices in the Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. The VOCs subject to the NYSDOH SVI Guidance are carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, 1,1,1-trichloroethane, trichloroethene, tetrachloroethene, vinyl chloride and methylene chloride.

Four (4) of the above-referenced VOCs (carbon tetrachloride, trichloroethene, tetrachloroethene and methylene chloride) were detected in one or more of the indoor air or sub-slab samples collected. Carbon tetrachloride and methylene chloride were detected in the Outdoor Ambient air sample at a concentration of 0.42 micrograms per cubic meter (ug/m^3) and 0.82 ug/m^3, respectively.

The results of the detections are as follows:

Carbon tetrachloride was detected in the three (3) indoor air samples and in two (2) of the sub-slab samples. The response for the detected concentrations of carbon tetrachloride at the three (3) sample locations according to the NYSDOH Decision Matrix A is "no further action". We note that concentrations detected in the indoor air and sub-slab samples were relatively consistent with the background concentrations, which suggests the source of the indoor air detections is likely from the contribution of outdoor air.

Trichloroethene was detected in one (1) sub-slab sample (SS-1) at a concentration of 0.83 ug/m^3 and was not detected in the indoor air samples. The response according to NYSDOH Decision Matrix A is "no further action".

Methylene chloride was detected in the three (3) indoor air samples, three (3) sub-slab samples and the Outdoor Ambient air sample. The response for the detected concentrations of carbon tetrachloride at the three (3) sample locations according to the NYSDOH Decision Matrix B is "no further action". We note that sub-slab sample results were reported with a B qualifier which indicates the compound was also detected in the laboratory method blank and potentially associated with internal laboratory contamination as methylene chloride is commonly used in the laboratory. The indoor air concentration were relatively consistent with the background concentration of methylene chloride, which suggests the source of the indoor air detections is likely from the contribution of outdoor air.

Tetrachloroethene was detected in two (2) sub-slab samples at concentrations of 0.41 and 0.65 ug/m^3 and was not detected in the indoor air samples. The NYSDOH Decision Matrix B response for the detected concentrations of tetrachloroethene at the two (2) sub-slab location is "no further action".

Table 3 provides the indoor air samples (IA-1 through IA-3) relative to two (2) additional criteria to provide comparative criteria for the other VOCs detected that are not subject to the NYSDOH Decision Matrices. The Outdoor Ambient Sample was also included to provide background data. These additional criteria are as follows:

1. American Conference of Governmental Industrial Hygienists (ACGIH), 2017 Threshold Limit Values (TLVs).
2. Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs).

No VOCS were detected above their respective ACGIH TLVs or OSHA PELs, which are the applicable criteria for use in evaluating a workplace environment.

It is TurnKey's opinion that based on this assessment, no air quality concerns were identified within the NFTA ARFF building that would require additional action at this time.

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

Christopher Boron
Sr. Project Manager

Michael Lesakowski
Principal

Attachments
Figure 1 – Site Plan and Sample Locations
Table 1 – Soil Vapor and Outdoor Air Sample Results
Table 2 – Comparison of Air sampling Results vs. NYSDOH Matrices
Table 3 – Summary of Indoor Air Sampling Results
Attachment 1 – Building Inventory Forms
Attachment 2 – Laboratory Analytical Report

File: 0375-017-001

TABLES

TABLE 1

SUMMARY OF AIR SAMPLING RESULTS
NFTA ARFF FACILITY
AMHERST VILLA ROAD
CHEEKTOWAGA, NEW YORK

PARAMETER [1]	OUTDOOR AMBIENT	SS-1	IA-1	SS-2	IA-2	SS-3	IA-3
Volatile Organic Compounds via EPA TO-15 list (ug/m3)							
Dichlorodifluoromethane	2.3 J	2.4 J	2.4 J	1.3 J	2.3 J	2.4 J	2.5
Chloromethane	1.1	--	1.2	--	1.1	1.3 J	1.3
1,3-Butadiene	--	2.4	--	--	--	3.3	--
Acetone	--	160	15	58	9.5 J	100	7.9 J
Trichlorofluoromethane	1.2	--	1.2	1.4 J	1.2	1.3 J	1.2
Isopropyl alcohol	--	--	1.9 J	3.5 J	--	4.4 J	--
Tertiary Butyl Alcohol	--	--	--	--	--	13 J	--
Methylene Chloride	0.82 J	4.2 J B	1.1 J	4.3 B	1.2 J	2.1 J B	0.91 J
Carbon disulfide	--	3.6 J	--	2.1 J	--	4.2	--
Freon-113 (Freon TF)	0.52 J	--	0.59 J	0.57 J	0.6 J	0.63 J	0.62 J
2-Butanone (MEK)	--	32	2.9	7.6	2.3	14	--
Chloroform	--	--	--	2 B	--	--	--
Tetrahydofuran	--	--	--	--	--	14 J	--
1,2-Dichlorotetrafluoroethane	--	--	--	1.6 J	--	--	--
n-hexane	--	380	0.55 J	170	0.35 J	200	0.31 J
Benzene	0.19 J	9.7	0.24 J	14	0.22 J	17	0.22 J
Cyclohexane	--	320	0.33 J	190	--	180	0.23 J
1,4-Dioxane	--	18 J	--	--	--	--	--
2,2,4-Trimethylpentane	--	--	--	--	--	4.6	--
n-Heptane	--	290	0.7 J	270	0.41 J	170	0.43 J
Toluene	0.2 J	19	2.3	28	2.4	24	1.7
2-Hexanone	--	8.2 J	--	--	--	--	--
Ethylbenzene	--	7.2	3.7	6.8	5.6	7.1	5.1
p/m-xylene	--	25	12	26	20	24	17
Styrene	--	1.2 J	0.57 J	0.39 J	0.92	0.63 J	0.45 J
o-xylene	--	7	2.8	6.1	4.5	4.8	3.9
Xylene (total)	--	32	15	33	24	29	21
1,3,5-Trimethylbenzene	--	1.1 J	--	0.64 J	0.41 J	--	--
1,2,4-Trimethylbenzene	--	2 J	--	0.81 J	0.44 J	0.57 J	0.39 J
1,2-Dichlorobenzene	--	3.4 J	--	--	--	--	--
Carbon Tetrachloride	0.42 J	--	0.44 J	0.56 J	0.44 J	0.45 J	0.48 J
Trichloroethene	--	0.83 J	--	--	--	--	--
Tetrachloroethene	--	--	--	0.41 J	--	0.65 J	--

Notes:

1. Only those parameters detected above the method detection limit, at a minimum of one location, are presented in this table.

Definitions:

-- = compound was not detected above method detection limits.
J = estimated concentraton
B = compounds was detected in the laboratory method blank and sample.

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 2

COMPARISON AIR SAMPLING ANALYTICAL RESULTS VS. NYSDOH MATRICES
NFTA ARFF FACILITY
AMHERST VILLA ROAD
CHEEKTOWAGA, NEW YORK

Sample Location	Carbon Tetrachloride		Trichloroethene (TCE)		cis-1,2-Dichloroethene		1,1-Dichloroethene		Methylene Chloride		Tetrachloroethene (PCE)		1,1,1 -Trichloroethane		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
IA-1/SS-1																
Subslab	ND		0.83 J		ND		ND		4.2 JB		ND		ND		ND	
Indoor	0.44 J	NFA	ND	NFA	ND	NFA	ND	NFA	1.1 J	NFA	ND	NFA	ND	NFA	ND	NFA
Outdoor Air	0.42 J		ND		ND		ND		0.82 J		ND		ND		ND	
IA-2 /SS-2																
Subslab	0.56 J		ND		ND		ND		4.3 B		0.41 J		ND		ND	
Indoor	0.44 J	NFA	ND	NFA	ND	NFA	ND	NFA	1.2 J	NFA	ND	NFA	ND	NFA	ND	NFA
Outdoor Air	0.42 J		ND		ND		ND		0.82 J		ND		ND		ND	
IA-3/SS-3																
Subslab	0.45 J		ND		ND		ND		2.1 JB		0.65 J		ND		ND	
Indoor	0.48 J	NFA	ND	NFA	ND	NFA	ND	NFA	0.91 J	NFA	ND	NFA	ND	NFA	ND	NFA
Outdoor Air	0.42 J		ND		ND		ND		0.82 J		ND		ND		ND	

Notes:

ND = Not Detected

NFA = No further action.

J = estimated concentration.

B = compound was also detected in the laboratory blank sample.

= NYSDOH Matrix A Compounds

= NYSDOH Matrix B Compounds

= NYSDOH Matrix C Compound

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 3

SUMMARY OF INDOOR AIR SAMPLING RESULTS
NFTA ARFF FACILITY
AMHERST VILLA ROAD
CHEEKTOWAGA, NEW YORK

PARAMETER [1]	ACGIH 2017 TLV [2]	OSHA PEL [3] (ug/m3)	OUTDOOR AMBIENT [4]	IA-1	IA-2	IA-3
Volatile Organic Compounds (ug/m^3)						
Dichlorodifluoromethane	**4,208,998**	**4,950,000**	2.3 J	2.4 J	2.3 J	2.5
Chloromethane	**103,252**	**206,503**	1.1	1.2	1.1	1.3
Acetone	**593,865**	**2,400,000**	ND	15	9.5 J	7.9 J
Trichlorofluoromethane	**5,618,814**	**5,600,000**	1.2	1.2	1.2	1.2
Isopropyl alcohol	**491,000**	**980,000**	ND	1.9 J	ND	ND
Methylene Chloride	**173,701**	**86,851**	0.82 J	1.1 J	1.2 J	0.91 J
Freon-113 (Freon TF)	**7,664,213**	**7,600,000**	0.52 J	0.59 J	0.6 J	0.62 J
2-Butanone (MEK)	**589,775**	**590,000**	ND	2.9	2.3	ND
n-hexane	**176,217**	**1,800,000**	ND	0.55 J	0.35 J	0.31 J
Benzene	**1,597**	**31,947**	0.19 J	0.24 J	0.22 J	0.22 J
Cyclohexane	**344,213**	**1,050,000**	ND	0.33 J	ND	0.23 J
n-Heptane	**1,639,264**	**2,000,000**	ND	0.7 J	0.41 J	0.43 J
Toluene	**75,362**	**753,620**	ND	2.3	2.4	1.7
2-Hexanone	**20,483**	**410,000**	0.2 J	ND	ND	ND
Ethylbenzene	**86,838**	**435,000**	ND	3.7	5.6	5.1
p/m-xylene	**434,233**	**435,000**	ND	12	20	17
Styrene	**85,186**	**425,930**	ND	0.57 J	0.92	0.45 J
o-xylene	**434,233**	**435,000**	ND	2.8	4.5	3.9
Xylene (total)	**434,233**	**435,000**	ND	15	24	21
1,3,5-Trimethylbenzene	**NV**	**NV**	ND	ND	0.41 J	ND
1,2,4-Trimethylbenzene	**NV**	**NV**	ND	ND	0.44 J	0.39 J
Carbon Tetrachloride	**31,460**	**62,920**	0.42 J	0.44 J	0.44 J	0.48 J

Notes:

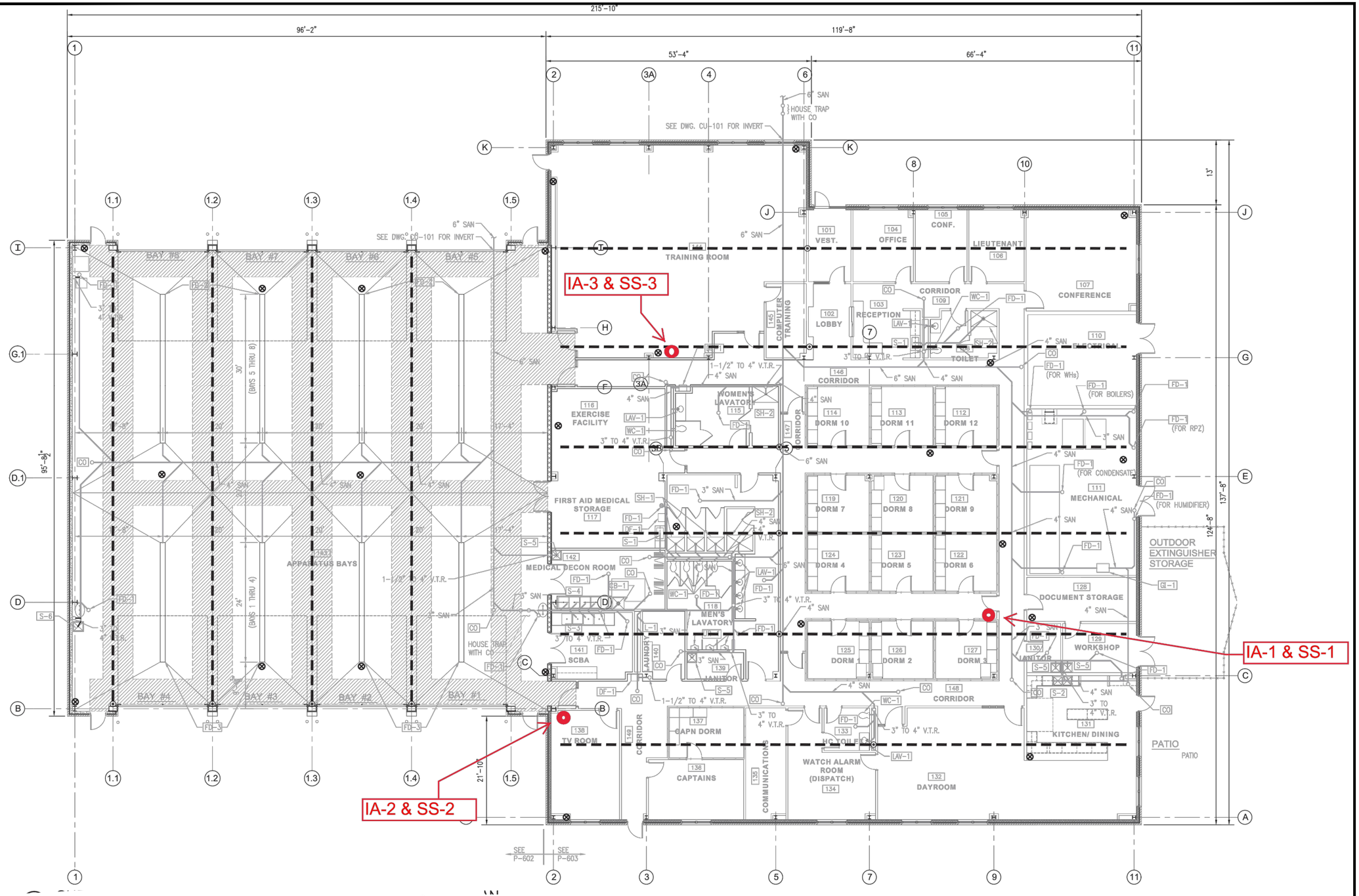
1. Only those parameters detected above the method detection limit, at a minimum of one location, are presented in this table.
2. American Conference of Governmental Industrial Hygienists, 2017 Threshold Limit Values.
3. Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) from 29 CFR 1910.1000 Z-1 Table or Z-2 Table amended June 23, 2006.
4. Outdoor Ambient sample results included on this table to provide background data.

Definitions:

J = estimated concentration.
ND = not detect.
NV = no value.

FIGURE

F:\CAD\TurnKey\NFTA\Buffalo Niagara Airport ARFF Building\Figure 1 - Sub-Slab Sample Locations.dwg



20' 0' 20' 40'

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

SITE PLAN PER URS ARCHITECTURE & ENGINEERING, NEW YORK, P.C.

DATE: JUNE 2017
DRAFTED BY: CMC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0375-017-001

SOIL VAPOR INTRUSION STUDY SAMPLE LOCATIONS

SUB-SLAB SOIL VAPOR SAMPLING
NFTA BUFFALO NIAGARA AIRPORT ARFF BUILDING
CHEEKTOWAGA, NEW YORK
PREPARED FOR
NFTA

FIGURE 1

ATTACHMENT 1

BUILDING INVENTORY FORMS

BENCHMARK

TurnKey Environmental Restoration, LLC

INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

Project Name: NFTA Airport Rescue + Fire Facility Project No. T0375-017-0001

Project Location: BNIA / Amherst Villa Rd Client: NFTA

Preparer's Name: Charlotte Clark Date/Time: 5/11/2017 1145

Preparer's Affiliation: Turnkey Env. Restoration Phone No: 716-856-0635

Purpose of Investigation: Soil Vapor Intrusion Assessment of new ARFF.

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: Peck First Name: Darrin

Address: 181 Elliott Street, Buffalo, NY

County: Erie

Home Phone: Office Phone: 716-225-1958

3. BUILDING CHARACTERISTICS

Type of Building: check appropriate response)

☐ Residential	☐ School	☐ Commercial/Multi-use
☐ Industrial	☐ Church	☒ Other: Airport Rescue Fire Facility w/ dormitories

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): Airport Rescue + Fire Facility

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

Other Characteristics:

Number of floors 1 Building age <1 year

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:

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: NA	☐ full	☐ crawlspace	☐ slab	
c. Basement floor: NA	☐ concrete	☐ dirt	☐ stone	
d. Basement floor: NA	☐ 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: NA	☐ wet	☐ damp	☐ dry	
i. The basement is: NA	☐ finished	☐ unfinished	☐ partially finished	
j. Sump present? NA	☐ yes	☐ no		
k. Water in Sump? NA	☐ yes	☐ no	☐ not applicable	

Basement/Lowest level depth below grade: slab on grade main floor

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

NFTA ARFF is a new building with slab on grade construction. No soil vapor entry points were observed

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)

- [x] Hot air circulation
- [ ] Heat pump
- [ ] Hot water baseboard
- [ ] Space Heaters
- [ ] Steam radiation
- [ ] Radiant floor
- [ ] Electric baseboard
- [ ] Wood stove
- [ ] Outdoor wood boiler
- [ ] Other

The primary type of fuel used is:

- [x] Natural Gas
- [ ] Fuel oil
- [ ] Kerosene
- [x] Electric
- [ ] Propane
- [ ] Solar
- [ ] Wood
- [ ] Coal
- [ ] Other

Domestic hot water tank fueled by:

Boiler/furnace located in:

- [ ] Basement
- [ ] Outdoors
- [x] Main Floor
- [ ] Other

Air Conditioning:

- [x] Central Air
- [ ] Window units
- [ ] Open Windows
- [ ] None

Are there air distribution ducts present? [x] 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.

Not visible

7. OCCUPANCY

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	NA
First Floor	Training facilities, classrooms, dormitories, TV room, kitchen, bathroom
Second Floor	NA
Third Floor	NA
Fourth Floor	NA

TurnKey Environmental Restoration, LLC

INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

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: Not yet in service (garage empty)

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? _____

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? Outside

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

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 Not yet installed

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? New building

r. Do any of the building occupants use solvents at work? ☒ yes ☐ no Likely use during bldg construction activities.

(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? Typical construction

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?

(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? system installed during construction

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) NA

a. Provide reasons why relocation is recommended:

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

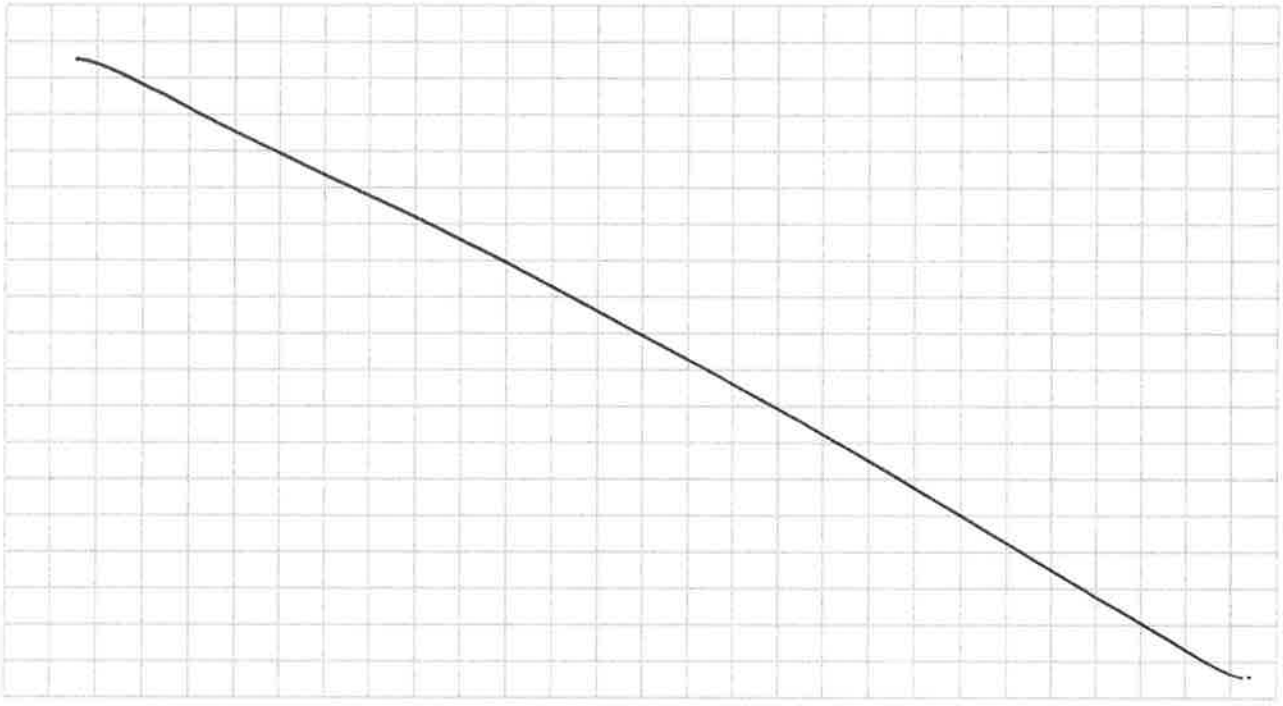
c. Responsibility for costs associated with reimbursement explained? ☐ yes ☐ no

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.

Basement:



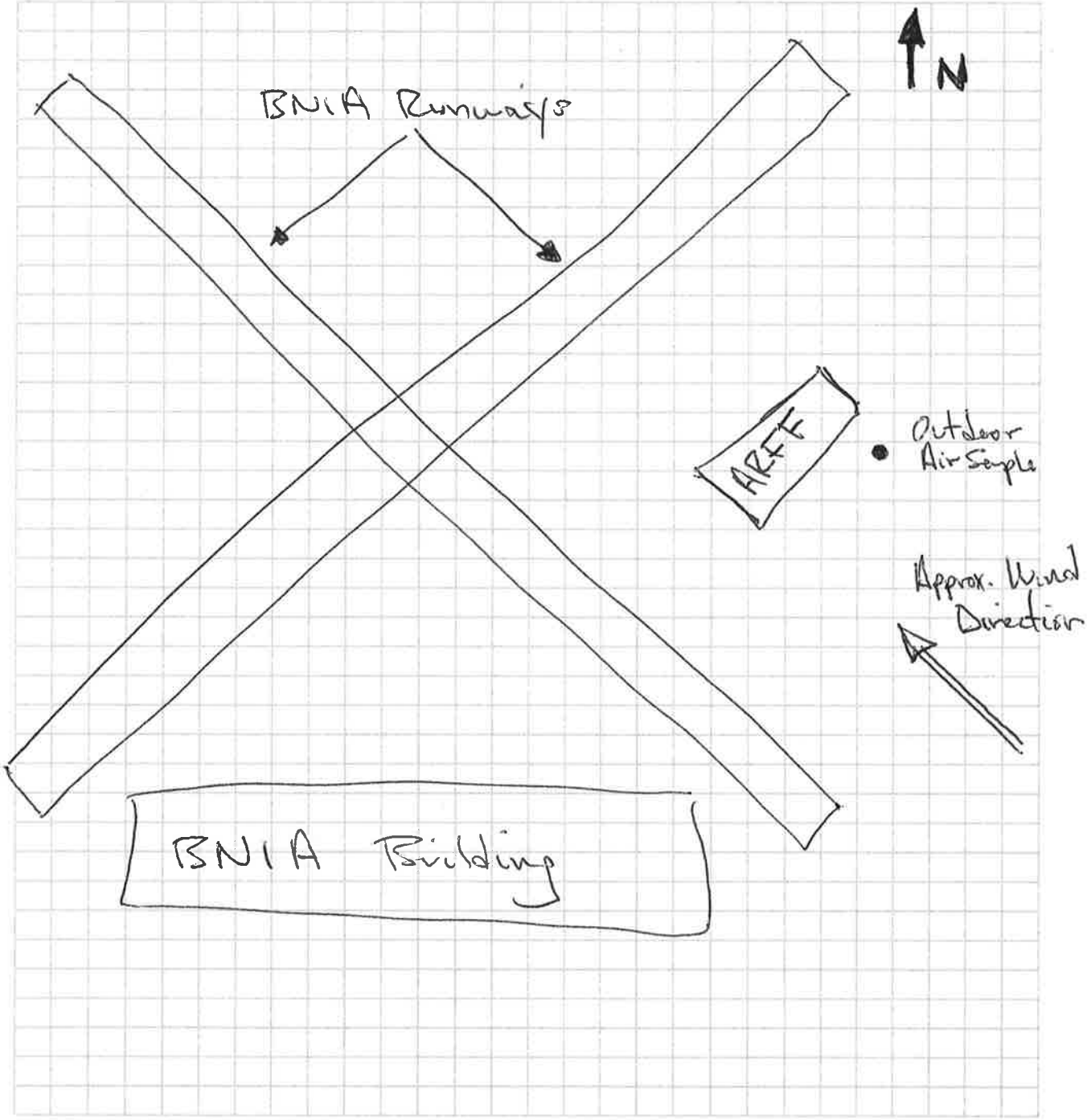
First Floor:

See SVI Report Figure

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s), and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and spetic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



TurnKey Environmental Restoration, LLC

INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MiniRAE 3000

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

Location	Product Description	Size (units)	Condition 1	Chemical Ingredients	Field Instrument Reading (units)	Photo (Y/N)
Training Room	Adhesive	1 gal	U	Graphite + titanium oxide	0 ppm	Y
	Carpet Tile	box	U		0 ppm	Y
	Base boarder	box	U		0 ppm	Y
No products present in other sampling areas.						

Notes:

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

ATTACHMENT 2

ANALYTICAL DATA PACKAGE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-38558-1
Client Project/Site: Benchmark - Buffalo Niagara Airport site
Revision: 1

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron

Authorized for release by:
5/23/2017 9:11:29 AM

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Job ID: 200-38558-1

Laboratory: TestAmerica Burlington

Narrative

Job Narrative
200-38558-1

Comments
This report has been revised to correct the format of the results.

Receipt
The samples were received on 5/12/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air Toxics
Method(s) TO-15: The laboratory control sample (LCS) for 116683 recovered outside control limits for the following analytes: 1,4-Dioxane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional 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: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: SS-1 — Lab Sample ID: 200-38558-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.41	J	1.0	0.29	ppb v/v	5		TO-15	Total/NA
1,2-Dichlorobenzene	0.56	J	1.0	0.23	ppb v/v	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.22	J	1.0	0.20	ppb v/v	5		TO-15	Total/NA
1,3-Butadiene	1.1		1.0	0.19	ppb v/v	5		TO-15	Total/NA
1,4-Dioxane	5.0	J	25	3.8	ppb v/v	5		TO-15	Total/NA
Acetone	66		25	6.5	ppb v/v	5		TO-15	Total/NA
Benzene	3.0		1.0	0.14	ppb v/v	5		TO-15	Total/NA
Carbon disulfide	1.2	J	2.5	0.14	ppb v/v	5		TO-15	Total/NA
Cyclohexane	94		1.0	0.23	ppb v/v	5		TO-15	Total/NA
Dichlorodifluoromethane	0.48	J	2.5	0.24	ppb v/v	5		TO-15	Total/NA
Ethylbenzene	1.6		1.0	0.17	ppb v/v	5		TO-15	Total/NA
m,p-Xylene	5.7		2.5	0.39	ppb v/v	5		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	2.0	J	2.5	0.43	ppb v/v	5		TO-15	Total/NA
Methyl Ethyl Ketone	11		2.5	0.55	ppb v/v	5		TO-15	Total/NA
Methylene Chloride	1.2	J B	2.5	0.34	ppb v/v	5		TO-15	Total/NA
n-Heptane	70		1.0	0.34	ppb v/v	5		TO-15	Total/NA
n-Hexane	110		1.0	0.23	ppb v/v	5		TO-15	Total/NA
Styrene	0.27	J	1.0	0.18	ppb v/v	5		TO-15	Total/NA
Toluene	5.2		1.0	0.18	ppb v/v	5		TO-15	Total/NA
Trichloroethene	0.15	J	1.0	0.046	ppb v/v	5		TO-15	Total/NA
Xylene (total)	7.3		3.5	0.20	ppb v/v	5		TO-15	Total/NA
Xylene, o-	1.6		1.0	0.20	ppb v/v	5		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.0	J	4.9	1.4	ug/m3	5		TO-15	Total/NA
1,2-Dichlorobenzene	3.4	J	6.0	1.4	ug/m3	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.1	J	4.9	0.98	ug/m3	5		TO-15	Total/NA
1,3-Butadiene	2.4		2.2	0.41	ug/m3	5		TO-15	Total/NA
1,4-Dioxane	18	J	90	14	ug/m3	5		TO-15	Total/NA
Acetone	160		59	15	ug/m3	5		TO-15	Total/NA
Benzene	9.7		3.2	0.45	ug/m3	5		TO-15	Total/NA
Carbon disulfide	3.6	J	7.8	0.44	ug/m3	5		TO-15	Total/NA
Cyclohexane	320		3.4	0.77	ug/m3	5		TO-15	Total/NA
Dichlorodifluoromethane	2.4	J	12	1.2	ug/m3	5		TO-15	Total/NA
Ethylbenzene	7.2		4.3	0.74	ug/m3	5		TO-15	Total/NA
m,p-Xylene	25		11	1.7	ug/m3	5		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	8.2	J	10	1.8	ug/m3	5		TO-15	Total/NA
Methyl Ethyl Ketone	32		7.4	1.6	ug/m3	5		TO-15	Total/NA
Methylene Chloride	4.2	J B	8.7	1.2	ug/m3	5		TO-15	Total/NA
n-Heptane	290		4.1	1.4	ug/m3	5		TO-15	Total/NA
n-Hexane	380		3.5	0.81	ug/m3	5		TO-15	Total/NA
Styrene	1.2	J	4.3	0.75	ug/m3	5		TO-15	Total/NA
Toluene	19		3.8	0.66	ug/m3	5		TO-15	Total/NA
Trichloroethene	0.83	J	5.4	0.24	ug/m3	5		TO-15	Total/NA
Xylene (total)	32		15	0.87	ug/m3	5		TO-15	Total/NA
Xylene, o-	7.0		4.3	0.87	ug/m3	5		TO-15	Total/NA

Client Sample ID: IA-1 — Lab Sample ID: 200-38558-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5		5.0	1.3	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: IA-1 (Continued)

Lab Sample ID: 200-38558-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.076	J	0.20	0.028	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.095	J	0.20	0.045	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.85		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Freon TF	0.077	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.78	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	2.8		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.99		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.33	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.17	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.16	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
Styrene	0.13	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Toluene	0.60		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Xylene (total)	3.4		0.70	0.040	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.64		0.20	0.040	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		12	3.1	ug/m3	1		TO-15	Total/NA
Benzene	0.24	J	0.64	0.089	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.33	J	0.69	0.15	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.7		0.87	0.15	ug/m3	1		TO-15	Total/NA
Freon TF	0.59	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.9	J	12	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	12		2.2	0.33	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.9		1.5	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.1	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	0.70	J	0.82	0.28	ug/m3	1		TO-15	Total/NA
n-Hexane	0.55	J	0.70	0.16	ug/m3	1		TO-15	Total/NA
Styrene	0.57	J	0.85	0.15	ug/m3	1		TO-15	Total/NA
Toluene	2.3		0.75	0.13	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	15		3.0	0.17	ug/m3	1		TO-15	Total/NA
Xylene, o-	2.8		0.87	0.17	ug/m3	1		TO-15	Total/NA

Client Sample ID: SS-2

Lab Sample ID: 200-38558-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.17	J	0.40	0.11	ppb v/v	2		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	0.24	J	0.40	0.082	ppb v/v	2		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.13	J	0.40	0.080	ppb v/v	2		TO-15	Total/NA
Acetone	24		10	2.6	ppb v/v	2		TO-15	Total/NA
Benzene	4.4		0.40	0.056	ppb v/v	2		TO-15	Total/NA
Carbon disulfide	0.67	J	1.0	0.056	ppb v/v	2		TO-15	Total/NA
Carbon tetrachloride	0.089	J	0.40	0.022	ppb v/v	2		TO-15	Total/NA
Chloroform	0.41	B	0.40	0.050	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: SS-2 (Continued)

Lab Sample ID: 200-38558-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	55		0.40	0.090	ppb v/v	2		TO-15	Total/NA
Dichlorodifluoromethane	0.25	J	1.0	0.094	ppb v/v	2		TO-15	Total/NA
Ethylbenzene	1.6		0.40	0.068	ppb v/v	2		TO-15	Total/NA
Freon TF	0.075	J	0.40	0.054	ppb v/v	2		TO-15	Total/NA
Isopropyl alcohol	1.4	J	10	0.26	ppb v/v	2		TO-15	Total/NA
m,p-Xylene	6.1		1.0	0.15	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone	2.6		1.0	0.22	ppb v/v	2		TO-15	Total/NA
Methylene Chloride	1.2	B	1.0	0.14	ppb v/v	2		TO-15	Total/NA
n-Heptane	66		0.40	0.14	ppb v/v	2		TO-15	Total/NA
n-Hexane	48		0.40	0.092	ppb v/v	2		TO-15	Total/NA
Styrene	0.091	J	0.40	0.070	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene	0.061	J	0.40	0.020	ppb v/v	2		TO-15	Total/NA
Toluene	7.4		0.40	0.070	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane	0.25	J	0.40	0.062	ppb v/v	2		TO-15	Total/NA
Xylene (total)	7.5		1.4	0.080	ppb v/v	2		TO-15	Total/NA
Xylene, o-	1.4		0.40	0.080	ppb v/v	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.81	J	2.0	0.56	ug/m3	2		TO-15	Total/NA
1,2-Dichlorotetrafluoroethane	1.6	J	2.8	0.57	ug/m3	2		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.64	J	2.0	0.39	ug/m3	2		TO-15	Total/NA
Acetone	58		24	6.2	ug/m3	2		TO-15	Total/NA
Benzene	14		1.3	0.18	ug/m3	2		TO-15	Total/NA
Carbon disulfide	2.1	J	3.1	0.17	ug/m3	2		TO-15	Total/NA
Carbon tetrachloride	0.56	J	2.5	0.14	ug/m3	2		TO-15	Total/NA
Chloroform	2.0	B	2.0	0.24	ug/m3	2		TO-15	Total/NA
Cyclohexane	190		1.4	0.31	ug/m3	2		TO-15	Total/NA
Dichlorodifluoromethane	1.3	J	4.9	0.46	ug/m3	2		TO-15	Total/NA
Ethylbenzene	6.8		1.7	0.30	ug/m3	2		TO-15	Total/NA
Freon TF	0.57	J	3.1	0.41	ug/m3	2		TO-15	Total/NA
Isopropyl alcohol	3.5	J	25	0.64	ug/m3	2		TO-15	Total/NA
m,p-Xylene	26		4.3	0.67	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone	7.6		2.9	0.65	ug/m3	2		TO-15	Total/NA
Methylene Chloride	4.3	B	3.5	0.47	ug/m3	2		TO-15	Total/NA
n-Heptane	270		1.6	0.56	ug/m3	2		TO-15	Total/NA
n-Hexane	170		1.4	0.32	ug/m3	2		TO-15	Total/NA
Styrene	0.39	J	1.7	0.30	ug/m3	2		TO-15	Total/NA
Tetrachloroethene	0.41	J	2.7	0.13	ug/m3	2		TO-15	Total/NA
Toluene	28		1.5	0.26	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane	1.4	J	2.2	0.35	ug/m3	2		TO-15	Total/NA
Xylene (total)	33		6.1	0.35	ug/m3	2		TO-15	Total/NA
Xylene, o-	6.1		1.7	0.35	ug/m3	2		TO-15	Total/NA

Client Sample ID: IA-2

Lab Sample ID: 200-38558-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.090	J	0.20	0.057	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.083	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Acetone	4.0	J	5.0	1.3	ppb v/v	1		TO-15	Total/NA
Benzene	0.068	J	0.20	0.028	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-2 (Continued)

Lab Sample ID: 200-38558-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.55		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.3		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Freon TF	0.078	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	4.5		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.79		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.33	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.10	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.099	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
Styrene	0.22		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Toluene	0.65		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Xylene (total)	5.5		0.70	0.040	ppb v/v	1		TO-15	Total/NA
Xylene, o-	1.0		0.20	0.040	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.44	J	0.98	0.28	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.41	J	0.98	0.20	ug/m3	1		TO-15	Total/NA
Acetone	9.5	J	12	3.1	ug/m3	1		TO-15	Total/NA
Benzene	0.22	J	0.64	0.089	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.6		0.87	0.15	ug/m3	1		TO-15	Total/NA
Freon TF	0.60	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
m,p-Xylene	20		2.2	0.33	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.3		1.5	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.2	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	0.41	J	0.82	0.28	ug/m3	1		TO-15	Total/NA
n-Hexane	0.35	J	0.70	0.16	ug/m3	1		TO-15	Total/NA
Styrene	0.92		0.85	0.15	ug/m3	1		TO-15	Total/NA
Toluene	2.4		0.75	0.13	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	24		3.0	0.17	ug/m3	1		TO-15	Total/NA
Xylene, o-	4.5		0.87	0.17	ug/m3	1		TO-15	Total/NA

Client Sample ID: SS-3

Lab Sample ID: 200-38558-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.12	J	0.40	0.11	ppb v/v	2		TO-15	Total/NA
1,3-Butadiene	1.5		0.40	0.074	ppb v/v	2		TO-15	Total/NA
2,2,4-Trimethylpentane	0.98		0.40	0.086	ppb v/v	2		TO-15	Total/NA
Acetone	42		10	2.6	ppb v/v	2		TO-15	Total/NA
Benzene	5.5		0.40	0.056	ppb v/v	2		TO-15	Total/NA
Carbon disulfide	1.3		1.0	0.056	ppb v/v	2		TO-15	Total/NA
Carbon tetrachloride	0.072	J	0.40	0.022	ppb v/v	2		TO-15	Total/NA
Chloromethane	0.63	J	1.0	0.32	ppb v/v	2		TO-15	Total/NA
Cyclohexane	52		0.40	0.090	ppb v/v	2		TO-15	Total/NA
Dichlorodifluoromethane	0.48	J	1.0	0.094	ppb v/v	2		TO-15	Total/NA
Ethylbenzene	1.6		0.40	0.068	ppb v/v	2		TO-15	Total/NA
Freon TF	0.082	J	0.40	0.054	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-3 (Continued)

Lab Sample ID: 200-38558-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	1.8	J	10	0.26	ppb v/v	2		TO-15	Total/NA
m,p-Xylene	5.6		1.0	0.15	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone	4.8		1.0	0.22	ppb v/v	2		TO-15	Total/NA
Methylene Chloride	0.61	J B	1.0	0.14	ppb v/v	2		TO-15	Total/NA
n-Heptane	41		0.40	0.14	ppb v/v	2		TO-15	Total/NA
n-Hexane	58		0.40	0.092	ppb v/v	2		TO-15	Total/NA
Styrene	0.15	J	0.40	0.070	ppb v/v	2		TO-15	Total/NA
tert-Butyl alcohol	4.2	J	10	3.4	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene	0.096	J	0.40	0.020	ppb v/v	2		TO-15	Total/NA
Tetrahydrofuran	4.6	J	10	2.4	ppb v/v	2		TO-15	Total/NA
Toluene	6.5		0.40	0.070	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane	0.22	J	0.40	0.062	ppb v/v	2		TO-15	Total/NA
Xylene (total)	6.7		1.4	0.080	ppb v/v	2		TO-15	Total/NA
Xylene, o-	1.1		0.40	0.080	ppb v/v	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.57	J	2.0	0.56	ug/m3	2		TO-15	Total/NA
1,3-Butadiene	3.3		0.88	0.16	ug/m3	2		TO-15	Total/NA
2,2,4-Trimethylpentane	4.6		1.9	0.40	ug/m3	2		TO-15	Total/NA
Acetone	100		24	6.2	ug/m3	2		TO-15	Total/NA
Benzene	17		1.3	0.18	ug/m3	2		TO-15	Total/NA
Carbon disulfide	4.2		3.1	0.17	ug/m3	2		TO-15	Total/NA
Carbon tetrachloride	0.45	J	2.5	0.14	ug/m3	2		TO-15	Total/NA
Chloromethane	1.3	J	2.1	0.66	ug/m3	2		TO-15	Total/NA
Cyclohexane	180		1.4	0.31	ug/m3	2		TO-15	Total/NA
Dichlorodifluoromethane	2.4	J	4.9	0.46	ug/m3	2		TO-15	Total/NA
Ethylbenzene	7.1		1.7	0.30	ug/m3	2		TO-15	Total/NA
Freon TF	0.63	J	3.1	0.41	ug/m3	2		TO-15	Total/NA
Isopropyl alcohol	4.4	J	25	0.64	ug/m3	2		TO-15	Total/NA
m,p-Xylene	24		4.3	0.67	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone	14		2.9	0.65	ug/m3	2		TO-15	Total/NA
Methylene Chloride	2.1	J B	3.5	0.47	ug/m3	2		TO-15	Total/NA
n-Heptane	170		1.6	0.56	ug/m3	2		TO-15	Total/NA
n-Hexane	200		1.4	0.32	ug/m3	2		TO-15	Total/NA
Styrene	0.63	J	1.7	0.30	ug/m3	2		TO-15	Total/NA
tert-Butyl alcohol	13	J	30	10	ug/m3	2		TO-15	Total/NA
Tetrachloroethene	0.65	J	2.7	0.13	ug/m3	2		TO-15	Total/NA
Tetrahydrofuran	14	J	29	7.1	ug/m3	2		TO-15	Total/NA
Toluene	24		1.5	0.26	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane	1.3	J	2.2	0.35	ug/m3	2		TO-15	Total/NA
Xylene (total)	29		6.1	0.35	ug/m3	2		TO-15	Total/NA
Xylene, o-	4.8		1.7	0.35	ug/m3	2		TO-15	Total/NA

Client Sample ID: IA-3

Lab Sample ID: 200-38558-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.079	J	0.20	0.057	ppb v/v	1		TO-15	Total/NA
Acetone	3.3	J	5.0	1.3	ppb v/v	1		TO-15	Total/NA
Benzene	0.069	J	0.20	0.028	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.076	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.61		0.50	0.16	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-3 (Continued)

Lab Sample ID: 200-38558-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.066	J	0.20	0.045	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.51		0.50	0.047	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.2		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Freon TF	0.081	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	4.0		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.26	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.11	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.087	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
Styrene	0.11	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Toluene	0.44		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Xylene (total)	4.9		0.70	0.040	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.91		0.20	0.040	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.39	J	0.98	0.28	ug/m3	1		TO-15	Total/NA
Acetone	7.9	J	12	3.1	ug/m3	1		TO-15	Total/NA
Benzene	0.22	J	0.64	0.089	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.48	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.23	J	0.69	0.15	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.5	0.23	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.1		0.87	0.15	ug/m3	1		TO-15	Total/NA
Freon TF	0.62	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
m,p-Xylene	17		2.2	0.33	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.91	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Heptane	0.43	J	0.82	0.28	ug/m3	1		TO-15	Total/NA
n-Hexane	0.31	J	0.70	0.16	ug/m3	1		TO-15	Total/NA
Styrene	0.45	J	0.85	0.15	ug/m3	1		TO-15	Total/NA
Toluene	1.7		0.75	0.13	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	21		3.0	0.17	ug/m3	1		TO-15	Total/NA
Xylene, o-	3.9		0.87	0.17	ug/m3	1		TO-15	Total/NA

Client Sample ID: OA-1

Lab Sample ID: 200-38558-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.058	J	0.20	0.028	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.55		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Freon TF	0.068	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.24	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
Toluene	0.054	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.031	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.19	J	0.64	0.089	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Freon TF	0.52	J	1.5	0.21	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: OA-1 (Continued)

Lab Sample ID: 200-38558-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.82	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
Toluene	0.20	J	0.75	0.13	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-1
Lab Sample ID: 200-38558-1
Date Collected: 05/11/17 15:19
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.13	ppb v/v			05/15/17 13:54	5
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ppb v/v			05/15/17 13:54	5
1,1,2-Trichloroethane	1.0	U	1.0	0.085	ppb v/v			05/15/17 13:54	5
1,1-Dichloroethane	1.0	U	1.0	0.085	ppb v/v			05/15/17 13:54	5
1,1-Dichloroethene	1.0	U	1.0	0.18	ppb v/v			05/15/17 13:54	5
1,2,4-Trichlorobenzene	2.5	U	2.5	0.95	ppb v/v			05/15/17 13:54	5
1,2,4-Trimethylbenzene	**0.41**	**J**	1.0	0.29	ppb v/v			05/15/17 13:54	5
1,2-Dibromoethane	1.0	U	1.0	0.12	ppb v/v			05/15/17 13:54	5
1,2-Dichlorobenzene	**0.56**	**J**	1.0	0.23	ppb v/v			05/15/17 13:54	5
1,2-Dichloroethane	1.0	U	1.0	0.17	ppb v/v			05/15/17 13:54	5
1,2-Dichloroethene, Total	2.0	U	2.0	0.15	ppb v/v			05/15/17 13:54	5
1,2-Dichloropropane	1.0	U	1.0	0.18	ppb v/v			05/15/17 13:54	5
1,2-Dichlorotetrafluoroethane	1.0	U	1.0	0.21	ppb v/v			05/15/17 13:54	5
1,3,5-Trimethylbenzene	**0.22**	**J**	1.0	0.20	ppb v/v			05/15/17 13:54	5
1,3-Butadiene	**1.1**		1.0	0.19	ppb v/v			05/15/17 13:54	5
1,3-Dichlorobenzene	1.0	U	1.0	0.25	ppb v/v			05/15/17 13:54	5
1,4-Dichlorobenzene	1.0	U	1.0	0.32	ppb v/v			05/15/17 13:54	5
1,4-Dioxane	**5.0**	**J**	25	3.8	ppb v/v			05/15/17 13:54	5
2,2,4-Trimethylpentane	1.0	U	1.0	0.22	ppb v/v			05/15/17 13:54	5
2-Chlorotoluene	1.0	U	1.0	0.18	ppb v/v			05/15/17 13:54	5
3-Chloropropene	2.5	U	2.5	0.32	ppb v/v			05/15/17 13:54	5
4-Ethyltoluene	1.0	U	1.0	0.20	ppb v/v			05/15/17 13:54	5
Acetone	**66**		25	6.5	ppb v/v			05/15/17 13:54	5
Benzene	**3.0**		1.0	0.14	ppb v/v			05/15/17 13:54	5
Bromodichloromethane	1.0	U	1.0	0.30	ppb v/v			05/15/17 13:54	5
Bromoethene(Vinyl Bromide)	1.0	U	1.0	0.11	ppb v/v			05/15/17 13:54	5
Bromoform	1.0	U	1.0	0.18	ppb v/v			05/15/17 13:54	5
Bromomethane	1.0	U	1.0	0.18	ppb v/v			05/15/17 13:54	5
Carbon disulfide	**1.2**	**J**	2.5	0.14	ppb v/v			05/15/17 13:54	5
Carbon tetrachloride	1.0	U	1.0	0.055	ppb v/v			05/15/17 13:54	5
Chlorobenzene	1.0	U	1.0	0.13	ppb v/v			05/15/17 13:54	5
Chloroethane	2.5	U	2.5	0.65	ppb v/v			05/15/17 13:54	5
Chloroform	1.0	U	1.0	0.13	ppb v/v			05/15/17 13:54	5
Chloromethane	2.5	U	2.5	0.80	ppb v/v			05/15/17 13:54	5
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ppb v/v			05/15/17 13:54	5
cis-1,3-Dichloropropene	1.0	U	1.0	0.18	ppb v/v			05/15/17 13:54	5
Cyclohexane	**94**		1.0	0.23	ppb v/v			05/15/17 13:54	5
Dibromochloromethane	1.0	U	1.0	0.085	ppb v/v			05/15/17 13:54	5
Dichlorodifluoromethane	**0.48**	**J**	2.5	0.24	ppb v/v			05/15/17 13:54	5
Ethylbenzene	**1.6**		1.0	0.17	ppb v/v			05/15/17 13:54	5
Freon TF	1.0	U	1.0	0.14	ppb v/v			05/15/17 13:54	5
Hexachlorobutadiene	1.0	U	1.0	0.32	ppb v/v			05/15/17 13:54	5
Isopropyl alcohol	25	U	25	0.65	ppb v/v			05/15/17 13:54	5
m,p-Xylene	**5.7**		2.5	0.39	ppb v/v			05/15/17 13:54	5
Methyl Butyl Ketone (2-Hexanone)	**2.0**	**J**	2.5	0.43	ppb v/v			05/15/17 13:54	5
Methyl Ethyl Ketone	**11**		2.5	0.55	ppb v/v			05/15/17 13:54	5
methyl isobutyl ketone	2.5	U	2.5	0.33	ppb v/v			05/15/17 13:54	5
Methyl tert-butyl ether	1.0	U	1.0	0.21	ppb v/v			05/15/17 13:54	5

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: SS-1
Date Collected: 05/11/17 15:19
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-1
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**1.2**	**J B**	2.5	0.34	ppb v/v			05/15/17 13:54	5
n-Heptane	**70**		1.0	0.34	ppb v/v			05/15/17 13:54	5
n-Hexane	**110**		1.0	0.23	ppb v/v			05/15/17 13:54	5
Styrene	**0.27**	**J**	1.0	0.18	ppb v/v			05/15/17 13:54	5
tert-Butyl alcohol	25	U	25	8.5	ppb v/v			05/15/17 13:54	5
Tetrachloroethene	1.0	U	1.0	0.049	ppb v/v			05/15/17 13:54	5
Tetrahydrofuran	25	U	25	6.0	ppb v/v			05/15/17 13:54	5
Toluene	**5.2**		1.0	0.18	ppb v/v			05/15/17 13:54	5
trans-1,2-Dichloroethene	1.0	U	1.0	0.25	ppb v/v			05/15/17 13:54	5
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ppb v/v			05/15/17 13:54	5
Trichloroethene	**0.15**	**J**	1.0	0.046	ppb v/v			05/15/17 13:54	5
Trichlorofluoromethane	1.0	U	1.0	0.16	ppb v/v			05/15/17 13:54	5
Vinyl chloride	1.0	U	1.0	0.090	ppb v/v			05/15/17 13:54	5
Xylene (total)	**7.3**		3.5	0.20	ppb v/v			05/15/17 13:54	5
Xylene, o-	**1.6**		1.0	0.20	ppb v/v			05/15/17 13:54	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.5	U	5.5	0.71	ug/m3			05/15/17 13:54	5
1,1,2,2-Tetrachloroethane	6.9	U	6.9	0.89	ug/m3			05/15/17 13:54	5
1,1,2-Trichloroethane	5.5	U	5.5	0.46	ug/m3			05/15/17 13:54	5
1,1-Dichloroethane	4.0	U	4.0	0.34	ug/m3			05/15/17 13:54	5
1,1-Dichloroethene	4.0	U	4.0	0.69	ug/m3			05/15/17 13:54	5
1,2,4-Trichlorobenzene	19	U	19	7.1	ug/m3			05/15/17 13:54	5
1,2,4-Trimethylbenzene	**2.0**	**J**	4.9	1.4	ug/m3			05/15/17 13:54	5
1,2-Dibromoethane	7.7	U	7.7	0.88	ug/m3			05/15/17 13:54	5
1,2-Dichlorobenzene	**3.4**	**J**	6.0	1.4	ug/m3			05/15/17 13:54	5
1,2-Dichloroethane	4.0	U	4.0	0.69	ug/m3			05/15/17 13:54	5
1,2-Dichloroethene, Total	7.9	U	7.9	0.57	ug/m3			05/15/17 13:54	5
1,2-Dichloropropane	4.6	U	4.6	0.81	ug/m3			05/15/17 13:54	5
1,2-Dichlorotetrafluoroethane	7.0	U	7.0	1.4	ug/m3			05/15/17 13:54	5
1,3,5-Trimethylbenzene	**1.1**	**J**	4.9	0.98	ug/m3			05/15/17 13:54	5
1,3-Butadiene	**2.4**		2.2	0.41	ug/m3			05/15/17 13:54	5
1,3-Dichlorobenzene	6.0	U	6.0	1.5	ug/m3			05/15/17 13:54	5
1,4-Dichlorobenzene	6.0	U	6.0	1.9	ug/m3			05/15/17 13:54	5
1,4-Dioxane	**18**	**J**	90	14	ug/m3			05/15/17 13:54	5
2,2,4-Trimethylpentane	4.7	U	4.7	1.0	ug/m3			05/15/17 13:54	5
2-Chlorotoluene	5.2	U	5.2	0.91	ug/m3			05/15/17 13:54	5
3-Chloropropene	7.8	U	7.8	0.99	ug/m3			05/15/17 13:54	5
4-Ethyltoluene	4.9	U	4.9	0.98	ug/m3			05/15/17 13:54	5
Acetone	**160**		59	15	ug/m3			05/15/17 13:54	5
Benzene	**9.7**		3.2	0.45	ug/m3			05/15/17 13:54	5
Bromodichloromethane	6.7	U	6.7	2.0	ug/m3			05/15/17 13:54	5
Bromoethene(Vinyl Bromide)	4.4	U	4.4	0.48	ug/m3			05/15/17 13:54	5
Bromoform	10	U	10	1.8	ug/m3			05/15/17 13:54	5
Bromomethane	3.9	U	3.9	0.70	ug/m3			05/15/17 13:54	5
Carbon disulfide	**3.6**	**J**	7.8	0.44	ug/m3			05/15/17 13:54	5
Carbon tetrachloride	6.3	U	6.3	0.35	ug/m3			05/15/17 13:54	5
Chlorobenzene	4.6	U	4.6	0.58	ug/m3			05/15/17 13:54	5
Chloroethane	6.6	U	6.6	1.7	ug/m3			05/15/17 13:54	5

Client Sample ID: SS-1
Lab Sample ID: 200-38558-1

Date Collected: 05/11/17 15:19
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	4.9	U	4.9	0.61	ug/m3			05/15/17 13:54	5
Chloromethane	5.2	U	5.2	1.7	ug/m3			05/15/17 13:54	5
cis-1,2-Dichloroethene	4.0	U	4.0	0.57	ug/m3			05/15/17 13:54	5
cis-1,3-Dichloropropene	4.5	U	4.5	0.82	ug/m3			05/15/17 13:54	5
Cyclohexane	**320**		3.4	0.77	ug/m3			05/15/17 13:54	5
Dibromochloromethane	8.5	U	8.5	0.72	ug/m3			05/15/17 13:54	5
Dichlorodifluoromethane	**2.4**	**J**	12	1.2	ug/m3			05/15/17 13:54	5
Ethylbenzene	**7.2**		4.3	0.74	ug/m3			05/15/17 13:54	5
Freon TF	7.7	U	7.7	1.0	ug/m3			05/15/17 13:54	5
Hexachlorobutadiene	11	U	11	3.4	ug/m3			05/15/17 13:54	5
Isopropyl alcohol	61	U	61	1.6	ug/m3			05/15/17 13:54	5
m,p-Xylene	**25**		11	1.7	ug/m3			05/15/17 13:54	5
Methyl Butyl Ketone (2-Hexanone)	**8.2**	**J**	10	1.8	ug/m3			05/15/17 13:54	5
Methyl Ethyl Ketone	**32**		7.4	1.6	ug/m3			05/15/17 13:54	5
methyl isobutyl ketone	10	U	10	1.3	ug/m3			05/15/17 13:54	5
Methyl tert-butyl ether	3.6	U	3.6	0.74	ug/m3			05/15/17 13:54	5
Methylene Chloride	**4.2**	**J B**	8.7	1.2	ug/m3			05/15/17 13:54	5
n-Heptane	**290**		4.1	1.4	ug/m3			05/15/17 13:54	5
n-Hexane	**380**		3.5	0.81	ug/m3			05/15/17 13:54	5
Styrene	**1.2**	**J**	4.3	0.75	ug/m3			05/15/17 13:54	5
tert-Butyl alcohol	76	U	76	26	ug/m3			05/15/17 13:54	5
Tetrachloroethene	6.8	U	6.8	0.33	ug/m3			05/15/17 13:54	5
Tetrahydrofuran	74	U	74	18	ug/m3			05/15/17 13:54	5
Toluene	**19**		3.8	0.66	ug/m3			05/15/17 13:54	5
trans-1,2-Dichloroethene	4.0	U	4.0	0.99	ug/m3			05/15/17 13:54	5
trans-1,3-Dichloropropene	4.5	U	4.5	0.86	ug/m3			05/15/17 13:54	5
Trichloroethene	**0.83**	**J**	5.4	0.24	ug/m3			05/15/17 13:54	5
Trichlorofluoromethane	5.6	U	5.6	0.87	ug/m3			05/15/17 13:54	5
Vinyl chloride	2.6	U	2.6	0.23	ug/m3			05/15/17 13:54	5
Xylene (total)	**32**		15	0.87	ug/m3			05/15/17 13:54	5
Xylene, o-	**7.0**		4.3	0.87	ug/m3			05/15/17 13:54	5

Client Sample ID: IA-1
Lab Sample ID: 200-38558-2

Date Collected: 05/11/17 15:19
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Method: 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	0.026	ppb v/v			05/13/17 05:26	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			05/13/17 05:26	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 05:26	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 05:26	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/13/17 05:26	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			05/13/17 05:26	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			05/13/17 05:26	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			05/13/17 05:26	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			05/13/17 05:26	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			05/13/17 05:26	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: IA-1
Date Collected: 05/11/17 15:19
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-2
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	0.40	U	0.40	0.029	ppb v/v			05/13/17 05:26	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			05/13/17 05:26	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			05/13/17 05:26	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			05/13/17 05:26	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			05/13/17 05:26	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			05/13/17 05:26	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			05/13/17 05:26	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			05/13/17 05:26	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			05/13/17 05:26	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			05/13/17 05:26	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			05/13/17 05:26	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			05/13/17 05:26	1
Acetone	**6.5**		5.0	1.3	ppb v/v			05/13/17 05:26	1
Benzene	**0.076**	**J**	0.20	0.028	ppb v/v			05/13/17 05:26	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			05/13/17 05:26	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			05/13/17 05:26	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			05/13/17 05:26	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			05/13/17 05:26	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			05/13/17 05:26	1
Carbon tetrachloride	**0.070**	**J**	0.20	0.011	ppb v/v			05/13/17 05:26	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			05/13/17 05:26	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			05/13/17 05:26	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			05/13/17 05:26	1
Chloromethane	**0.59**		0.50	0.16	ppb v/v			05/13/17 05:26	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			05/13/17 05:26	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			05/13/17 05:26	1
Cyclohexane	**0.095**	**J**	0.20	0.045	ppb v/v			05/13/17 05:26	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 05:26	1
Dichlorodifluoromethane	**0.49**	**J**	0.50	0.047	ppb v/v			05/13/17 05:26	1
Ethylbenzene	**0.85**		0.20	0.034	ppb v/v			05/13/17 05:26	1
Freon TF	**0.077**	**J**	0.20	0.027	ppb v/v			05/13/17 05:26	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			05/13/17 05:26	1
Isopropyl alcohol	**0.78**	**J**	5.0	0.13	ppb v/v			05/13/17 05:26	1
m,p-Xylene	**2.8**		0.50	0.077	ppb v/v			05/13/17 05:26	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			05/13/17 05:26	1
Methyl Ethyl Ketone	**0.99**		0.50	0.11	ppb v/v			05/13/17 05:26	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			05/13/17 05:26	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			05/13/17 05:26	1
Methylene Chloride	**0.33**	**J**	0.50	0.068	ppb v/v			05/13/17 05:26	1
n-Heptane	**0.17**	**J**	0.20	0.068	ppb v/v			05/13/17 05:26	1
n-Hexane	**0.16**	**J**	0.20	0.046	ppb v/v			05/13/17 05:26	1
Styrene	**0.13**	**J**	0.20	0.035	ppb v/v			05/13/17 05:26	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			05/13/17 05:26	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			05/13/17 05:26	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			05/13/17 05:26	1
Toluene	**0.60**		0.20	0.035	ppb v/v			05/13/17 05:26	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			05/13/17 05:26	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			05/13/17 05:26	1

Client Sample ID: IA-1
Lab Sample ID: 200-38558-2
Date Collected: 05/11/17 15:19
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			05/13/17 05:26	1
Trichlorofluoromethane	**0.21**		0.20	0.031	ppb v/v			05/13/17 05:26	1
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			05/13/17 05:26	1
Xylene (total)	**3.4**		0.70	0.040	ppb v/v			05/13/17 05:26	1
Xylene, o-	**0.64**		0.20	0.040	ppb v/v			05/13/17 05:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			05/13/17 05:26	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			05/13/17 05:26	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			05/13/17 05:26	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			05/13/17 05:26	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/13/17 05:26	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			05/13/17 05:26	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m3			05/13/17 05:26	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			05/13/17 05:26	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			05/13/17 05:26	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			05/13/17 05:26	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.11	ug/m3			05/13/17 05:26	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			05/13/17 05:26	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			05/13/17 05:26	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			05/13/17 05:26	1
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			05/13/17 05:26	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			05/13/17 05:26	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			05/13/17 05:26	1
1,4-Dioxane	18	U	18	2.7	ug/m3			05/13/17 05:26	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			05/13/17 05:26	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			05/13/17 05:26	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			05/13/17 05:26	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			05/13/17 05:26	1
Acetone	**15**		12	3.1	ug/m3			05/13/17 05:26	1
Benzene	**0.24**	**J**	0.64	0.089	ug/m3			05/13/17 05:26	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			05/13/17 05:26	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			05/13/17 05:26	1
Bromoform	2.1	U	2.1	0.36	ug/m3			05/13/17 05:26	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			05/13/17 05:26	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			05/13/17 05:26	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.069	ug/m3			05/13/17 05:26	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			05/13/17 05:26	1
Chloroethane	1.3	U	1.3	0.34	ug/m3			05/13/17 05:26	1
Chloroform	0.98	U	0.98	0.12	ug/m3			05/13/17 05:26	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			05/13/17 05:26	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			05/13/17 05:26	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			05/13/17 05:26	1
Cyclohexane	**0.33**	**J**	0.69	0.15	ug/m3			05/13/17 05:26	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			05/13/17 05:26	1
Dichlorodifluoromethane	**2.4**	**J**	2.5	0.23	ug/m3			05/13/17 05:26	1
Ethylbenzene	**3.7**		0.87	0.15	ug/m3			05/13/17 05:26	1
Freon TF	**0.59**	**J**	1.5	0.21	ug/m3			05/13/17 05:26	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			05/13/17 05:26	1

Client Sample ID: IA-1

Lab Sample ID: 200-38558-2

Date Collected: 05/11/17 15:19
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	**1.9**	**J**	12	0.32	ug/m3			05/13/17 05:26	1
m,p-Xylene	**12**		2.2	0.33	ug/m3			05/13/17 05:26	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			05/13/17 05:26	1
Methyl Ethyl Ketone	**2.9**		1.5	0.32	ug/m3			05/13/17 05:26	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			05/13/17 05:26	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			05/13/17 05:26	1
Methylene Chloride	**1.1**	**J**	1.7	0.24	ug/m3			05/13/17 05:26	1
n-Heptane	**0.70**	**J**	0.82	0.28	ug/m3			05/13/17 05:26	1
n-Hexane	**0.55**	**J**	0.70	0.16	ug/m3			05/13/17 05:26	1
Styrene	**0.57**	**J**	0.85	0.15	ug/m3			05/13/17 05:26	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			05/13/17 05:26	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			05/13/17 05:26	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			05/13/17 05:26	1
Toluene	**2.3**		0.75	0.13	ug/m3			05/13/17 05:26	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			05/13/17 05:26	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			05/13/17 05:26	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/13/17 05:26	1
Trichlorofluoromethane	**1.2**		1.1	0.17	ug/m3			05/13/17 05:26	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			05/13/17 05:26	1
Xylene (total)	**15**		3.0	0.17	ug/m3			05/13/17 05:26	1
Xylene, o-	**2.8**		0.87	0.17	ug/m3			05/13/17 05:26	1

Client Sample ID: SS-2

Lab Sample ID: 200-38558-3

Date Collected: 05/11/17 15:22
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	0.40	0.052	ppb v/v			05/16/17 07:22	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.052	ppb v/v			05/16/17 07:22	2
1,1,2-Trichloroethane	0.40	U	0.40	0.034	ppb v/v			05/16/17 07:22	2
1,1-Dichloroethane	0.40	U	0.40	0.034	ppb v/v			05/16/17 07:22	2
1,1-Dichloroethene	0.40	U	0.40	0.070	ppb v/v			05/16/17 07:22	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.38	ppb v/v			05/16/17 07:22	2
1,2,4-Trimethylbenzene	**0.17**	**J**	0.40	0.11	ppb v/v			05/16/17 07:22	2
1,2-Dibromoethane	0.40	U	0.40	0.046	ppb v/v			05/16/17 07:22	2
1,2-Dichlorobenzene	0.40	U	0.40	0.090	ppb v/v			05/16/17 07:22	2
1,2-Dichloroethane	0.40	U	0.40	0.068	ppb v/v			05/16/17 07:22	2
1,2-Dichloroethene, Total	0.80	U	0.80	0.058	ppb v/v			05/16/17 07:22	2
1,2-Dichloropropane	0.40	U	0.40	0.070	ppb v/v			05/16/17 07:22	2
1,2-Dichlorotetrafluoroethane	**0.24**	**J**	0.40	0.082	ppb v/v			05/16/17 07:22	2
1,3,5-Trimethylbenzene	**0.13**	**J**	0.40	0.080	ppb v/v			05/16/17 07:22	2
1,3-Butadiene	0.40	U	0.40	0.074	ppb v/v			05/16/17 07:22	2
1,3-Dichlorobenzene	0.40	U	0.40	0.10	ppb v/v			05/16/17 07:22	2
1,4-Dichlorobenzene	0.40	U	0.40	0.13	ppb v/v			05/16/17 07:22	2
1,4-Dioxane	10	U *	10	1.5	ppb v/v			05/16/17 07:22	2
2,2,4-Trimethylpentane	0.40	U	0.40	0.086	ppb v/v			05/16/17 07:22	2
2-Chlorotoluene	0.40	U	0.40	0.070	ppb v/v			05/16/17 07:22	2

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: SS-2
Date Collected: 05/11/17 15:22
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-3
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Chloropropene	1.0	U	1.0	0.13	ppb v/v			05/16/17 07:22	2
4-Ethyltoluene	0.40	U	0.40	0.080	ppb v/v			05/16/17 07:22	2
Acetone	**24**		10	2.6	ppb v/v			05/16/17 07:22	2
Benzene	**4.4**		0.40	0.056	ppb v/v			05/16/17 07:22	2
Bromodichloromethane	0.40	U	0.40	0.12	ppb v/v			05/16/17 07:22	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.044	ppb v/v			05/16/17 07:22	2
Bromoform	0.40	U	0.40	0.070	ppb v/v			05/16/17 07:22	2
Bromomethane	0.40	U	0.40	0.072	ppb v/v			05/16/17 07:22	2
Carbon disulfide	**0.67**	**J**	1.0	0.056	ppb v/v			05/16/17 07:22	2
Carbon tetrachloride	**0.089**	**J**	0.40	0.022	ppb v/v			05/16/17 07:22	2
Chlorobenzene	0.40	U	0.40	0.050	ppb v/v			05/16/17 07:22	2
Chloroethane	1.0	U	1.0	0.26	ppb v/v			05/16/17 07:22	2
Chloroform	**0.41**	**B**	0.40	0.050	ppb v/v			05/16/17 07:22	2
Chloromethane	1.0	U	1.0	0.32	ppb v/v			05/16/17 07:22	2
cis-1,2-Dichloroethene	0.40	U	0.40	0.058	ppb v/v			05/16/17 07:22	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.072	ppb v/v			05/16/17 07:22	2
Cyclohexane	**55**		0.40	0.090	ppb v/v			05/16/17 07:22	2
Dibromochloromethane	0.40	U	0.40	0.034	ppb v/v			05/16/17 07:22	2
Dichlorodifluoromethane	**0.25**	**J**	1.0	0.094	ppb v/v			05/16/17 07:22	2
Ethylbenzene	**1.6**		0.40	0.068	ppb v/v			05/16/17 07:22	2
Freon TF	**0.075**	**J**	0.40	0.054	ppb v/v			05/16/17 07:22	2
Hexachlorobutadiene	0.40	U	0.40	0.13	ppb v/v			05/16/17 07:22	2
Isopropyl alcohol	**1.4**	**J**	10	0.26	ppb v/v			05/16/17 07:22	2
m,p-Xylene	**6.1**		1.0	0.15	ppb v/v			05/16/17 07:22	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.17	ppb v/v			05/16/17 07:22	2
Methyl Ethyl Ketone	**2.6**		1.0	0.22	ppb v/v			05/16/17 07:22	2
methyl isobutyl ketone	1.0	U	1.0	0.13	ppb v/v			05/16/17 07:22	2
Methyl tert-butyl ether	0.40	U	0.40	0.082	ppb v/v			05/16/17 07:22	2
Methylene Chloride	**1.2**	**B**	1.0	0.14	ppb v/v			05/16/17 07:22	2
n-Heptane	**66**		0.40	0.14	ppb v/v			05/16/17 07:22	2
n-Hexane	**48**		0.40	0.092	ppb v/v			05/16/17 07:22	2
Styrene	**0.091**	**J**	0.40	0.070	ppb v/v			05/16/17 07:22	2
tert-Butyl alcohol	10	U	10	3.4	ppb v/v			05/16/17 07:22	2
Tetrachloroethene	**0.061**	**J**	0.40	0.020	ppb v/v			05/16/17 07:22	2
Tetrahydrofuran	10	U	10	2.4	ppb v/v			05/16/17 07:22	2
Toluene	**7.4**		0.40	0.070	ppb v/v			05/16/17 07:22	2
trans-1,2-Dichloroethene	0.40	U	0.40	0.10	ppb v/v			05/16/17 07:22	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.076	ppb v/v			05/16/17 07:22	2
Trichloroethene	0.40	U	0.40	0.018	ppb v/v			05/16/17 07:22	2
Trichlorofluoromethane	**0.25**	**J**	0.40	0.062	ppb v/v			05/16/17 07:22	2
Vinyl chloride	0.40	U	0.40	0.036	ppb v/v			05/16/17 07:22	2
Xylene (total)	**7.5**		1.4	0.080	ppb v/v			05/16/17 07:22	2
Xylene, o-	**1.4**		0.40	0.080	ppb v/v			05/16/17 07:22	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.2	U	2.2	0.28	ug/m3			05/16/17 07:22	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	0.36	ug/m3			05/16/17 07:22	2
1,1,2-Trichloroethane	2.2	U	2.2	0.19	ug/m3			05/16/17 07:22	2
1,1-Dichloroethane	1.6	U	1.6	0.14	ug/m3			05/16/17 07:22	2

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: SS-2
Date Collected: 05/11/17 15:22
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-3
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.6	U	1.6	0.28	ug/m3			05/16/17 07:22	2
1,2,4-Trichlorobenzene	7.4	U	7.4	2.8	ug/m3			05/16/17 07:22	2
1,2,4-Trimethylbenzene	**0.81**	**J**	2.0	0.56	ug/m3			05/16/17 07:22	2
1,2-Dibromoethane	3.1	U	3.1	0.35	ug/m3			05/16/17 07:22	2
1,2-Dichlorobenzene	2.4	U	2.4	0.54	ug/m3			05/16/17 07:22	2
1,2-Dichloroethane	1.6	U	1.6	0.28	ug/m3			05/16/17 07:22	2
1,2-Dichloroethene, Total	3.2	U	3.2	0.23	ug/m3			05/16/17 07:22	2
1,2-Dichloropropane	1.8	U	1.8	0.32	ug/m3			05/16/17 07:22	2
1,2-Dichlorotetrafluoroethane	**1.6**	**J**	2.8	0.57	ug/m3			05/16/17 07:22	2
1,3,5-Trimethylbenzene	**0.64**	**J**	2.0	0.39	ug/m3			05/16/17 07:22	2
1,3-Butadiene	0.88	U	0.88	0.16	ug/m3			05/16/17 07:22	2
1,3-Dichlorobenzene	2.4	U	2.4	0.60	ug/m3			05/16/17 07:22	2
1,4-Dichlorobenzene	2.4	U	2.4	0.76	ug/m3			05/16/17 07:22	2
1,4-Dioxane	36	U *	36	5.5	ug/m3			05/16/17 07:22	2
2,2,4-Trimethylpentane	1.9	U	1.9	0.40	ug/m3			05/16/17 07:22	2
2-Chlorotoluene	2.1	U	2.1	0.36	ug/m3			05/16/17 07:22	2
3-Chloropropene	3.1	U	3.1	0.39	ug/m3			05/16/17 07:22	2
4-Ethyltoluene	2.0	U	2.0	0.39	ug/m3			05/16/17 07:22	2
Acetone	**58**		24	6.2	ug/m3			05/16/17 07:22	2
Benzene	**14**		1.3	0.18	ug/m3			05/16/17 07:22	2
Bromodichloromethane	2.7	U	2.7	0.79	ug/m3			05/16/17 07:22	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.19	ug/m3			05/16/17 07:22	2
Bromoform	4.1	U	4.1	0.72	ug/m3			05/16/17 07:22	2
Bromomethane	1.6	U	1.6	0.28	ug/m3			05/16/17 07:22	2
Carbon disulfide	**2.1**	**J**	3.1	0.17	ug/m3			05/16/17 07:22	2
Carbon tetrachloride	**0.56**	**J**	2.5	0.14	ug/m3			05/16/17 07:22	2
Chlorobenzene	1.8	U	1.8	0.23	ug/m3			05/16/17 07:22	2
Chloroethane	2.6	U	2.6	0.69	ug/m3			05/16/17 07:22	2
Chloroform	**2.0**	**B**	2.0	0.24	ug/m3			05/16/17 07:22	2
Chloromethane	2.1	U	2.1	0.66	ug/m3			05/16/17 07:22	2
cis-1,2-Dichloroethene	1.6	U	1.6	0.23	ug/m3			05/16/17 07:22	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.33	ug/m3			05/16/17 07:22	2
Cyclohexane	**190**		1.4	0.31	ug/m3			05/16/17 07:22	2
Dibromochloromethane	3.4	U	3.4	0.29	ug/m3			05/16/17 07:22	2
Dichlorodifluoromethane	**1.3**	**J**	4.9	0.46	ug/m3			05/16/17 07:22	2
Ethylbenzene	**6.8**		1.7	0.30	ug/m3			05/16/17 07:22	2
Freon TF	**0.57**	**J**	3.1	0.41	ug/m3			05/16/17 07:22	2
Hexachlorobutadiene	4.3	U	4.3	1.4	ug/m3			05/16/17 07:22	2
Isopropyl alcohol	**3.5**	**J**	25	0.64	ug/m3			05/16/17 07:22	2
m,p-Xylene	**26**		4.3	0.67	ug/m3			05/16/17 07:22	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	0.70	ug/m3			05/16/17 07:22	2
Methyl Ethyl Ketone	**7.6**		2.9	0.65	ug/m3			05/16/17 07:22	2
methyl isobutyl ketone	4.1	U	4.1	0.53	ug/m3			05/16/17 07:22	2
Methyl tert-butyl ether	1.4	U	1.4	0.30	ug/m3			05/16/17 07:22	2
Methylene Chloride	**4.3**	**B**	3.5	0.47	ug/m3			05/16/17 07:22	2
n-Heptane	**270**		1.6	0.56	ug/m3			05/16/17 07:22	2
n-Hexane	**170**		1.4	0.32	ug/m3			05/16/17 07:22	2
Styrene	**0.39**	**J**	1.7	0.30	ug/m3			05/16/17 07:22	2

Client Sample ID: SS-2
Lab Sample ID: 200-38558-3

Date Collected: 05/11/17 15:22
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol	30	U	30	10	ug/m3			05/16/17 07:22	2
Tetrachloroethene	**0.41**	**J**	2.7	0.13	ug/m3			05/16/17 07:22	2
Tetrahydrofuran	29	U	29	7.1	ug/m3			05/16/17 07:22	2
Toluene	**28**		1.5	0.26	ug/m3			05/16/17 07:22	2
trans-1,2-Dichloroethene	1.6	U	1.6	0.40	ug/m3			05/16/17 07:22	2
trans-1,3-Dichloropropene	1.8	U	1.8	0.34	ug/m3			05/16/17 07:22	2
Trichloroethene	2.1	U	2.1	0.098	ug/m3			05/16/17 07:22	2
Trichlorofluoromethane	**1.4**	**J**	2.2	0.35	ug/m3			05/16/17 07:22	2
Vinyl chloride	1.0	U	1.0	0.092	ug/m3			05/16/17 07:22	2
Xylene (total)	**33**		6.1	0.35	ug/m3			05/16/17 07:22	2
Xylene, o-	**6.1**		1.7	0.35	ug/m3			05/16/17 07:22	2

Client Sample ID: IA-2
Lab Sample ID: 200-38558-4

Date Collected: 05/11/17 15:22
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Method: 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	0.026	ppb v/v			05/13/17 06:19	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			05/13/17 06:19	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 06:19	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 06:19	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/13/17 06:19	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			05/13/17 06:19	1
1,2,4-Trimethylbenzene	**0.090**	**J**	0.20	0.057	ppb v/v			05/13/17 06:19	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			05/13/17 06:19	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			05/13/17 06:19	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			05/13/17 06:19	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.029	ppb v/v			05/13/17 06:19	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			05/13/17 06:19	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			05/13/17 06:19	1
1,3,5-Trimethylbenzene	**0.083**	**J**	0.20	0.040	ppb v/v			05/13/17 06:19	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			05/13/17 06:19	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			05/13/17 06:19	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			05/13/17 06:19	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			05/13/17 06:19	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			05/13/17 06:19	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			05/13/17 06:19	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			05/13/17 06:19	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			05/13/17 06:19	1
Acetone	**4.0**	**J**	5.0	1.3	ppb v/v			05/13/17 06:19	1
Benzene	**0.068**	**J**	0.20	0.028	ppb v/v			05/13/17 06:19	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			05/13/17 06:19	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			05/13/17 06:19	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			05/13/17 06:19	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			05/13/17 06:19	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			05/13/17 06:19	1
Carbon tetrachloride	**0.069**	**J**	0.20	0.011	ppb v/v			05/13/17 06:19	1

Client Sample ID: IA-2
Lab Sample ID: 200-38558-4
Date Collected: 05/11/17 15:22
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			05/13/17 06:19	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			05/13/17 06:19	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			05/13/17 06:19	1
Chloromethane	**0.55**		0.50	0.16	ppb v/v			05/13/17 06:19	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			05/13/17 06:19	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			05/13/17 06:19	1
Cyclohexane	0.20	U	0.20	0.045	ppb v/v			05/13/17 06:19	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 06:19	1
Dichlorodifluoromethane	**0.46**	**J**	0.50	0.047	ppb v/v			05/13/17 06:19	1
Ethylbenzene	**1.3**		0.20	0.034	ppb v/v			05/13/17 06:19	1
Freon TF	**0.078**	**J**	0.20	0.027	ppb v/v			05/13/17 06:19	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			05/13/17 06:19	1
Isopropyl alcohol	5.0	U	5.0	0.13	ppb v/v			05/13/17 06:19	1
m,p-Xylene	**4.5**		0.50	0.077	ppb v/v			05/13/17 06:19	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			05/13/17 06:19	1
Methyl Ethyl Ketone	**0.79**		0.50	0.11	ppb v/v			05/13/17 06:19	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			05/13/17 06:19	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			05/13/17 06:19	1
Methylene Chloride	**0.33**	**J**	0.50	0.068	ppb v/v			05/13/17 06:19	1
n-Heptane	**0.10**	**J**	0.20	0.068	ppb v/v			05/13/17 06:19	1
n-Hexane	**0.099**	**J**	0.20	0.046	ppb v/v			05/13/17 06:19	1
Styrene	**0.22**		0.20	0.035	ppb v/v			05/13/17 06:19	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			05/13/17 06:19	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			05/13/17 06:19	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			05/13/17 06:19	1
Toluene	**0.65**		0.20	0.035	ppb v/v			05/13/17 06:19	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			05/13/17 06:19	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			05/13/17 06:19	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			05/13/17 06:19	1
Trichlorofluoromethane	**0.21**		0.20	0.031	ppb v/v			05/13/17 06:19	1
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			05/13/17 06:19	1
Xylene (total)	**5.5**		0.70	0.040	ppb v/v			05/13/17 06:19	1
Xylene, o-	**1.0**		0.20	0.040	ppb v/v			05/13/17 06:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			05/13/17 06:19	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			05/13/17 06:19	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			05/13/17 06:19	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			05/13/17 06:19	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/13/17 06:19	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			05/13/17 06:19	1
1,2,4-Trimethylbenzene	**0.44**	**J**	0.98	0.28	ug/m3			05/13/17 06:19	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			05/13/17 06:19	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			05/13/17 06:19	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			05/13/17 06:19	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.11	ug/m3			05/13/17 06:19	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			05/13/17 06:19	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			05/13/17 06:19	1
1,3,5-Trimethylbenzene	**0.41**	**J**	0.98	0.20	ug/m3			05/13/17 06:19	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: IA-2
Date Collected: 05/11/17 15:22
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			05/13/17 06:19	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			05/13/17 06:19	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			05/13/17 06:19	1
1,4-Dioxane	18	U	18	2.7	ug/m3			05/13/17 06:19	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			05/13/17 06:19	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			05/13/17 06:19	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			05/13/17 06:19	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			05/13/17 06:19	1
Acetone	**9.5**	**J**	12	3.1	ug/m3			05/13/17 06:19	1
Benzene	**0.22**	**J**	0.64	0.089	ug/m3			05/13/17 06:19	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			05/13/17 06:19	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			05/13/17 06:19	1
Bromoform	2.1	U	2.1	0.36	ug/m3			05/13/17 06:19	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			05/13/17 06:19	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			05/13/17 06:19	1
Carbon tetrachloride	**0.44**	**J**	1.3	0.069	ug/m3			05/13/17 06:19	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			05/13/17 06:19	1
Chloroethane	1.3	U	1.3	0.34	ug/m3			05/13/17 06:19	1
Chloroform	0.98	U	0.98	0.12	ug/m3			05/13/17 06:19	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			05/13/17 06:19	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			05/13/17 06:19	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			05/13/17 06:19	1
Cyclohexane	0.69	U	0.69	0.15	ug/m3			05/13/17 06:19	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			05/13/17 06:19	1
Dichlorodifluoromethane	**2.3**	**J**	2.5	0.23	ug/m3			05/13/17 06:19	1
Ethylbenzene	**5.6**		0.87	0.15	ug/m3			05/13/17 06:19	1
Freon TF	**0.60**	**J**	1.5	0.21	ug/m3			05/13/17 06:19	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			05/13/17 06:19	1
Isopropyl alcohol	12	U	12	0.32	ug/m3			05/13/17 06:19	1
m,p-Xylene	**20**		2.2	0.33	ug/m3			05/13/17 06:19	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			05/13/17 06:19	1
Methyl Ethyl Ketone	**2.3**		1.5	0.32	ug/m3			05/13/17 06:19	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			05/13/17 06:19	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			05/13/17 06:19	1
Methylene Chloride	**1.2**	**J**	1.7	0.24	ug/m3			05/13/17 06:19	1
n-Heptane	**0.41**	**J**	0.82	0.28	ug/m3			05/13/17 06:19	1
n-Hexane	**0.35**	**J**	0.70	0.16	ug/m3			05/13/17 06:19	1
Styrene	**0.92**		0.85	0.15	ug/m3			05/13/17 06:19	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			05/13/17 06:19	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			05/13/17 06:19	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			05/13/17 06:19	1
Toluene	**2.4**		0.75	0.13	ug/m3			05/13/17 06:19	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			05/13/17 06:19	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			05/13/17 06:19	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/13/17 06:19	1
Trichlorofluoromethane	**1.2**		1.1	0.17	ug/m3			05/13/17 06:19	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			05/13/17 06:19	1
Xylene (total)	**24**		3.0	0.17	ug/m3			05/13/17 06:19	1

Client Sample ID: IA-2
Lab Sample ID: 200-38558-4

Date Collected: 05/11/17 15:22
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene, o-	**4.5**		0.87	0.17	ug/m3			05/13/17 06:19	1

Client Sample ID: SS-3
Lab Sample ID: 200-38558-5

Date Collected: 05/11/17 15:30
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	0.40	0.052	ppb v/v			05/15/17 15:39	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.052	ppb v/v			05/15/17 15:39	2
1,1,2-Trichloroethane	0.40	U	0.40	0.034	ppb v/v			05/15/17 15:39	2
1,1-Dichloroethane	0.40	U	0.40	0.034	ppb v/v			05/15/17 15:39	2
1,1-Dichloroethene	0.40	U	0.40	0.070	ppb v/v			05/15/17 15:39	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.38	ppb v/v			05/15/17 15:39	2
1,2,4-Trimethylbenzene	**0.12**	**J**	0.40	0.11	ppb v/v			05/15/17 15:39	2
1,2-Dibromoethane	0.40	U	0.40	0.046	ppb v/v			05/15/17 15:39	2
1,2-Dichlorobenzene	0.40	U	0.40	0.090	ppb v/v			05/15/17 15:39	2
1,2-Dichloroethane	0.40	U	0.40	0.068	ppb v/v			05/15/17 15:39	2
1,2-Dichloroethene, Total	0.80	U	0.80	0.058	ppb v/v			05/15/17 15:39	2
1,2-Dichloropropane	0.40	U	0.40	0.070	ppb v/v			05/15/17 15:39	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.082	ppb v/v			05/15/17 15:39	2
1,3,5-Trimethylbenzene	0.40	U	0.40	0.080	ppb v/v			05/15/17 15:39	2
1,3-Butadiene	**1.5**		0.40	0.074	ppb v/v			05/15/17 15:39	2
1,3-Dichlorobenzene	0.40	U	0.40	0.10	ppb v/v			05/15/17 15:39	2
1,4-Dichlorobenzene	0.40	U	0.40	0.13	ppb v/v			05/15/17 15:39	2
1,4-Dioxane	10	U	10	1.5	ppb v/v			05/15/17 15:39	2
2,2,4-Trimethylpentane	**0.98**		0.40	0.086	ppb v/v			05/15/17 15:39	2
2-Chlorotoluene	0.40	U	0.40	0.070	ppb v/v			05/15/17 15:39	2
3-Chloropropene	1.0	U	1.0	0.13	ppb v/v			05/15/17 15:39	2
4-Ethyltoluene	0.40	U	0.40	0.080	ppb v/v			05/15/17 15:39	2
Acetone	**42**		10	2.6	ppb v/v			05/15/17 15:39	2
Benzene	**5.5**		0.40	0.056	ppb v/v			05/15/17 15:39	2
Bromodichloromethane	0.40	U	0.40	0.12	ppb v/v			05/15/17 15:39	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.044	ppb v/v			05/15/17 15:39	2
Bromoform	0.40	U	0.40	0.070	ppb v/v			05/15/17 15:39	2
Bromomethane	0.40	U	0.40	0.072	ppb v/v			05/15/17 15:39	2
Carbon disulfide	**1.3**		1.0	0.056	ppb v/v			05/15/17 15:39	2
Carbon tetrachloride	**0.072**	**J**	0.40	0.022	ppb v/v			05/15/17 15:39	2
Chlorobenzene	0.40	U	0.40	0.050	ppb v/v			05/15/17 15:39	2
Chloroethane	1.0	U	1.0	0.26	ppb v/v			05/15/17 15:39	2
Chloroform	0.40	U	0.40	0.050	ppb v/v			05/15/17 15:39	2
Chloromethane	**0.63**	**J**	1.0	0.32	ppb v/v			05/15/17 15:39	2
cis-1,2-Dichloroethene	0.40	U	0.40	0.058	ppb v/v			05/15/17 15:39	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.072	ppb v/v			05/15/17 15:39	2
Cyclohexane	**52**		0.40	0.090	ppb v/v			05/15/17 15:39	2
Dibromochloromethane	0.40	U	0.40	0.034	ppb v/v			05/15/17 15:39	2
Dichlorodifluoromethane	**0.48**	**J**	1.0	0.094	ppb v/v			05/15/17 15:39	2
Ethylbenzene	**1.6**		0.40	0.068	ppb v/v			05/15/17 15:39	2

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: SS-3
Date Collected: 05/11/17 15:30
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-5
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Freon TF	**0.082**	**J**	0.40	0.054	ppb v/v			05/15/17 15:39	2
Hexachlorobutadiene	0.40	U	0.40	0.13	ppb v/v			05/15/17 15:39	2
Isopropyl alcohol	**1.8**	**J**	10	0.26	ppb v/v			05/15/17 15:39	2
m,p-Xylene	**5.6**		1.0	0.15	ppb v/v			05/15/17 15:39	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.17	ppb v/v			05/15/17 15:39	2
Methyl Ethyl Ketone	**4.8**		1.0	0.22	ppb v/v			05/15/17 15:39	2
methyl isobutyl ketone	1.0	U	1.0	0.13	ppb v/v			05/15/17 15:39	2
Methyl tert-butyl ether	0.40	U	0.40	0.082	ppb v/v			05/15/17 15:39	2
Methylene Chloride	**0.61**	**J B**	1.0	0.14	ppb v/v			05/15/17 15:39	2
n-Heptane	**41**		0.40	0.14	ppb v/v			05/15/17 15:39	2
n-Hexane	**58**		0.40	0.092	ppb v/v			05/15/17 15:39	2
Styrene	**0.15**	**J**	0.40	0.070	ppb v/v			05/15/17 15:39	2
tert-Butyl alcohol	**4.2**	**J**	10	3.4	ppb v/v			05/15/17 15:39	2
Tetrachloroethene	**0.096**	**J**	0.40	0.020	ppb v/v			05/15/17 15:39	2
Tetrahydrofuran	**4.6**	**J**	10	2.4	ppb v/v			05/15/17 15:39	2
Toluene	**6.5**		0.40	0.070	ppb v/v			05/15/17 15:39	2
trans-1,2-Dichloroethene	0.40	U	0.40	0.10	ppb v/v			05/15/17 15:39	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.076	ppb v/v			05/15/17 15:39	2
Trichloroethene	0.40	U	0.40	0.018	ppb v/v			05/15/17 15:39	2
Trichlorofluoromethane	**0.22**	**J**	0.40	0.062	ppb v/v			05/15/17 15:39	2
Vinyl chloride	0.40	U	0.40	0.036	ppb v/v			05/15/17 15:39	2
Xylene (total)	**6.7**		1.4	0.080	ppb v/v			05/15/17 15:39	2
Xylene, o-	**1.1**		0.40	0.080	ppb v/v			05/15/17 15:39	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.2	U	2.2	0.28	ug/m3			05/15/17 15:39	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	0.36	ug/m3			05/15/17 15:39	2
1,1,2-Trichloroethane	2.2	U	2.2	0.19	ug/m3			05/15/17 15:39	2
1,1-Dichloroethane	1.6	U	1.6	0.14	ug/m3			05/15/17 15:39	2
1,1-Dichloroethene	1.6	U	1.6	0.28	ug/m3			05/15/17 15:39	2
1,2,4-Trichlorobenzene	7.4	U	7.4	2.8	ug/m3			05/15/17 15:39	2
1,2,4-Trimethylbenzene	**0.57**	**J**	2.0	0.56	ug/m3			05/15/17 15:39	2
1,2-Dibromoethane	3.1	U	3.1	0.35	ug/m3			05/15/17 15:39	2
1,2-Dichlorobenzene	2.4	U	2.4	0.54	ug/m3			05/15/17 15:39	2
1,2-Dichloroethane	1.6	U	1.6	0.28	ug/m3			05/15/17 15:39	2
1,2-Dichloroethene, Total	3.2	U	3.2	0.23	ug/m3			05/15/17 15:39	2
1,2-Dichloropropane	1.8	U	1.8	0.32	ug/m3			05/15/17 15:39	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.57	ug/m3			05/15/17 15:39	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.39	ug/m3			05/15/17 15:39	2
1,3-Butadiene	**3.3**		0.88	0.16	ug/m3			05/15/17 15:39	2
1,3-Dichlorobenzene	2.4	U	2.4	0.60	ug/m3			05/15/17 15:39	2
1,4-Dichlorobenzene	2.4	U	2.4	0.76	ug/m3			05/15/17 15:39	2
1,4-Dioxane	36	U	36	5.5	ug/m3			05/15/17 15:39	2
2,2,4-Trimethylpentane	**4.6**		1.9	0.40	ug/m3			05/15/17 15:39	2
2-Chlorotoluene	2.1	U	2.1	0.36	ug/m3			05/15/17 15:39	2
3-Chloropropene	3.1	U	3.1	0.39	ug/m3			05/15/17 15:39	2
4-Ethyltoluene	2.0	U	2.0	0.39	ug/m3			05/15/17 15:39	2
Acetone	**100**		24	6.2	ug/m3			05/15/17 15:39	2
Benzene	**17**		1.3	0.18	ug/m3			05/15/17 15:39	2

Client Sample ID: SS-3 — **Lab Sample ID: 200-38558-5**
Date Collected: 05/11/17 15:30 — **Matrix: Air**
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	2.7	U	2.7	0.79	ug/m3			05/15/17 15:39	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.19	ug/m3			05/15/17 15:39	2
Bromoform	4.1	U	4.1	0.72	ug/m3			05/15/17 15:39	2
Bromomethane	1.6	U	1.6	0.28	ug/m3			05/15/17 15:39	2
Carbon disulfide	**4.2**		3.1	0.17	ug/m3			05/15/17 15:39	2
Carbon tetrachloride	**0.45**	**J**	2.5	0.14	ug/m3			05/15/17 15:39	2
Chlorobenzene	1.8	U	1.8	0.23	ug/m3			05/15/17 15:39	2
Chloroethane	2.6	U	2.6	0.69	ug/m3			05/15/17 15:39	2
Chloroform	2.0	U	2.0	0.24	ug/m3			05/15/17 15:39	2
Chloromethane	**1.3**	**J**	2.1	0.66	ug/m3			05/15/17 15:39	2
cis-1,2-Dichloroethene	1.6	U	1.6	0.23	ug/m3			05/15/17 15:39	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.33	ug/m3			05/15/17 15:39	2
Cyclohexane	**180**		1.4	0.31	ug/m3			05/15/17 15:39	2
Dibromochloromethane	3.4	U	3.4	0.29	ug/m3			05/15/17 15:39	2
Dichlorodifluoromethane	**2.4**	**J**	4.9	0.46	ug/m3			05/15/17 15:39	2
Ethylbenzene	**7.1**		1.7	0.30	ug/m3			05/15/17 15:39	2
Freon TF	**0.63**	**J**	3.1	0.41	ug/m3			05/15/17 15:39	2
Hexachlorobutadiene	4.3	U	4.3	1.4	ug/m3			05/15/17 15:39	2
Isopropyl alcohol	**4.4**	**J**	25	0.64	ug/m3			05/15/17 15:39	2
m,p-Xylene	**24**		4.3	0.67	ug/m3			05/15/17 15:39	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	0.70	ug/m3			05/15/17 15:39	2
Methyl Ethyl Ketone	**14**		2.9	0.65	ug/m3			05/15/17 15:39	2
methyl isobutyl ketone	4.1	U	4.1	0.53	ug/m3			05/15/17 15:39	2
Methyl tert-butyl ether	1.4	U	1.4	0.30	ug/m3			05/15/17 15:39	2
Methylene Chloride	**2.1**	**J B**	3.5	0.47	ug/m3			05/15/17 15:39	2
n-Heptane	**170**		1.6	0.56	ug/m3			05/15/17 15:39	2
n-Hexane	**200**		1.4	0.32	ug/m3			05/15/17 15:39	2
Styrene	**0.63**	**J**	1.7	0.30	ug/m3			05/15/17 15:39	2
tert-Butyl alcohol	**13**	**J**	30	10	ug/m3			05/15/17 15:39	2
Tetrachloroethene	**0.65**	**J**	2.7	0.13	ug/m3			05/15/17 15:39	2
Tetrahydrofuran	**14**	**J**	29	7.1	ug/m3			05/15/17 15:39	2
Toluene	**24**		1.5	0.26	ug/m3			05/15/17 15:39	2
trans-1,2-Dichloroethene	1.6	U	1.6	0.40	ug/m3			05/15/17 15:39	2
trans-1,3-Dichloropropene	1.8	U	1.8	0.34	ug/m3			05/15/17 15:39	2
Trichloroethene	2.1	U	2.1	0.098	ug/m3			05/15/17 15:39	2
Trichlorofluoromethane	**1.3**	**J**	2.2	0.35	ug/m3			05/15/17 15:39	2
Vinyl chloride	1.0	U	1.0	0.092	ug/m3			05/15/17 15:39	2
Xylene (total)	**29**		6.1	0.35	ug/m3			05/15/17 15:39	2
Xylene, o-	**4.8**		1.7	0.35	ug/m3			05/15/17 15:39	2

Client Sample ID: IA-3 — **Lab Sample ID: 200-38558-6**
Date Collected: 05/11/17 15:30 — **Matrix: Air**
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Method: 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	0.026	ppb v/v			05/13/17 07:11	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			05/13/17 07:11	1

Client Sample ID: IA-3
Lab Sample ID: 200-38558-6
Date Collected: 05/11/17 15:30
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 07:11	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 07:11	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/13/17 07:11	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			05/13/17 07:11	1
1,2,4-Trimethylbenzene	**0.079**	**J**	0.20	0.057	ppb v/v			05/13/17 07:11	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			05/13/17 07:11	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			05/13/17 07:11	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			05/13/17 07:11	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.029	ppb v/v			05/13/17 07:11	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			05/13/17 07:11	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			05/13/17 07:11	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			05/13/17 07:11	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			05/13/17 07:11	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			05/13/17 07:11	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			05/13/17 07:11	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			05/13/17 07:11	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			05/13/17 07:11	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			05/13/17 07:11	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			05/13/17 07:11	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			05/13/17 07:11	1
Acetone	**3.3**	**J**	5.0	1.3	ppb v/v			05/13/17 07:11	1
Benzene	**0.069**	**J**	0.20	0.028	ppb v/v			05/13/17 07:11	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			05/13/17 07:11	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			05/13/17 07:11	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			05/13/17 07:11	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			05/13/17 07:11	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			05/13/17 07:11	1
Carbon tetrachloride	**0.076**	**J**	0.20	0.011	ppb v/v			05/13/17 07:11	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			05/13/17 07:11	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			05/13/17 07:11	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			05/13/17 07:11	1
Chloromethane	**0.61**		0.50	0.16	ppb v/v			05/13/17 07:11	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			05/13/17 07:11	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			05/13/17 07:11	1
Cyclohexane	**0.066**	**J**	0.20	0.045	ppb v/v			05/13/17 07:11	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 07:11	1
Dichlorodifluoromethane	**0.51**		0.50	0.047	ppb v/v			05/13/17 07:11	1
Ethylbenzene	**1.2**		0.20	0.034	ppb v/v			05/13/17 07:11	1
Freon TF	**0.081**	**J**	0.20	0.027	ppb v/v			05/13/17 07:11	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			05/13/17 07:11	1
Isopropyl alcohol	5.0	U	5.0	0.13	ppb v/v			05/13/17 07:11	1
m,p-Xylene	**4.0**		0.50	0.077	ppb v/v			05/13/17 07:11	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			05/13/17 07:11	1
Methyl Ethyl Ketone	0.50	U	0.50	0.11	ppb v/v			05/13/17 07:11	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			05/13/17 07:11	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			05/13/17 07:11	1
Methylene Chloride	**0.26**	**J**	0.50	0.068	ppb v/v			05/13/17 07:11	1
n-Heptane	**0.11**	**J**	0.20	0.068	ppb v/v			05/13/17 07:11	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: IA-3
Date Collected: 05/11/17 15:30
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-6
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	**0.087**	**J**	0.20	0.046	ppb v/v			05/13/17 07:11	1
Styrene	**0.11**	**J**	0.20	0.035	ppb v/v			05/13/17 07:11	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			05/13/17 07:11	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			05/13/17 07:11	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			05/13/17 07:11	1
Toluene	**0.44**		0.20	0.035	ppb v/v			05/13/17 07:11	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			05/13/17 07:11	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			05/13/17 07:11	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			05/13/17 07:11	1
Trichlorofluoromethane	**0.22**		0.20	0.031	ppb v/v			05/13/17 07:11	1
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			05/13/17 07:11	1
Xylene (total)	**4.9**		0.70	0.040	ppb v/v			05/13/17 07:11	1
Xylene, o-	**0.91**		0.20	0.040	ppb v/v			05/13/17 07:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			05/13/17 07:11	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			05/13/17 07:11	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			05/13/17 07:11	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			05/13/17 07:11	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/13/17 07:11	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			05/13/17 07:11	1
1,2,4-Trimethylbenzene	**0.39**	**J**	0.98	0.28	ug/m3			05/13/17 07:11	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			05/13/17 07:11	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			05/13/17 07:11	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			05/13/17 07:11	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.11	ug/m3			05/13/17 07:11	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			05/13/17 07:11	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			05/13/17 07:11	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			05/13/17 07:11	1
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			05/13/17 07:11	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			05/13/17 07:11	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			05/13/17 07:11	1
1,4-Dioxane	18	U	18	2.7	ug/m3			05/13/17 07:11	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			05/13/17 07:11	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			05/13/17 07:11	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			05/13/17 07:11	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			05/13/17 07:11	1
Acetone	**7.9**	**J**	12	3.1	ug/m3			05/13/17 07:11	1
Benzene	**0.22**	**J**	0.64	0.089	ug/m3			05/13/17 07:11	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			05/13/17 07:11	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			05/13/17 07:11	1
Bromoform	2.1	U	2.1	0.36	ug/m3			05/13/17 07:11	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			05/13/17 07:11	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			05/13/17 07:11	1
Carbon tetrachloride	**0.48**	**J**	1.3	0.069	ug/m3			05/13/17 07:11	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			05/13/17 07:11	1
Chloroethane	1.3	U	1.3	0.34	ug/m3			05/13/17 07:11	1
Chloroform	0.98	U	0.98	0.12	ug/m3			05/13/17 07:11	1
Chloromethane	**1.3**		1.0	0.33	ug/m3			05/13/17 07:11	1

Client Sample ID: IA-3
Lab Sample ID: 200-38558-6

Date Collected: 05/11/17 15:30
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			05/13/17 07:11	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			05/13/17 07:11	1
Cyclohexane	**0.23**	**J**	0.69	0.15	ug/m3			05/13/17 07:11	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			05/13/17 07:11	1
Dichlorodifluoromethane	**2.5**		2.5	0.23	ug/m3			05/13/17 07:11	1
Ethylbenzene	**5.1**		0.87	0.15	ug/m3			05/13/17 07:11	1
Freon TF	**0.62**	**J**	1.5	0.21	ug/m3			05/13/17 07:11	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			05/13/17 07:11	1
Isopropyl alcohol	12	U	12	0.32	ug/m3			05/13/17 07:11	1
m,p-Xylene	**17**		2.2	0.33	ug/m3			05/13/17 07:11	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			05/13/17 07:11	1
Methyl Ethyl Ketone	1.5	U	1.5	0.32	ug/m3			05/13/17 07:11	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			05/13/17 07:11	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			05/13/17 07:11	1
Methylene Chloride	**0.91**	**J**	1.7	0.24	ug/m3			05/13/17 07:11	1
n-Heptane	**0.43**	**J**	0.82	0.28	ug/m3			05/13/17 07:11	1
n-Hexane	**0.31**	**J**	0.70	0.16	ug/m3			05/13/17 07:11	1
Styrene	**0.45**	**J**	0.85	0.15	ug/m3			05/13/17 07:11	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			05/13/17 07:11	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			05/13/17 07:11	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			05/13/17 07:11	1
Toluene	**1.7**		0.75	0.13	ug/m3			05/13/17 07:11	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			05/13/17 07:11	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			05/13/17 07:11	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/13/17 07:11	1
Trichlorofluoromethane	**1.2**		1.1	0.17	ug/m3			05/13/17 07:11	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			05/13/17 07:11	1
Xylene (total)	**21**		3.0	0.17	ug/m3			05/13/17 07:11	1
Xylene, o-	**3.9**		0.87	0.17	ug/m3			05/13/17 07:11	1

Client Sample ID: OA-1
Lab Sample ID: 200-38558-7

Date Collected: 05/11/17 15:25
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Method: 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	0.026	ppb v/v			05/13/17 08:04	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			05/13/17 08:04	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 08:04	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 08:04	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/13/17 08:04	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			05/13/17 08:04	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			05/13/17 08:04	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			05/13/17 08:04	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			05/13/17 08:04	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			05/13/17 08:04	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.029	ppb v/v			05/13/17 08:04	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			05/13/17 08:04	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: OA-1
Date Collected: 05/11/17 15:25
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-7
Matrix: Air

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			05/13/17 08:04	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			05/13/17 08:04	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			05/13/17 08:04	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			05/13/17 08:04	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			05/13/17 08:04	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			05/13/17 08:04	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			05/13/17 08:04	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			05/13/17 08:04	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			05/13/17 08:04	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			05/13/17 08:04	1
Acetone	5.0	U	5.0	1.3	ppb v/v			05/13/17 08:04	1
Benzene	**0.058**	**J**	0.20	0.028	ppb v/v			05/13/17 08:04	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			05/13/17 08:04	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			05/13/17 08:04	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			05/13/17 08:04	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			05/13/17 08:04	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			05/13/17 08:04	1
Carbon tetrachloride	**0.067**	**J**	0.20	0.011	ppb v/v			05/13/17 08:04	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			05/13/17 08:04	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			05/13/17 08:04	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			05/13/17 08:04	1
Chloromethane	**0.55**		0.50	0.16	ppb v/v			05/13/17 08:04	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			05/13/17 08:04	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			05/13/17 08:04	1
Cyclohexane	0.20	U	0.20	0.045	ppb v/v			05/13/17 08:04	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			05/13/17 08:04	1
Dichlorodifluoromethane	**0.46**	**J**	0.50	0.047	ppb v/v			05/13/17 08:04	1
Ethylbenzene	0.20	U	0.20	0.034	ppb v/v			05/13/17 08:04	1
Freon TF	**0.068**	**J**	0.20	0.027	ppb v/v			05/13/17 08:04	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			05/13/17 08:04	1
Isopropyl alcohol	5.0	U	5.0	0.13	ppb v/v			05/13/17 08:04	1
m,p-Xylene	0.50	U	0.50	0.077	ppb v/v			05/13/17 08:04	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			05/13/17 08:04	1
Methyl Ethyl Ketone	0.50	U	0.50	0.11	ppb v/v			05/13/17 08:04	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			05/13/17 08:04	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			05/13/17 08:04	1
Methylene Chloride	**0.24**	**J**	0.50	0.068	ppb v/v			05/13/17 08:04	1
n-Heptane	0.20	U	0.20	0.068	ppb v/v			05/13/17 08:04	1
n-Hexane	0.20	U	0.20	0.046	ppb v/v			05/13/17 08:04	1
Styrene	0.20	U	0.20	0.035	ppb v/v			05/13/17 08:04	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			05/13/17 08:04	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			05/13/17 08:04	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			05/13/17 08:04	1
Toluene	**0.054**	**J**	0.20	0.035	ppb v/v			05/13/17 08:04	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			05/13/17 08:04	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			05/13/17 08:04	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			05/13/17 08:04	1
Trichlorofluoromethane	**0.21**		0.20	0.031	ppb v/v			05/13/17 08:04	1

Client Sample ID: OA-1
Lab Sample ID: 200-38558-7
Date Collected: 05/11/17 15:25
Matrix: Air
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Method: 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	0.018	ppb v/v			05/13/17 08:04	1
Xylene (total)	0.70	U	0.70	0.040	ppb v/v			05/13/17 08:04	1
Xylene, o-	0.20	U	0.20	0.040	ppb v/v			05/13/17 08:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			05/13/17 08:04	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			05/13/17 08:04	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			05/13/17 08:04	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			05/13/17 08:04	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/13/17 08:04	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			05/13/17 08:04	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m3			05/13/17 08:04	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			05/13/17 08:04	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			05/13/17 08:04	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			05/13/17 08:04	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.11	ug/m3			05/13/17 08:04	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			05/13/17 08:04	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			05/13/17 08:04	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			05/13/17 08:04	1
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			05/13/17 08:04	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			05/13/17 08:04	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			05/13/17 08:04	1
1,4-Dioxane	18	U	18	2.7	ug/m3			05/13/17 08:04	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			05/13/17 08:04	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			05/13/17 08:04	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			05/13/17 08:04	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			05/13/17 08:04	1
Acetone	12	U	12	3.1	ug/m3			05/13/17 08:04	1
Benzene	**0.19**	**J**	0.64	0.089	ug/m3			05/13/17 08:04	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			05/13/17 08:04	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			05/13/17 08:04	1
Bromoform	2.1	U	2.1	0.36	ug/m3			05/13/17 08:04	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			05/13/17 08:04	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			05/13/17 08:04	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.069	ug/m3			05/13/17 08:04	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			05/13/17 08:04	1
Chloroethane	1.3	U	1.3	0.34	ug/m3			05/13/17 08:04	1
Chloroform	0.98	U	0.98	0.12	ug/m3			05/13/17 08:04	1
Chloromethane	**1.1**		1.0	0.33	ug/m3			05/13/17 08:04	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			05/13/17 08:04	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			05/13/17 08:04	1
Cyclohexane	0.69	U	0.69	0.15	ug/m3			05/13/17 08:04	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			05/13/17 08:04	1
Dichlorodifluoromethane	**2.3**	**J**	2.5	0.23	ug/m3			05/13/17 08:04	1
Ethylbenzene	0.87	U	0.87	0.15	ug/m3			05/13/17 08:04	1
Freon TF	**0.52**	**J**	1.5	0.21	ug/m3			05/13/17 08:04	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			05/13/17 08:04	1
Isopropyl alcohol	12	U	12	0.32	ug/m3			05/13/17 08:04	1
m,p-Xylene	2.2	U	2.2	0.33	ug/m3			05/13/17 08:04	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: OA-1
Date Collected: 05/11/17 15:25
Date Received: 05/12/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-38558-7
Matrix: Air

Method: 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)	2.0	U	2.0	0.35	ug/m3			05/13/17 08:04	1
Methyl Ethyl Ketone	1.5	U	1.5	0.32	ug/m3			05/13/17 08:04	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			05/13/17 08:04	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			05/13/17 08:04	1
Methylene Chloride	**0.82**	**J**	1.7	0.24	ug/m3			05/13/17 08:04	1
n-Heptane	0.82	U	0.82	0.28	ug/m3			05/13/17 08:04	1
n-Hexane	0.70	U	0.70	0.16	ug/m3			05/13/17 08:04	1
Styrene	0.85	U	0.85	0.15	ug/m3			05/13/17 08:04	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			05/13/17 08:04	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			05/13/17 08:04	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			05/13/17 08:04	1
Toluene	**0.20**	**J**	0.75	0.13	ug/m3			05/13/17 08:04	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			05/13/17 08:04	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			05/13/17 08:04	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/13/17 08:04	1
Trichlorofluoromethane	**1.2**		1.1	0.17	ug/m3			05/13/17 08:04	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			05/13/17 08:04	1
Xylene (total)	3.0	U	3.0	0.17	ug/m3			05/13/17 08:04	1
Xylene, o-	0.87	U	0.87	0.17	ug/m3			05/13/17 08:04	1

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

Lab Sample ID: MB 200-116639/4
Matrix: Air
Analysis Batch: 116639

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	0.026	ppb v/v			05/12/17 12:46	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			05/12/17 12:46	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			05/12/17 12:46	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			05/12/17 12:46	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/12/17 12:46	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			05/12/17 12:46	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			05/12/17 12:46	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			05/12/17 12:46	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			05/12/17 12:46	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			05/12/17 12:46	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.029	ppb v/v			05/12/17 12:46	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			05/12/17 12:46	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			05/12/17 12:46	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			05/12/17 12:46	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			05/12/17 12:46	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			05/12/17 12:46	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			05/12/17 12:46	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			05/12/17 12:46	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			05/12/17 12:46	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			05/12/17 12:46	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			05/12/17 12:46	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			05/12/17 12:46	1
Acetone	5.0	U	5.0	1.3	ppb v/v			05/12/17 12:46	1
Benzene	0.20	U	0.20	0.028	ppb v/v			05/12/17 12:46	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			05/12/17 12:46	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			05/12/17 12:46	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			05/12/17 12:46	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			05/12/17 12:46	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			05/12/17 12:46	1
Carbon tetrachloride	0.20	U	0.20	0.011	ppb v/v			05/12/17 12:46	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			05/12/17 12:46	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			05/12/17 12:46	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			05/12/17 12:46	1
Chloromethane	0.50	U	0.50	0.16	ppb v/v			05/12/17 12:46	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			05/12/17 12:46	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			05/12/17 12:46	1
Cyclohexane	0.20	U	0.20	0.045	ppb v/v			05/12/17 12:46	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			05/12/17 12:46	1
Dichlorodifluoromethane	0.50	U	0.50	0.047	ppb v/v			05/12/17 12:46	1
Ethylbenzene	0.20	U	0.20	0.034	ppb v/v			05/12/17 12:46	1
Freon TF	0.20	U	0.20	0.027	ppb v/v			05/12/17 12:46	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			05/12/17 12:46	1
Isopropyl alcohol	5.0	U	5.0	0.13	ppb v/v			05/12/17 12:46	1
m,p-Xylene	0.50	U	0.50	0.077	ppb v/v			05/12/17 12:46	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			05/12/17 12:46	1
Methyl Ethyl Ketone	0.50	U	0.50	0.11	ppb v/v			05/12/17 12:46	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			05/12/17 12:46	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			05/12/17 12:46	1

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

Lab Sample ID: MB 200-116639/4
Matrix: Air
Analysis Batch: 116639

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50	U	0.50	0.068	ppb v/v			05/12/17 12:46	1
n-Heptane	0.20	U	0.20	0.068	ppb v/v			05/12/17 12:46	1
n-Hexane	0.20	U	0.20	0.046	ppb v/v			05/12/17 12:46	1
Styrene	0.20	U	0.20	0.035	ppb v/v			05/12/17 12:46	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			05/12/17 12:46	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			05/12/17 12:46	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			05/12/17 12:46	1
Toluene	0.20	U	0.20	0.035	ppb v/v			05/12/17 12:46	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			05/12/17 12:46	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			05/12/17 12:46	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			05/12/17 12:46	1
Trichlorofluoromethane	0.20	U	0.20	0.031	ppb v/v			05/12/17 12:46	1
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			05/12/17 12:46	1
Xylene (total)	0.70	U	0.70	0.040	ppb v/v			05/12/17 12:46	1
Xylene, o-	0.20	U	0.20	0.040	ppb v/v			05/12/17 12:46	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			05/12/17 12:46	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			05/12/17 12:46	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			05/12/17 12:46	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			05/12/17 12:46	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/12/17 12:46	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			05/12/17 12:46	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m3			05/12/17 12:46	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			05/12/17 12:46	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			05/12/17 12:46	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			05/12/17 12:46	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.11	ug/m3			05/12/17 12:46	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			05/12/17 12:46	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			05/12/17 12:46	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			05/12/17 12:46	1
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			05/12/17 12:46	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			05/12/17 12:46	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			05/12/17 12:46	1
1,4-Dioxane	18	U	18	2.7	ug/m3			05/12/17 12:46	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			05/12/17 12:46	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			05/12/17 12:46	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			05/12/17 12:46	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			05/12/17 12:46	1
Acetone	12	U	12	3.1	ug/m3			05/12/17 12:46	1
Benzene	0.64	U	0.64	0.089	ug/m3			05/12/17 12:46	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			05/12/17 12:46	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			05/12/17 12:46	1
Bromoform	2.1	U	2.1	0.36	ug/m3			05/12/17 12:46	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			05/12/17 12:46	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			05/12/17 12:46	1
Carbon tetrachloride	1.3	U	1.3	0.069	ug/m3			05/12/17 12:46	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			05/12/17 12:46	1

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

Lab Sample ID: MB 200-116639/4
Matrix: Air
Analysis Batch: 116639

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.3	U	1.3	0.34	ug/m3			05/12/17 12:46	1
Chloroform	0.98	U	0.98	0.12	ug/m3			05/12/17 12:46	1
Chloromethane	1.0	U	1.0	0.33	ug/m3			05/12/17 12:46	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			05/12/17 12:46	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			05/12/17 12:46	1
Cyclohexane	0.69	U	0.69	0.15	ug/m3			05/12/17 12:46	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			05/12/17 12:46	1
Dichlorodifluoromethane	2.5	U	2.5	0.23	ug/m3			05/12/17 12:46	1
Ethylbenzene	0.87	U	0.87	0.15	ug/m3			05/12/17 12:46	1
Freon TF	1.5	U	1.5	0.21	ug/m3			05/12/17 12:46	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			05/12/17 12:46	1
Isopropyl alcohol	12	U	12	0.32	ug/m3			05/12/17 12:46	1
m,p-Xylene	2.2	U	2.2	0.33	ug/m3			05/12/17 12:46	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			05/12/17 12:46	1
Methyl Ethyl Ketone	1.5	U	1.5	0.32	ug/m3			05/12/17 12:46	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			05/12/17 12:46	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			05/12/17 12:46	1
Methylene Chloride	1.7	U	1.7	0.24	ug/m3			05/12/17 12:46	1
n-Heptane	0.82	U	0.82	0.28	ug/m3			05/12/17 12:46	1
n-Hexane	0.70	U	0.70	0.16	ug/m3			05/12/17 12:46	1
Styrene	0.85	U	0.85	0.15	ug/m3			05/12/17 12:46	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			05/12/17 12:46	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			05/12/17 12:46	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			05/12/17 12:46	1
Toluene	0.75	U	0.75	0.13	ug/m3			05/12/17 12:46	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			05/12/17 12:46	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			05/12/17 12:46	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/12/17 12:46	1
Trichlorofluoromethane	1.1	U	1.1	0.17	ug/m3			05/12/17 12:46	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			05/12/17 12:46	1
Xylene (total)	3.0	U	3.0	0.17	ug/m3			05/12/17 12:46	1
Xylene, o-	0.87	U	0.87	0.17	ug/m3			05/12/17 12:46	1

Lab Sample ID: LCS 200-116639/3
Matrix: Air
Analysis Batch: 116639

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	9.31		ppb v/v		93	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.81		ppb v/v		98	69 - 129
1,1,2-Trichloroethane	10.0	9.70		ppb v/v		97	69 - 129
1,1-Dichloroethane	10.0	8.93		ppb v/v		89	66 - 126
1,1-Dichloroethene	10.0	9.20		ppb v/v		92	67 - 127
1,2,4-Trichlorobenzene	10.0	11.4		ppb v/v		114	59 - 126
1,2,4-Trimethylbenzene	10.0	9.18		ppb v/v		92	65 - 125
1,2-Dibromoethane	10.0	9.55		ppb v/v		96	70 - 130
1,2-Dichlorobenzene	10.0	9.31		ppb v/v		93	67 - 127
1,2-Dichloroethane	10.0	9.29		ppb v/v		93	67 - 132

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

Lab Sample ID: LCS 200-116639/3
Matrix: Air
Analysis Batch: 116639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	9.39		ppb v/v		94	67 - 127
1,2-Dichlorotetrafluoroethane	10.0	10.1		ppb v/v		101	78 - 138
1,3,5-Trimethylbenzene	10.0	9.24		ppb v/v		92	65 - 125
1,3-Butadiene	10.0	9.01		ppb v/v		90	59 - 125
1,3-Dichlorobenzene	10.0	9.60		ppb v/v		96	67 - 127
1,4-Dichlorobenzene	10.0	9.64		ppb v/v		96	66 - 126
1,4-Dioxane	10.0	7.53		ppb v/v		75	66 - 132
2,2,4-Trimethylpentane	10.0	9.33		ppb v/v		93	67 - 127
2-Chlorotoluene	10.0	9.20		ppb v/v		92	67 - 127
3-Chloropropene	10.0	8.70		ppb v/v		87	53 - 133
4-Ethyltoluene	10.0	9.53		ppb v/v		95	69 - 129
Acetone	10.0	9.99		ppb v/v		100	64 - 136
Benzene	10.0	9.32		ppb v/v		93	67 - 127
Bromodichloromethane	10.0	9.40		ppb v/v		94	69 - 129
Bromoethene(Vinyl Bromide)	10.0	9.38		ppb v/v		94	67 - 127
Bromoform	10.0	10.1		ppb v/v		101	34 - 170
Bromomethane	10.0	9.52		ppb v/v		95	68 - 128
Carbon disulfide	10.0	11.0		ppb v/v		110	81 - 141
Carbon tetrachloride	10.0	9.33		ppb v/v		93	62 - 143
Chlorobenzene	10.0	9.29		ppb v/v		93	68 - 128
Chloroethane	10.0	9.51		ppb v/v		95	65 - 125
Chloroform	10.0	9.37		ppb v/v		94	69 - 129
Chloromethane	10.0	8.97		ppb v/v		90	57 - 126
cis-1,2-Dichloroethene	10.0	9.30		ppb v/v		93	67 - 127
cis-1,3-Dichloropropene	10.0	9.58		ppb v/v		96	70 - 130
Cyclohexane	10.0	9.43		ppb v/v		94	69 - 129
Dibromochloromethane	10.0	9.42		ppb v/v		94	66 - 130
Dichlorodifluoromethane	10.0	9.30		ppb v/v		93	68 - 128
Ethylbenzene	10.0	9.31		ppb v/v		93	68 - 128
Freon TF	10.0	9.42		ppb v/v		94	68 - 128
Hexachlorobutadiene	10.0	9.06		ppb v/v		91	62 - 130
Isopropyl alcohol	10.0	9.31		ppb v/v		93	55 - 124
m,p-Xylene	20.0	18.6		ppb v/v		93	68 - 128
Methyl Butyl Ketone (2-Hexanone)	10.0	8.54		ppb v/v		85	61 - 127
Methyl Ethyl Ketone	10.0	9.53		ppb v/v		95	62 - 122
methyl isobutyl ketone	10.0	8.92		ppb v/v		89	62 - 130
Methyl tert-butyl ether	10.0	9.14		ppb v/v		91	67 - 127
Methylene Chloride	10.0	9.41		ppb v/v		94	62 - 122
n-Heptane	10.0	9.33		ppb v/v		93	62 - 130
n-Hexane	10.0	9.89		ppb v/v		99	71 - 131
Styrene	10.0	9.42		ppb v/v		94	68 - 128
tert-Butyl alcohol	10.0	9.13		ppb v/v		91	64 - 124
Tetrachloroethene	10.0	8.70		ppb v/v		87	70 - 130
Tetrahydrofuran	10.0	10.3		ppb v/v		103	61 - 136
Toluene	10.0	9.33		ppb v/v		93	67 - 127
trans-1,2-Dichloroethene	10.0	9.87		ppb v/v		99	72 - 132
trans-1,3-Dichloropropene	10.0	9.60		ppb v/v		96	69 - 129

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

Lab Sample ID: LCS 200-116639/3
Matrix: Air
Analysis Batch: 116639

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	8.65		ppb v/v		87	68 - 128
Trichlorofluoromethane	10.0	9.01		ppb v/v		90	67 - 127
Vinyl chloride	10.0	8.69		ppb v/v		87	62 - 125
Xylene, o-	10.0	9.14		ppb v/v		91	67 - 127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	50.8		ug/m3		93	70 - 130
1,1,2,2-Tetrachloroethane	69	67.4		ug/m3		98	69 - 129
1,1,2-Trichloroethane	55	52.9		ug/m3		97	69 - 129
1,1-Dichloroethane	40	36.2		ug/m3		89	66 - 126
1,1-Dichloroethene	40	36.5		ug/m3		92	67 - 127
1,2,4-Trichlorobenzene	74	84.8		ug/m3		114	59 - 126
1,2,4-Trimethylbenzene	49	45.1		ug/m3		92	65 - 125
1,2-Dibromoethane	77	73.4		ug/m3		96	70 - 130
1,2-Dichlorobenzene	60	55.9		ug/m3		93	67 - 127
1,2-Dichloroethane	40	37.6		ug/m3		93	67 - 132
1,2-Dichloropropane	46	43.4		ug/m3		94	67 - 127
1,2-Dichlorotetrafluoroethane	70	70.7		ug/m3		101	78 - 138
1,3,5-Trimethylbenzene	49	45.4		ug/m3		92	65 - 125
1,3-Butadiene	22	19.9		ug/m3		90	59 - 125
1,3-Dichlorobenzene	60	57.7		ug/m3		96	67 - 127
1,4-Dichlorobenzene	60	58.0		ug/m3		96	66 - 126
1,4-Dioxane	36	27.1		ug/m3		75	66 - 132
2,2,4-Trimethylpentane	47	43.6		ug/m3		93	67 - 127
2-Chlorotoluene	52	47.7		ug/m3		92	67 - 127
3-Chloropropene	31	27.2		ug/m3		87	53 - 133
4-Ethyltoluene	49	46.9		ug/m3		95	69 - 129
Acetone	24	23.7		ug/m3		100	64 - 136
Benzene	32	29.8		ug/m3		93	67 - 127
Bromodichloromethane	67	63.0		ug/m3		94	69 - 129
Bromoethene(Vinyl Bromide)	44	41.0		ug/m3		94	67 - 127
Bromoform	100	104		ug/m3		101	34 - 170
Bromomethane	39	37.0		ug/m3		95	68 - 128
Carbon disulfide	31	34.4		ug/m3		110	81 - 141
Carbon tetrachloride	63	58.7		ug/m3		93	62 - 143
Chlorobenzene	46	42.7		ug/m3		93	68 - 128
Chloroethane	26	25.1		ug/m3		95	65 - 125
Chloroform	49	45.7		ug/m3		94	69 - 129
Chloromethane	21	18.5		ug/m3		90	57 - 126
cis-1,2-Dichloroethene	40	36.9		ug/m3		93	67 - 127
cis-1,3-Dichloropropene	45	43.5		ug/m3		96	70 - 130
Cyclohexane	34	32.5		ug/m3		94	69 - 129
Dibromochloromethane	85	80.2		ug/m3		94	66 - 130
Dichlorodifluoromethane	49	46.0		ug/m3		93	68 - 128
Ethylbenzene	43	40.4		ug/m3		93	68 - 128
Freon TF	77	72.2		ug/m3		94	68 - 128
Hexachlorobutadiene	110	96.6		ug/m3		91	62 - 130
Isopropyl alcohol	25	22.9		ug/m3		93	55 - 124

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

Lab Sample ID: LCS 200-116639/3
Matrix: Air
Analysis Batch: 116639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	87	80.9		ug/m3		93	68 - 128
Methyl Butyl Ketone (2-Hexanone)	41	35.0		ug/m3		85	61 - 127
Methyl Ethyl Ketone	29	28.1		ug/m3		95	62 - 122
methyl isobutyl ketone	41	36.5		ug/m3		89	62 - 130
Methyl tert-butyl ether	36	33.0		ug/m3		91	67 - 127
Methylene Chloride	35	32.7		ug/m3		94	62 - 122
n-Heptane	41	38.2		ug/m3		93	62 - 130
n-Hexane	35	34.9		ug/m3		99	71 - 131
Styrene	43	40.1		ug/m3		94	68 - 128
tert-Butyl alcohol	30	27.7		ug/m3		91	64 - 124
Tetrachloroethene	68	59.0		ug/m3		87	70 - 130
Tetrahydrofuran	29	30.3		ug/m3		103	61 - 136
Toluene	38	35.2		ug/m3		93	67 - 127
trans-1,2-Dichloroethene	40	39.1		ug/m3		99	72 - 132
trans-1,3-Dichloropropene	45	43.6		ug/m3		96	69 - 129
Trichloroethene	54	46.5		ug/m3		87	68 - 128
Trichlorofluoromethane	56	50.6		ug/m3		90	67 - 127
Vinyl chloride	26	22.2		ug/m3		87	62 - 125
Xylene, o-	43	39.7		ug/m3		91	67 - 127

Lab Sample ID: MB 200-116680/5
Matrix: Air
Analysis Batch: 116680

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	0.026	ppb v/v			05/15/17 13:01	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			05/15/17 13:01	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			05/15/17 13:01	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			05/15/17 13:01	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:01	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			05/15/17 13:01	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			05/15/17 13:01	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			05/15/17 13:01	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			05/15/17 13:01	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			05/15/17 13:01	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.029	ppb v/v			05/15/17 13:01	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:01	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			05/15/17 13:01	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			05/15/17 13:01	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			05/15/17 13:01	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			05/15/17 13:01	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			05/15/17 13:01	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			05/15/17 13:01	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			05/15/17 13:01	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:01	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			05/15/17 13:01	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			05/15/17 13:01	1
Acetone	5.0	U	5.0	1.3	ppb v/v			05/15/17 13:01	1

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

Lab Sample ID: MB 200-116680/5
Matrix: Air
Analysis Batch: 116680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	0.20	0.028	ppb v/v			05/15/17 13:01	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			05/15/17 13:01	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			05/15/17 13:01	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:01	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			05/15/17 13:01	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			05/15/17 13:01	1
Carbon tetrachloride	0.20	U	0.20	0.011	ppb v/v			05/15/17 13:01	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			05/15/17 13:01	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			05/15/17 13:01	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			05/15/17 13:01	1
Chloromethane	0.50	U	0.50	0.16	ppb v/v			05/15/17 13:01	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			05/15/17 13:01	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			05/15/17 13:01	1
Cyclohexane	0.20	U	0.20	0.045	ppb v/v			05/15/17 13:01	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			05/15/17 13:01	1
Dichlorodifluoromethane	0.50	U	0.50	0.047	ppb v/v			05/15/17 13:01	1
Ethylbenzene	0.20	U	0.20	0.034	ppb v/v			05/15/17 13:01	1
Freon TF	0.20	U	0.20	0.027	ppb v/v			05/15/17 13:01	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			05/15/17 13:01	1
Isopropyl alcohol	5.0	U	5.0	0.13	ppb v/v			05/15/17 13:01	1
m,p-Xylene	0.50	U	0.50	0.077	ppb v/v			05/15/17 13:01	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			05/15/17 13:01	1
Methyl Ethyl Ketone	0.50	U	0.50	0.11	ppb v/v			05/15/17 13:01	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			05/15/17 13:01	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			05/15/17 13:01	1
Methylene Chloride	0.182	J	0.50	0.068	ppb v/v			05/15/17 13:01	1
n-Heptane	0.20	U	0.20	0.068	ppb v/v			05/15/17 13:01	1
n-Hexane	0.20	U	0.20	0.046	ppb v/v			05/15/17 13:01	1
Styrene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:01	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			05/15/17 13:01	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			05/15/17 13:01	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			05/15/17 13:01	1
Toluene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:01	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			05/15/17 13:01	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			05/15/17 13:01	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			05/15/17 13:01	1
Trichlorofluoromethane	0.20	U	0.20	0.031	ppb v/v			05/15/17 13:01	1
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			05/15/17 13:01	1
Xylene (total)	0.70	U	0.70	0.040	ppb v/v			05/15/17 13:01	1
Xylene, o-	0.20	U	0.20	0.040	ppb v/v			05/15/17 13:01	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			05/15/17 13:01	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			05/15/17 13:01	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			05/15/17 13:01	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			05/15/17 13:01	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/15/17 13:01	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			05/15/17 13:01	1

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

Lab Sample ID: MB 200-116680/5
Matrix: Air
Analysis Batch: 116680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m3			05/15/17 13:01	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			05/15/17 13:01	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			05/15/17 13:01	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			05/15/17 13:01	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.11	ug/m3			05/15/17 13:01	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			05/15/17 13:01	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			05/15/17 13:01	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			05/15/17 13:01	1
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			05/15/17 13:01	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			05/15/17 13:01	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			05/15/17 13:01	1
1,4-Dioxane	18	U	18	2.7	ug/m3			05/15/17 13:01	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			05/15/17 13:01	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			05/15/17 13:01	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			05/15/17 13:01	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			05/15/17 13:01	1
Acetone	12	U	12	3.1	ug/m3			05/15/17 13:01	1
Benzene	0.64	U	0.64	0.089	ug/m3			05/15/17 13:01	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			05/15/17 13:01	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			05/15/17 13:01	1
Bromoform	2.1	U	2.1	0.36	ug/m3			05/15/17 13:01	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			05/15/17 13:01	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			05/15/17 13:01	1
Carbon tetrachloride	1.3	U	1.3	0.069	ug/m3			05/15/17 13:01	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			05/15/17 13:01	1
Chloroethane	1.3	U	1.3	0.34	ug/m3			05/15/17 13:01	1
Chloroform	0.98	U	0.98	0.12	ug/m3			05/15/17 13:01	1
Chloromethane	1.0	U	1.0	0.33	ug/m3			05/15/17 13:01	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			05/15/17 13:01	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			05/15/17 13:01	1
Cyclohexane	0.69	U	0.69	0.15	ug/m3			05/15/17 13:01	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			05/15/17 13:01	1
Dichlorodifluoromethane	2.5	U	2.5	0.23	ug/m3			05/15/17 13:01	1
Ethylbenzene	0.87	U	0.87	0.15	ug/m3			05/15/17 13:01	1
Freon TF	1.5	U	1.5	0.21	ug/m3			05/15/17 13:01	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			05/15/17 13:01	1
Isopropyl alcohol	12	U	12	0.32	ug/m3			05/15/17 13:01	1
m,p-Xylene	2.2	U	2.2	0.33	ug/m3			05/15/17 13:01	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			05/15/17 13:01	1
Methyl Ethyl Ketone	1.5	U	1.5	0.32	ug/m3			05/15/17 13:01	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			05/15/17 13:01	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			05/15/17 13:01	1
Methylene Chloride	0.631	J	1.7	0.24	ug/m3			05/15/17 13:01	1
n-Heptane	0.82	U	0.82	0.28	ug/m3			05/15/17 13:01	1
n-Hexane	0.70	U	0.70	0.16	ug/m3			05/15/17 13:01	1
Styrene	0.85	U	0.85	0.15	ug/m3			05/15/17 13:01	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			05/15/17 13:01	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			05/15/17 13:01	1

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

Lab Sample ID: MB 200-116680/5
Matrix: Air
Analysis Batch: 116680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	15	U	15	3.5	ug/m3			05/15/17 13:01	1
Toluene	0.75	U	0.75	0.13	ug/m3			05/15/17 13:01	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			05/15/17 13:01	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			05/15/17 13:01	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/15/17 13:01	1
Trichlorofluoromethane	1.1	U	1.1	0.17	ug/m3			05/15/17 13:01	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			05/15/17 13:01	1
Xylene (total)	3.0	U	3.0	0.17	ug/m3			05/15/17 13:01	1
Xylene, o-	0.87	U	0.87	0.17	ug/m3			05/15/17 13:01	1

Lab Sample ID: LCS 200-116680/4
Matrix: Air
Analysis Batch: 116680

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	9.74		ppb v/v		97	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.4		ppb v/v		104	69 - 129
1,1,2-Trichloroethane	10.0	10.1		ppb v/v		101	69 - 129
1,1-Dichloroethane	10.0	9.60		ppb v/v		96	66 - 126
1,1-Dichloroethene	10.0	9.93		ppb v/v		99	67 - 127
1,2,4-Trichlorobenzene	10.0	11.8		ppb v/v		118	59 - 126
1,2,4-Trimethylbenzene	10.0	9.77		ppb v/v		98	65 - 125
1,2-Dibromoethane	10.0	9.96		ppb v/v		100	70 - 130
1,2-Dichlorobenzene	10.0	9.57		ppb v/v		96	67 - 127
1,2-Dichloroethane	10.0	9.70		ppb v/v		97	67 - 132
1,2-Dichloropropane	10.0	10.3		ppb v/v		103	67 - 127
1,2-Dichlorotetrafluoroethane	10.0	9.68		ppb v/v		97	78 - 138
1,3,5-Trimethylbenzene	10.0	9.87		ppb v/v		99	65 - 125
1,3-Butadiene	10.0	10.2		ppb v/v		102	59 - 125
1,3-Dichlorobenzene	10.0	10.0		ppb v/v		100	67 - 127
1,4-Dichlorobenzene	10.0	10.1		ppb v/v		101	66 - 126
1,4-Dioxane	10.0	10.5		ppb v/v		105	66 - 132
2,2,4-Trimethylpentane	10.0	10.2		ppb v/v		102	67 - 127
2-Chlorotoluene	10.0	9.88		ppb v/v		99	67 - 127
3-Chloropropene	10.0	11.6		ppb v/v		116	53 - 133
4-Ethyltoluene	10.0	10.0		ppb v/v		100	69 - 129
Acetone	10.0	10.8		ppb v/v		108	64 - 136
Benzene	10.0	9.93		ppb v/v		99	67 - 127
Bromodichloromethane	10.0	10.2		ppb v/v		102	69 - 129
Bromoethene(Vinyl Bromide)	10.0	10.1		ppb v/v		101	67 - 127
Bromoform	10.0	12.6		ppb v/v		126	34 - 170
Bromomethane	10.0	10.1		ppb v/v		101	68 - 128
Carbon disulfide	10.0	10.4		ppb v/v		104	81 - 141
Carbon tetrachloride	10.0	9.60		ppb v/v		96	62 - 143
Chlorobenzene	10.0	9.72		ppb v/v		97	68 - 128
Chloroethane	10.0	10.6		ppb v/v		106	65 - 125
Chloroform	10.0	9.89		ppb v/v		99	69 - 129
Chloromethane	10.0	10.2		ppb v/v		102	57 - 126

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

Lab Sample ID: LCS 200-116680/4
Matrix: Air
Analysis Batch: 116680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	10.0	10.1		ppb v/v		101	67 - 127
cis-1,3-Dichloropropene	10.0	10.2		ppb v/v		102	70 - 130
Cyclohexane	10.0	9.97		ppb v/v		100	69 - 129
Dibromochloromethane	10.0	10.6		ppb v/v		106	66 - 130
Dichlorodifluoromethane	10.0	9.96		ppb v/v		100	68 - 128
Ethylbenzene	10.0	9.83		ppb v/v		98	68 - 128
Freon TF	10.0	9.94		ppb v/v		99	68 - 128
Hexachlorobutadiene	10.0	9.09		ppb v/v		91	62 - 130
Isopropyl alcohol	10.0	11.3		ppb v/v		113	55 - 124
m,p-Xylene	20.0	19.7		ppb v/v		98	68 - 128
Methyl Butyl Ketone (2-Hexanone)	10.0	8.82		ppb v/v		88	61 - 127
Methyl Ethyl Ketone	10.0	10.2		ppb v/v		102	62 - 122
methyl isobutyl ketone	10.0	10.3		ppb v/v		103	62 - 130
Methyl tert-butyl ether	10.0	9.92		ppb v/v		99	67 - 127
Methylene Chloride	10.0	10.3		ppb v/v		103	62 - 122
n-Heptane	10.0	10.3		ppb v/v		103	62 - 130
n-Hexane	10.0	10.1		ppb v/v		101	71 - 131
Styrene	10.0	10.1		ppb v/v		101	68 - 128
tert-Butyl alcohol	10.0	10.8		ppb v/v		108	64 - 124
Tetrachloroethene	10.0	9.03		ppb v/v		90	70 - 130
Tetrahydrofuran	10.0	11.2		ppb v/v		112	61 - 136
Toluene	10.0	9.80		ppb v/v		98	67 - 127
trans-1,2-Dichloroethene	10.0	10.2		ppb v/v		102	72 - 132
trans-1,3-Dichloropropene	10.0	10.3		ppb v/v		103	69 - 129
Trichloroethene	10.0	9.03		ppb v/v		90	68 - 128
Trichlorofluoromethane	10.0	9.56		ppb v/v		96	67 - 127
Vinyl chloride	10.0	9.68		ppb v/v		97	62 - 125
Xylene, o-	10.0	9.84		ppb v/v		98	67 - 127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	53.2		ug/m3		97	70 - 130
1,1,2,2-Tetrachloroethane	69	71.3		ug/m3		104	69 - 129
1,1,2-Trichloroethane	55	55.4		ug/m3		101	69 - 129
1,1-Dichloroethane	40	38.9		ug/m3		96	66 - 126
1,1-Dichloroethene	40	39.4		ug/m3		99	67 - 127
1,2,4-Trichlorobenzene	74	87.7		ug/m3		118	59 - 126
1,2,4-Trimethylbenzene	49	48.0		ug/m3		98	65 - 125
1,2-Dibromoethane	77	76.6		ug/m3		100	70 - 130
1,2-Dichlorobenzene	60	57.5		ug/m3		96	67 - 127
1,2-Dichloroethane	40	39.3		ug/m3		97	67 - 132
1,2-Dichloropropane	46	47.5		ug/m3		103	67 - 127
1,2-Dichlorotetrafluoroethane	70	67.7		ug/m3		97	78 - 138
1,3,5-Trimethylbenzene	49	48.5		ug/m3		99	65 - 125
1,3-Butadiene	22	22.5		ug/m3		102	59 - 125
1,3-Dichlorobenzene	60	60.2		ug/m3		100	67 - 127
1,4-Dichlorobenzene	60	60.5		ug/m3		101	66 - 126
1,4-Dioxane	36	37.8		ug/m3		105	66 - 132

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

Lab Sample ID: LCS 200-116680/4
Matrix: Air
Analysis Batch: 116680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2,4-Trimethylpentane	47	47.9		ug/m3		102	67 - 127
2-Chlorotoluene	52	51.1		ug/m3		99	67 - 127
3-Chloropropene	31	36.4		ug/m3		116	53 - 133
4-Ethyltoluene	49	49.1		ug/m3		100	69 - 129
Acetone	24	25.6		ug/m3		108	64 - 136
Benzene	32	31.7		ug/m3		99	67 - 127
Bromodichloromethane	67	68.2		ug/m3		102	69 - 129
Bromoethene(Vinyl Bromide)	44	44.2		ug/m3		101	67 - 127
Bromoform	100	130		ug/m3		126	34 - 170
Bromomethane	39	39.2		ug/m3		101	68 - 128
Carbon disulfide	31	32.5		ug/m3		104	81 - 141
Carbon tetrachloride	63	60.4		ug/m3		96	62 - 143
Chlorobenzene	46	44.8		ug/m3		97	68 - 128
Chloroethane	26	28.0		ug/m3		106	65 - 125
Chloroform	49	48.3		ug/m3		99	69 - 129
Chloromethane	21	21.1		ug/m3		102	57 - 126
cis-1,2-Dichloroethene	40	40.0		ug/m3		101	67 - 127
cis-1,3-Dichloropropene	45	46.2		ug/m3		102	70 - 130
Cyclohexane	34	34.3		ug/m3		100	69 - 129
Dibromochloromethane	85	90.1		ug/m3		106	66 - 130
Dichlorodifluoromethane	49	49.2		ug/m3		100	68 - 128
Ethylbenzene	43	42.7		ug/m3		98	68 - 128
Freon TF	77	76.2		ug/m3		99	68 - 128
Hexachlorobutadiene	110	96.9		ug/m3		91	62 - 130
Isopropyl alcohol	25	27.7		ug/m3		113	55 - 124
m,p-Xylene	87	85.4		ug/m3		98	68 - 128
Methyl Butyl Ketone (2-Hexanone)	41	36.1		ug/m3		88	61 - 127
Methyl Ethyl Ketone	29	30.0		ug/m3		102	62 - 122
methyl isobutyl ketone	41	42.3		ug/m3		103	62 - 130
Methyl tert-butyl ether	36	35.8		ug/m3		99	67 - 127
Methylene Chloride	35	35.8		ug/m3		103	62 - 122
n-Heptane	41	42.2		ug/m3		103	62 - 130
n-Hexane	35	35.6		ug/m3		101	71 - 131
Styrene	43	43.0		ug/m3		101	68 - 128
tert-Butyl alcohol	30	32.7		ug/m3		108	64 - 124
Tetrachloroethene	68	61.3		ug/m3		90	70 - 130
Tetrahydrofuran	29	33.1		ug/m3		112	61 - 136
Toluene	38	36.9		ug/m3		98	67 - 127
trans-1,2-Dichloroethene	40	40.3		ug/m3		102	72 - 132
trans-1,3-Dichloropropene	45	46.7		ug/m3		103	69 - 129
Trichloroethene	54	48.5		ug/m3		90	68 - 128
Trichlorofluoromethane	56	53.7		ug/m3		96	67 - 127
Vinyl chloride	26	24.7		ug/m3		97	62 - 125
Xylene, o-	43	42.7		ug/m3		98	67 - 127

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

Lab Sample ID: MB 200-116683/5
Matrix: Air
Analysis Batch: 116683

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	0.026	ppb v/v			05/15/17 13:46	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			05/15/17 13:46	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			05/15/17 13:46	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			05/15/17 13:46	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:46	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			05/15/17 13:46	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			05/15/17 13:46	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			05/15/17 13:46	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			05/15/17 13:46	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			05/15/17 13:46	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.029	ppb v/v			05/15/17 13:46	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:46	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			05/15/17 13:46	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			05/15/17 13:46	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			05/15/17 13:46	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			05/15/17 13:46	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			05/15/17 13:46	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			05/15/17 13:46	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			05/15/17 13:46	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:46	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			05/15/17 13:46	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			05/15/17 13:46	1
Acetone	5.0	U	5.0	1.3	ppb v/v			05/15/17 13:46	1
Benzene	0.20	U	0.20	0.028	ppb v/v			05/15/17 13:46	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			05/15/17 13:46	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			05/15/17 13:46	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:46	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			05/15/17 13:46	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			05/15/17 13:46	1
Carbon tetrachloride	0.20	U	0.20	0.011	ppb v/v			05/15/17 13:46	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			05/15/17 13:46	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			05/15/17 13:46	1
Chloroform	0.125	J	0.20	0.025	ppb v/v			05/15/17 13:46	1
Chloromethane	0.50	U	0.50	0.16	ppb v/v			05/15/17 13:46	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			05/15/17 13:46	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			05/15/17 13:46	1
Cyclohexane	0.20	U	0.20	0.045	ppb v/v			05/15/17 13:46	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			05/15/17 13:46	1
Dichlorodifluoromethane	0.50	U	0.50	0.047	ppb v/v			05/15/17 13:46	1
Ethylbenzene	0.20	U	0.20	0.034	ppb v/v			05/15/17 13:46	1
Freon TF	0.20	U	0.20	0.027	ppb v/v			05/15/17 13:46	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			05/15/17 13:46	1
Isopropyl alcohol	5.0	U	5.0	0.13	ppb v/v			05/15/17 13:46	1
m,p-Xylene	0.50	U	0.50	0.077	ppb v/v			05/15/17 13:46	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			05/15/17 13:46	1
Methyl Ethyl Ketone	0.50	U	0.50	0.11	ppb v/v			05/15/17 13:46	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			05/15/17 13:46	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			05/15/17 13:46	1

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

Lab Sample ID: MB 200-116683/5
Matrix: Air
Analysis Batch: 116683

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.0875	J	0.50	0.068	ppb v/v			05/15/17 13:46	1
n-Heptane	0.20	U	0.20	0.068	ppb v/v			05/15/17 13:46	1
n-Hexane	0.20	U	0.20	0.046	ppb v/v			05/15/17 13:46	1
Styrene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:46	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			05/15/17 13:46	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			05/15/17 13:46	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			05/15/17 13:46	1
Toluene	0.20	U	0.20	0.035	ppb v/v			05/15/17 13:46	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			05/15/17 13:46	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			05/15/17 13:46	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			05/15/17 13:46	1
Trichlorofluoromethane	0.20	U	0.20	0.031	ppb v/v			05/15/17 13:46	1
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			05/15/17 13:46	1
Xylene (total)	0.70	U	0.70	0.040	ppb v/v			05/15/17 13:46	1
Xylene, o-	0.20	U	0.20	0.040	ppb v/v			05/15/17 13:46	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			05/15/17 13:46	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			05/15/17 13:46	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			05/15/17 13:46	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			05/15/17 13:46	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			05/15/17 13:46	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			05/15/17 13:46	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m3			05/15/17 13:46	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			05/15/17 13:46	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			05/15/17 13:46	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			05/15/17 13:46	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.11	ug/m3			05/15/17 13:46	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			05/15/17 13:46	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			05/15/17 13:46	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			05/15/17 13:46	1
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			05/15/17 13:46	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			05/15/17 13:46	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			05/15/17 13:46	1
1,4-Dioxane	18	U	18	2.7	ug/m3			05/15/17 13:46	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			05/15/17 13:46	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			05/15/17 13:46	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			05/15/17 13:46	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			05/15/17 13:46	1
Acetone	12	U	12	3.1	ug/m3			05/15/17 13:46	1
Benzene	0.64	U	0.64	0.089	ug/m3			05/15/17 13:46	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			05/15/17 13:46	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			05/15/17 13:46	1
Bromoform	2.1	U	2.1	0.36	ug/m3			05/15/17 13:46	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			05/15/17 13:46	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			05/15/17 13:46	1
Carbon tetrachloride	1.3	U	1.3	0.069	ug/m3			05/15/17 13:46	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			05/15/17 13:46	1

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

Lab Sample ID: MB 200-116683/5
Matrix: Air
Analysis Batch: 116683

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.3	U	1.3	0.34	ug/m3			05/15/17 13:46	1
Chloroform	0.608	J	0.98	0.12	ug/m3			05/15/17 13:46	1
Chloromethane	1.0	U	1.0	0.33	ug/m3			05/15/17 13:46	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			05/15/17 13:46	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			05/15/17 13:46	1
Cyclohexane	0.69	U	0.69	0.15	ug/m3			05/15/17 13:46	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			05/15/17 13:46	1
Dichlorodifluoromethane	2.5	U	2.5	0.23	ug/m3			05/15/17 13:46	1
Ethylbenzene	0.87	U	0.87	0.15	ug/m3			05/15/17 13:46	1
Freon TF	1.5	U	1.5	0.21	ug/m3			05/15/17 13:46	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			05/15/17 13:46	1
Isopropyl alcohol	12	U	12	0.32	ug/m3			05/15/17 13:46	1
m,p-Xylene	2.2	U	2.2	0.33	ug/m3			05/15/17 13:46	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			05/15/17 13:46	1
Methyl Ethyl Ketone	1.5	U	1.5	0.32	ug/m3			05/15/17 13:46	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			05/15/17 13:46	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			05/15/17 13:46	1
Methylene Chloride	0.304	J	1.7	0.24	ug/m3			05/15/17 13:46	1
n-Heptane	0.82	U	0.82	0.28	ug/m3			05/15/17 13:46	1
n-Hexane	0.70	U	0.70	0.16	ug/m3			05/15/17 13:46	1
Styrene	0.85	U	0.85	0.15	ug/m3			05/15/17 13:46	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			05/15/17 13:46	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			05/15/17 13:46	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			05/15/17 13:46	1
Toluene	0.75	U	0.75	0.13	ug/m3			05/15/17 13:46	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			05/15/17 13:46	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			05/15/17 13:46	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/15/17 13:46	1
Trichlorofluoromethane	1.1	U	1.1	0.17	ug/m3			05/15/17 13:46	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			05/15/17 13:46	1
Xylene (total)	3.0	U	3.0	0.17	ug/m3			05/15/17 13:46	1
Xylene, o-	0.87	U	0.87	0.17	ug/m3			05/15/17 13:46	1

Lab Sample ID: LCS 200-116683/3
Matrix: Air
Analysis Batch: 116683

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	11.2		ppb v/v		112	70 - 130
1,1,2,2-Tetrachloroethane	10.0	11.6		ppb v/v		116	69 - 129
1,1,2-Trichloroethane	10.0	11.0		ppb v/v		110	69 - 129
1,1-Dichloroethane	10.0	10.1		ppb v/v		101	66 - 126
1,1-Dichloroethene	10.0	9.78		ppb v/v		98	67 - 127
1,2,4-Trichlorobenzene	10.0	10.6		ppb v/v		106	59 - 126
1,2,4-Trimethylbenzene	10.0	10.6		ppb v/v		106	65 - 125
1,2-Dibromoethane	10.0	10.8		ppb v/v		108	70 - 130
1,2-Dichlorobenzene	10.0	10.3		ppb v/v		103	67 - 127
1,2-Dichloroethane	10.0	11.4		ppb v/v		114	67 - 132

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

Lab Sample ID: LCS 200-116683/3
Matrix: Air
Analysis Batch: 116683

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	11.8		ppb v/v		118	67 - 127
1,2-Dichlorotetrafluoroethane	10.0	10.5		ppb v/v		105	78 - 138
1,3,5-Trimethylbenzene	10.0	10.4		ppb v/v		105	65 - 125
1,3-Butadiene	10.0	10.2		ppb v/v		102	59 - 125
1,3-Dichlorobenzene	10.0	10.9		ppb v/v		109	67 - 127
1,4-Dichlorobenzene	10.0	10.7		ppb v/v		107	66 - 126
1,4-Dioxane	10.0	13.5	*	ppb v/v		135	66 - 132
2,2,4-Trimethylpentane	10.0	11.5		ppb v/v		115	67 - 127
2-Chlorotoluene	10.0	11.1		ppb v/v		111	67 - 127
3-Chloropropene	10.0	9.39		ppb v/v		94	53 - 133
4-Ethyltoluene	10.0	11.2		ppb v/v		112	69 - 129
Acetone	10.0	10.1		ppb v/v		101	64 - 136
Benzene	10.0	11.2		ppb v/v		112	67 - 127
Bromodichloromethane	10.0	11.5		ppb v/v		115	69 - 129
Bromoethene(Vinyl Bromide)	10.0	10.4		ppb v/v		104	67 - 127
Bromoform	10.0	11.2		ppb v/v		112	34 - 170
Bromomethane	10.0	10.6		ppb v/v		106	68 - 128
Carbon disulfide	10.0	10.3		ppb v/v		103	81 - 141
Carbon tetrachloride	10.0	11.1		ppb v/v		111	62 - 143
Chlorobenzene	10.0	10.4		ppb v/v		104	68 - 128
Chloroethane	10.0	10.3		ppb v/v		103	65 - 125
Chloroform	10.0	9.36		ppb v/v		94	69 - 129
Chloromethane	10.0	10.4		ppb v/v		104	57 - 126
cis-1,2-Dichloroethene	10.0	10.4		ppb v/v		104	67 - 127
cis-1,3-Dichloropropene	10.0	11.6		ppb v/v		116	70 - 130
Cyclohexane	10.0	11.5		ppb v/v		115	69 - 129
Dibromochloromethane	10.0	10.8		ppb v/v		108	66 - 130
Dichlorodifluoromethane	10.0	10.6		ppb v/v		106	68 - 128
Ethylbenzene	10.0	10.5		ppb v/v		105	68 - 128
Freon TF	10.0	10.3		ppb v/v		103	68 - 128
Hexachlorobutadiene	10.0	9.56		ppb v/v		96	62 - 130
Isopropyl alcohol	10.0	11.8		ppb v/v		119	55 - 124
m,p-Xylene	20.0	21.1		ppb v/v		106	68 - 128
Methyl Butyl Ketone (2-Hexanone)	10.0	12.3		ppb v/v		123	61 - 127
Methyl Ethyl Ketone	10.0	10.3		ppb v/v		103	62 - 122
methyl isobutyl ketone	10.0	12.6		ppb v/v		126	62 - 130
Methyl tert-butyl ether	10.0	9.95		ppb v/v		100	67 - 127
Methylene Chloride	10.0	9.98		ppb v/v		100	62 - 122
n-Heptane	10.0	11.5		ppb v/v		115	62 - 130
n-Hexane	10.0	9.53		ppb v/v		95	71 - 131
Styrene	10.0	10.6		ppb v/v		106	68 - 128
tert-Butyl alcohol	10.0	11.5		ppb v/v		115	64 - 124
Tetrachloroethene	10.0	9.37		ppb v/v		94	70 - 130
Tetrahydrofuran	10.0	11.9		ppb v/v		119	61 - 136
Toluene	10.0	10.5		ppb v/v		105	67 - 127
trans-1,2-Dichloroethene	10.0	10.0		ppb v/v		100	72 - 132
trans-1,3-Dichloropropene	10.0	11.5		ppb v/v		115	69 - 129

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

Lab Sample ID: LCS 200-116683/3
Matrix: Air
Analysis Batch: 116683

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	10.6		ppb v/v		106	68 - 128
Trichlorofluoromethane	10.0	10.3		ppb v/v		103	67 - 127
Vinyl chloride	10.0	10.2		ppb v/v		102	62 - 125
Xylene, o-	10.0	10.5		ppb v/v		105	67 - 127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	61.0		ug/m3		112	70 - 130
1,1,2,2-Tetrachloroethane	69	79.4		ug/m3		116	69 - 129
1,1,2-Trichloroethane	55	59.9		ug/m3		110	69 - 129
1,1-Dichloroethane	40	41.1		ug/m3		101	66 - 126
1,1-Dichloroethene	40	38.8		ug/m3		98	67 - 127
1,2,4-Trichlorobenzene	74	78.9		ug/m3		106	59 - 126
1,2,4-Trimethylbenzene	49	52.2		ug/m3		106	65 - 125
1,2-Dibromoethane	77	82.8		ug/m3		108	70 - 130
1,2-Dichlorobenzene	60	62.2		ug/m3		103	67 - 127
1,2-Dichloroethane	40	46.2		ug/m3		114	67 - 132
1,2-Dichloropropane	46	54.4		ug/m3		118	67 - 127
1,2-Dichlorotetrafluoroethane	70	73.1		ug/m3		105	78 - 138
1,3,5-Trimethylbenzene	49	51.4		ug/m3		105	65 - 125
1,3-Butadiene	22	22.5		ug/m3		102	59 - 125
1,3-Dichlorobenzene	60	65.8		ug/m3		109	67 - 127
1,4-Dichlorobenzene	60	64.3		ug/m3		107	66 - 126
1,4-Dioxane	36	48.7	*	ug/m3		135	66 - 132
2,2,4-Trimethylpentane	47	53.6		ug/m3		115	67 - 127
2-Chlorotoluene	52	57.7		ug/m3		111	67 - 127
3-Chloropropene	31	29.4		ug/m3		94	53 - 133
4-Ethyltoluene	49	54.9		ug/m3		112	69 - 129
Acetone	24	24.1		ug/m3		101	64 - 136
Benzene	32	35.7		ug/m3		112	67 - 127
Bromodichloromethane	67	76.9		ug/m3		115	69 - 129
Bromoethene(Vinyl Bromide)	44	45.6		ug/m3		104	67 - 127
Bromoform	100	116		ug/m3		112	34 - 170
Bromomethane	39	41.2		ug/m3		106	68 - 128
Carbon disulfide	31	32.0		ug/m3		103	81 - 141
Carbon tetrachloride	63	69.7		ug/m3		111	62 - 143
Chlorobenzene	46	47.9		ug/m3		104	68 - 128
Chloroethane	26	27.2		ug/m3		103	65 - 125
Chloroform	49	45.7		ug/m3		94	69 - 129
Chloromethane	21	21.4		ug/m3		104	57 - 126
cis-1,2-Dichloroethene	40	41.2		ug/m3		104	67 - 127
cis-1,3-Dichloropropene	45	52.5		ug/m3		116	70 - 130
Cyclohexane	34	39.6		ug/m3		115	69 - 129
Dibromochloromethane	85	91.7		ug/m3		108	66 - 130
Dichlorodifluoromethane	49	52.5		ug/m3		106	68 - 128
Ethylbenzene	43	45.6		ug/m3		105	68 - 128
Freon TF	77	78.7		ug/m3		103	68 - 128
Hexachlorobutadiene	110	102		ug/m3		96	62 - 130
Isopropyl alcohol	25	29.1		ug/m3		119	55 - 124

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

Lab Sample ID: LCS 200-116683/3
Matrix: Air
Analysis Batch: 116683

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	87	91.8		ug/m3		106	68 - 128
Methyl Butyl Ketone (2-Hexanone)	41	50.4		ug/m3		123	61 - 127
Methyl Ethyl Ketone	29	30.3		ug/m3		103	62 - 122
methyl isobutyl ketone	41	51.7		ug/m3		126	62 - 130
Methyl tert-butyl ether	36	35.9		ug/m3		100	67 - 127
Methylene Chloride	35	34.7		ug/m3		100	62 - 122
n-Heptane	41	47.1		ug/m3		115	62 - 130
n-Hexane	35	33.6		ug/m3		95	71 - 131
Styrene	43	45.3		ug/m3		106	68 - 128
tert-Butyl alcohol	30	34.8		ug/m3		115	64 - 124
Tetrachloroethene	68	63.6		ug/m3		94	70 - 130
Tetrahydrofuran	29	35.1		ug/m3		119	61 - 136
Toluene	38	39.5		ug/m3		105	67 - 127
trans-1,2-Dichloroethene	40	39.8		ug/m3		100	72 - 132
trans-1,3-Dichloropropene	45	52.4		ug/m3		115	69 - 129
Trichloroethene	54	56.8		ug/m3		106	68 - 128
Trichlorofluoromethane	56	57.8		ug/m3		103	67 - 127
Vinyl chloride	26	26.1		ug/m3		102	62 - 125
Xylene, o-	43	45.6		ug/m3		105	67 - 127

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Air - GC/MS VOA

Analysis Batch: 116639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-38558-2	IA-1	Total/NA	Air	TO-15	
200-38558-4	IA-2	Total/NA	Air	TO-15	
200-38558-6	IA-3	Total/NA	Air	TO-15	
200-38558-7	OA-1	Total/NA	Air	TO-15	
MB 200-116639/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-116639/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 116680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-38558-1	SS-1	Total/NA	Air	TO-15	
200-38558-5	SS-3	Total/NA	Air	TO-15	
MB 200-116680/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-116680/4	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 116683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-38558-3	SS-2	Total/NA	Air	TO-15	
MB 200-116683/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-116683/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: SS-1
Lab Sample ID: 200-38558-1
Date Collected: 05/11/17 15:19
Matrix: Air
Date Received: 05/12/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5	116680	05/15/17 13:54	K1P	TAL BUR

Client Sample ID: IA-1
Lab Sample ID: 200-38558-2
Date Collected: 05/11/17 15:19
Matrix: Air
Date Received: 05/12/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	116639	05/13/17 05:26	K1P	TAL BUR

Client Sample ID: SS-2
Lab Sample ID: 200-38558-3
Date Collected: 05/11/17 15:22
Matrix: Air
Date Received: 05/12/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	116683	05/16/17 07:22	K1P	TAL BUR

Client Sample ID: IA-2
Lab Sample ID: 200-38558-4
Date Collected: 05/11/17 15:22
Matrix: Air
Date Received: 05/12/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	116639	05/13/17 06:19	K1P	TAL BUR

Client Sample ID: SS-3
Lab Sample ID: 200-38558-5
Date Collected: 05/11/17 15:30
Matrix: Air
Date Received: 05/12/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	116680	05/15/17 15:39	K1P	TAL BUR

Client Sample ID: IA-3
Lab Sample ID: 200-38558-6
Date Collected: 05/11/17 15:30
Matrix: Air
Date Received: 05/12/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	116639	05/13/17 07:11	K1P	TAL BUR

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Client Sample ID: OA-1
Date Collected: 05/11/17 15:25
Date Received: 05/12/17 10:30

Lab Sample ID: 200-38558-7
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	116639	05/13/17 08:04	K1P	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
TestAmerica Job ID: 200-38558-1
Project/Site: Benchmark - Buffalo Niagara Airport site

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-17 *
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-17 *
New York	NELAP	2	10391	04-01-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	10-31-17
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Buffalo Niagara Airport site

TestAmerica Job ID: 200-38558-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-38558-1	SS-1	Air	05/11/17 15:19	05/12/17 10:30
200-38558-2	IA-1	Air	05/11/17 15:19	05/12/17 10:30
200-38558-3	SS-2	Air	05/11/17 15:22	05/12/17 10:30
200-38558-4	IA-2	Air	05/11/17 15:22	05/12/17 10:30
200-38558-5	SS-3	Air	05/11/17 15:30	05/12/17 10:30
200-38558-6	IA-3	Air	05/11/17 15:30	05/12/17 10:30
200-38558-7	OA-1	Air	05/11/17 15:25	05/12/17 10:30

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Chris Boron	**Samples Collected By:** CC/CB	1 of 1 COCs
Company: Turnkey Environmental Restoration	Phone: (716) 856-0599		
Address: 2558 Hamburg Turnpike	Email: cboron@turnkeyllc.com		
City/State/Zip Buffalo NY 14218			
Phone: (716) 856-0599	Site Contact:		
FAX:	TA Contact: Brian Fischer		
Project Name: Buffalo Niagara Airport SV Sampling 2017	**Analysis Turnaround Time**		
Site: NFTA ARFF Facility	Standard (Specify) X (10-day TAT)		
PO # T0375-017-001	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SS-1	5/11/17	11:30	15:19	-30	-9	5241	2902	X											
IA-1	5/11/17	11:30	15:19	-27	-5	5188	5409	X											
SS-2	5/11/17	11:29	15:22	-29	-5	3991	5683	X											
IA-2	5/11/17	11:29	15:22	-30	-5	3859	5433	X											
SS-3	5/11/17	11:32	15:30	-30	-9	3575	6031	X											
IA-3	5/11/17	11:32	15:30	-30	-7	2835	5466	X											
OA-1	5/11/17	11:28	15:25	-30	-6	3613	2730	X											

Temperature (Fahrenheit)		
	Interior	Ambient
Start		53°F
Stop		61°F

Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop		

200-38558 Chain of Custody

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:	
Samples Relinquished by: Charlotte Clark	Date/Time: 5/11/17 16:30	Received by:	5/11/17 1630
Relinquished by:	Date/Time: 5/11/17 1700	Received by: TABLE	5/12/17 1030

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST , NY 14228
UNITED STATES US

SHIP DATE: 11MAY17
ACTWGT: 33.75 LB
CAD: 846654/CAFE3011

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF: BURLINGTON
DEPT: SAMPLE CONTROL

FedEx Express

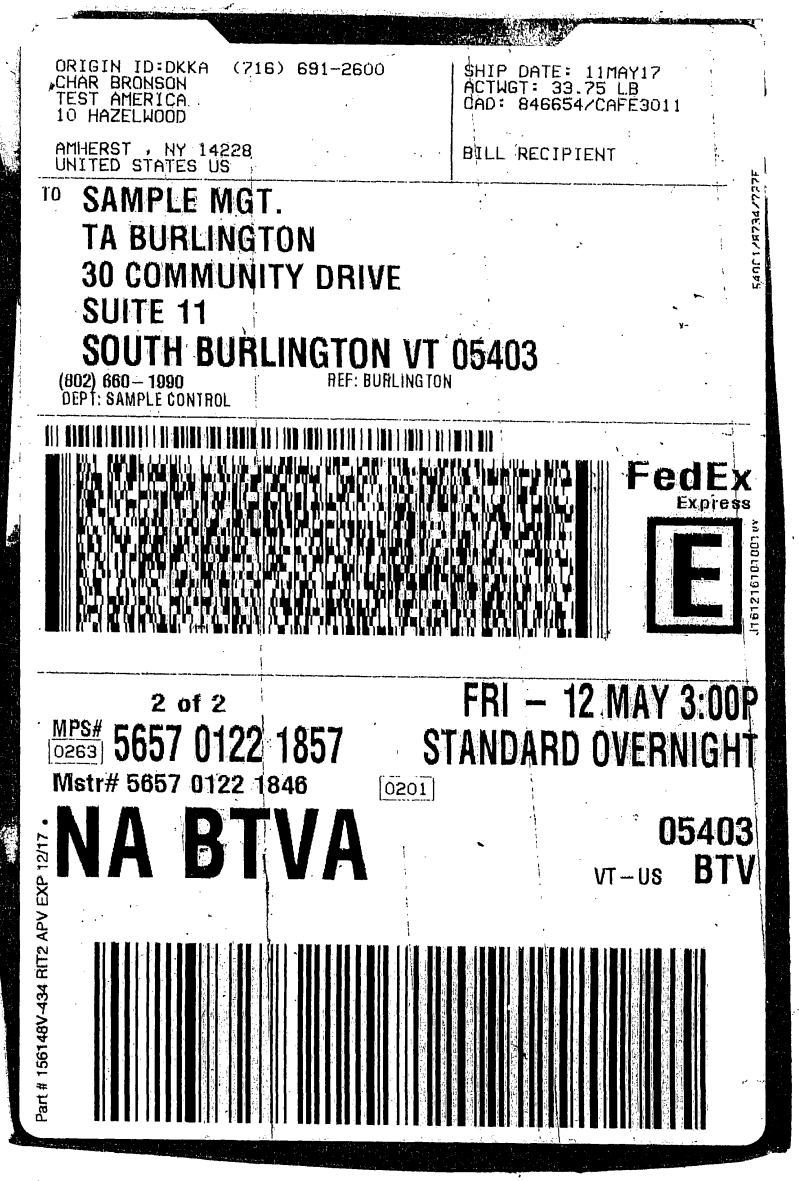
1 of 2
TRK# 0201 5657 0122 1846
MASTER

FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

NA BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 APV EXP 12/17 -



ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST , NY 14228
UNITED STATES US

SHIP DATE: 11MAY17
ACTWGT: 33.75 LB
CAD: 846654/CAFE3011

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF: BURLINGTON
DEPT: SAMPLE CONTROL

FedEx Express

2 of 2
MPS# 0263 5657 0122 1857
Mstr# 5657 0122 1846

FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

0201

NA BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 APV EXP 12/17 -

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 200-38558-1

Login Number: 38558
List Number: 1
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	859139,140
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.	True	
Sample Preservation Verified.	N/A	
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	

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 200-38558-1

Login Number: 38558
List Number: 2
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Oven 1/2	50	4/28/2017	SML	1L	6L	Batch	Individual

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adj. Initial[2] ("Hg)	Diff.[3]	Initial Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:
1	5112	-29.5	-29.0	-29.1	+0.1	G22	5/1/17	1245	←	29.4	22	G22	5/2/17	1450	←	29.0	22
2	5466		-29.1		Ø												
3	2902		-29.1		Ø												
4	2574																
5	2730		-29.1		Ø												
6	5683		-29.1		Ø												
7	3149		-29.1		Ø												
8	5409		-29.1		Ø												
9	5433		-29.1		Ø												
10	6031		-29.1		Ø												
11	3464	↓	-29.1	↓	Ø	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
12	5457	-29.4	-29.7	-29.8	+0.1	G22	5/3/17	1145	←	29.3	22	G22	5/4/17	1240	←	29.7	22

[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.

[2] Adjusted Initial Pressure = Initial Pressure + (Initial BP - Final BP).

[3] Difference = Final Pressure - Adjusted Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.5. (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 Signature:** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Review
5457	5/1/17	24943	WNO for PM		XXXX				5/2/17	WNO

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 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

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

Comments:

FAI023:04.13.16:9

TestAmerica Burlington

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5/23/2017

5/1/17

200-38400-A-12
5457
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/28/2017 12:00 AM 200-1034234

Loc: 200
38400
#12
A

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

Lab Name: TestAmerica Burlington Job No.: 200-38400-1

SDG No.:

Client Sample ID: 5457 Lab Sample ID: 200-38400-12

Matrix: Air Lab File ID: 24943-17.D

Analysis Method: TO-15 Date Collected: 04/28/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 05/02/2017 06:09

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 116264 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	0.040	U	0.040	0.040
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
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

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

Lab Name: TestAmerica Burlington Job No.: 200-38400-1

SDG No.:

Client Sample ID: 5457 Lab Sample ID: 200-38400-12

Matrix: Air Lab File ID: 24943-17.D

Analysis Method: TO-15 Date Collected: 04/28/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 05/02/2017 06:09

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 116264 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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
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

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

Lab Name: TestAmerica Burlington Job No.: 200-38400-1

SDG No.:

Client Sample ID: 5457 Lab Sample ID: 200-38400-12

Matrix: Air Lab File ID: 24943-17.D

Analysis Method: TO-15 Date Collected: 04/28/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 05/02/2017 06:09

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 116264 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
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

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20170501-24943.b\24943-17.D
Lims ID: 200-38400-A-12
Client ID: 5457
Sample Type: Client
Inject. Date: 02-May-2017 06:09:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0024943-017
Misc. Info.: 38400-12
Operator ID: wrd Instrument ID: CHB.i

Method: \\ChromNA\Burlington\ChromData\CHB.i\20170501-24943.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 02-May-2017 09:05:52 Calib Date: 27-Apr-2017 10:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHB.i\20170426-24878.b\24878-20.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desjardinsb Date: 02-May-2017 09:13:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.140				ND	
2 Dichlorodifluoromethane	85		3.199				ND	
3 Chlorodifluoromethane	51		3.231				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.417				ND	
5 Chloromethane	50		3.546				ND	
6 Butane	43		3.716				ND	
7 Vinyl chloride	62		3.754				ND	
8 Butadiene	54		3.823				ND	
10 Bromomethane	94		4.490				ND	
11 Chloroethane	64		4.725				ND	
13 Vinyl bromide	106		5.136				ND	
14 Trichlorofluoromethane	101		5.237				ND	
16 Ethanol	45		5.696				ND	
19 1,1,2-Trichloro-1,2,2-trif	101		6.262				ND	
20 1,1-Dichloroethene	96		6.337				ND	
21 Acetone	43		6.486				ND	
22 Isopropyl alcohol	45		6.705				ND	
23 Carbon disulfide	76		6.769				ND	
24 3-Chloro-1-propene	41		7.041				ND	
27 Methylene Chloride	49		7.297				ND	
28 2-Methyl-2-propanol	59		7.409				ND	
29 Methyl tert-butyl ether	73		7.650				ND	
30 trans-1,2-Dichloroethene	61		7.708				ND	
32 Hexane	57		8.034				ND	
33 1,1-Dichloroethane	63		8.450				ND	
34 Vinyl acetate	43		8.456				ND	
36 2-Butanone (MEK)	72		9.341				ND	
35 Ethyl acetate	88		9.352				ND	
37 cis-1,2-Dichloroethene	96		9.352				ND	
* 39 Chlorobromomethane	128	9.715	9.726	-0.011	73	315187	10.0	
38 Tetrahydrofuran	42		9.731				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Chloroform	83		9.795				ND	
S 41 1,2-Dichloroethene, Total	61		10.000				ND	
42 1,1,1-Trichloroethane	97		10.057				ND	
43 Cyclohexane	84		10.067				ND	
44 Carbon tetrachloride	117		10.259				ND	
45 Isooctane	57		10.542				ND	
46 Benzene	78		10.585				ND	
47 1,2-Dichloroethane	62		10.686				ND	
48 n-Heptane	43		10.793				ND	
* 50 1,4-Difluorobenzene	114	11.124	11.129	-0.005	92	1407449	10.0	
53 Trichloroethene	95		11.498				ND	
54 1,2-Dichloropropane	63		11.866				ND	
55 Methyl methacrylate	69		11.903				ND	
56 1,4-Dioxane	88		11.994				ND	
57 Dibromomethane	174		12.053				ND	
58 Dichlorobromomethane	83		12.223				ND	
60 cis-1,3-Dichloropropene	75		12.853				ND	
61 4-Methyl-2-pentanone (MIBK	43		12.997				ND	
64 Toluene	92		13.285				ND	
66 trans-1,3-Dichloropropene	75		13.643				ND	
67 1,1,2-Trichloroethane	83		13.915				ND	
68 Tetrachloroethene	166		14.059				ND	
69 2-Hexanone	43		14.177				ND	
70 Chlorodibromomethane	129		14.470				ND	
71 Ethylene Dibromide	107		14.673				ND	
* 72 Chlorobenzene-d5	117	15.233	15.233	0.000	81	1145817	10.0	
73 Chlorobenzene	112		15.271				ND	
74 Ethylbenzene	91		15.340				ND	
76 m-Xylene & p-Xylene	106		15.484				ND	
78 o-Xylene	106		15.997				ND	
S 77 Xylenes, Total	106		16.000				ND	
79 Styrene	104		16.023				ND	
80 Bromoform	173		16.317				ND	
81 Isopropylbenzene	105		16.408				ND	
83 1,1,2,2-Tetrachloroethane	83		16.818				ND	
84 N-Propylbenzene	91		16.888				ND	
87 4-Ethyltoluene	105		17.011				ND	
88 2-Chlorotoluene	91		17.053				ND	
89 1,3,5-Trimethylbenzene	105		17.080				ND	
91 tert-Butylbenzene	119		17.454				ND	
92 1,2,4-Trimethylbenzene	105		17.523				ND	
93 sec-Butylbenzene	105		17.715				ND	
94 4-Isopropyltoluene	119		17.864				ND	
95 1,3-Dichlorobenzene	146		17.945				ND	
96 1,4-Dichlorobenzene	146		18.057				ND	
97 Benzyl chloride	91		18.206				ND	
99 n-Butylbenzene	91		18.371				ND	
100 1,2-Dichlorobenzene	146		18.542				ND	
103 1,2,4-Trichlorobenzene	180		20.912				ND	
104 Hexachlorobutadiene	225		21.077				ND	
105 Naphthalene	128		21.392				ND	

Reagents:

ATTO15BISs_00006 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 02-May-2017 09:13:18 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20170501-24943.b\24943-17.D

Injection Date:	02-May-2017 06:09:30	Instrument ID:	CHB.i	Operator ID:	wrd
Lims ID:	200-38400-A-12	Lab Sample ID:	200-38400-12	Worklist Smp#:	17
Client ID:	5457				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	14
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

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