

**REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION REPORT
FOR THE
FOSSA AVE VI SITE
NASHUA, HILLSBOROUGH COUNTY, NEW HAMPSHIRE
9 JANUARY 2024, 17 THROUGH 19 JANUARY 2024,
AND 9 AND 10 JULY 2024**

Prepared For:

U.S. Environmental Protection Agency
Region I
Superfund and Emergency Management Division
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

CONTRACT NO. 68HE0120D0001

TASK ORDER NO. 68HE0120F0027

TO/AD NO.: TOFP-01-23-04-0003

TASK NO.: 0187

DC NO.: R-50795

Submitted By:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team
101 Billerica Avenue, Building 5, Suite 103
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September 2024

TABLE OF CONTENTS

- I. Preliminary Assessment/Site Investigation Forms
- II. Narrative Chronology
- III. Appendices
 - Appendix A - Figures
 - Appendix B - Tables
 - Appendix C - Photodocumentation Log
 - Appendix D - Analytical Data and Chain-of-Custody Record

I. Preliminary Assessment/Site Investigation Forms



**EPA REGION I
REMOVAL PRELIMINARY ASSESSMENT**

Site Name and Location

Name: Fossa Ave VI Site **Location:** 9 Fossa Avenue
Town: Nashua **County:** Hillsborough County **State:** New Hampshire

Site Status: ☐ NPL ☐ NON-NPL ☐ RCRA ☐ TSCA
 ☒ ACTIVE ☐ ABANDONED ☐ OTHER

(X) Attached USGS Map of Location **(X) Site I.D. No.:** 01RX

Latitude: 45° 45' 00.34" North **Longitude:** 71° 27' 40.56" West

Referral

☐ Citizen ☐ City/Town ☒ State ☐ Preremedial ☐ RCRA
☐ Other:

Name of referring party: New Hampshire Department of Environmental Services (NH DES)

Address: 29 Hazen Drive, Concord, NH **Telephone:** (603) 271-3503
03301

Contacts Identified

1) Tanya Justham	Telephone: (603) 271-6572
2) Amy Renzi	Telephone: (603) 271-6542
3) Scott Drew	Telephone: (603) 271-2890

Source of Information

☐ **Verbal:**

☒ **Report:** Exeter Environmental Associates, Inc. 2016. Phase I Environmental Assessment Report.
EBI Consulting Inc. July 2017. Focused Site Investigation.
EBI Consulting Inc. December 2017. Indoor Air Sampling and Vapor Intrusion Mitigation After Action Report.
EBI Consulting. 2019-2022. Proposed Schedule, Indoor Air Reports and Data, Nashua, NH.

☐ **Other:**

REMOVAL PRELIMINARY ASSESSMENT

Potential Responsible Parties

Owner:	Telephone:
Address:	
Operator:	Telephone:
Address:	

Site Access

Authorizing Person:	Lynn Lombardi, Executive Director Nashua Housing and Redevelopment Authority (Fossa Ave)		
Date:	16 June 2023	(X) Obtained	() Verbal
Telephone:	(603) 883-5661	() Not Obtained	(X) Written
Authorizing Person:	Private property owner (West Aids St)		
Date:	11 December 2023	(X) Obtained	() Verbal
Telephone:		() Not Obtained	(X) Written

Historical Preservation

() Site is Historically Significant or Eligible for Historic Preservation

Contacts Identified

1) State Historical Preservation Officer (SHPO)

Name: Mr. Benjamin Wilson **Telephone:** 603-271-8850

2) Tribal Historical Preservation Officer (THPO)

Name: **Telephone:**

Comments:

Physical Site Characterization

Background Information:

The Fossa Avenue Site (the Site) is located at 9 Fossa Avenue, Nashua, New Hampshire at 42° 45' 00.34" north latitude and 71° 27' 40.56" west longitude. The Site is an approximately 0.7-acre parcel containing two multi-unit residential apartment buildings and two multi-unit storage sheds. The buildings contain four residential units each for a total of eight apartments. The two-story apartment buildings are constructed on concrete slab-on-grade foundations with no basements and are serviced with natural gas, municipal water, and town sewer. The Site is located in a mixed residential and commercial neighborhood. Residential properties surround the Site to the north and east, Fossa Avenue is to the south, and Salmon Brook is to the west. An active gasoline station is located approximately 145 feet northeast of the Site at 337 Main Street.

The Site was undeveloped prior to approximately 1912. During the 1940s to mid-1970s, the property was developed by G.F. Fossa Steam Laundry. An underground gasoline storage tank,

REMOVAL PRELIMINARY ASSESSMENT

associated with the Site, was located on the east-central portion of the Site between 1949 and 1974. The building was vacant sometime in the late 1970s, and the two existing apartment buildings were constructed circa 1981.

During an assessment of the property at 337 Main Street by Terracon in 2012, chlorinated volatile organic compounds (CVOCs) were detected in the groundwater at concentrations exceeding their respective New Hampshire Department of Environmental Services (NHDES) groundwater quality standards. The CVOCs detected were typically associated with dry cleaning solvents and their breakdown products. Terracon concluded that the source of the CVOCs was from an off-site source, namely the former laundry business located on the subject property.

On 27 December 2016, an ASTM Phase I Environmental Site Assessment (ESA) of the Site was performed by Exeter Environmental Associates (EEA), with a site walkover, a limited metal detector survey, research into the site history, a review of available local and state records, and preparation of a report. EEA identified two recognized environmental conditions associated with the Site. Specifically, the property formerly contained an underground gasoline storage tank, and was historically used for laundry cleaning with the potential for on-site dry cleaning. No documentation regarding the tank closure or whether or not there was a release of gasoline from the underground tank was available.

On 19 April 2017, an ASTM Phase II ESA of the Site was performed by EnviroBusiness Inc. (EBI) Consulting, with six (6) 20-foot (or to refusal) soil borings completed as 1-inch-diameter polyvinyl chloride (PVC) monitoring wells installed in the three borings that encountered groundwater. Photoionization detector (PID) readings of the soil sample headspaces ranged from 8.5 to 200 parts per million (ppm). Of the six soil borings, four did not have any volatile organic compound (VOC) concentrations detected above laboratory detection limits; one had low concentrations of trichloroethene (TCE) and tetrachloroethene (PCE); and another had petroleum-related VOCs. All were below NHDES S-1 Soil Standards. The groundwater analysis detected concentrations of PCE at 430 micrograms/Liter ($\mu\text{g/L}$), TCE at 400 $\mu\text{g/L}$, and vinyl chloride at 34 $\mu\text{g/L}$.

On 26 July 2017, EBI Consulting conducted additional investigations and prepared a Focused Site Investigation Report to further evaluate environmental conditions at the Site. Three 20-foot soil borings were collected in the parking lot of the Site, in accordance with the location of detections found in previous testing, with soil samples collected every 5 feet, and with the vapor headspace screened with a PID. Permanent monitoring wells were constructed of 10-feet of 20-slot schedule 40 PVC well screen across the water table. Four other soil borings were attempted on the west side of the parking lot but did not continue due to shallow refusal of equipment. Three sub-slab vapor samples were collected from the boiler rooms of both 9 and 11 Fossa Avenue and the walkway in front of apartment 9D Fossa Avenue.

No elevated VOC readings were detected in any of the soil samples collected. The analytical results for the soil samples also indicated no concentrations of VOCs above laboratory detection limits.

The report concluded that the central portion of the Site was impacted with VOCs at concentrations above the NHDES GW-2 standards, likely from former dry-cleaning operations conducted at the

REMOVAL PRELIMINARY ASSESSMENT

property. The soil vapor below the boiler rooms and sidewalk in front of apartment 9D was also impacted with VOCs above the EPA Screening Levels.

A crawlspace was noted below 9 Fossa Avenue that could provide mitigation and circumvent the potential for vapor intrusion into the building. The other building, 11 Fossa Avenue, does not have this crawlspace.

Vapor intrusion mitigation activities sealing cracks or openings in the concrete slab and foundation walls within the crawlspace beneath the 9 Fossa Avenue building were performed from October 2017 to November 2017 by Nashua Housing Authority (NHA) personnel. This information is available in the EBI Consulting After-Action Report from December 2017 and the EBI Consulting Site Investigation Report from March 2018, which details the decrease in concentrations of contaminants to below NHDES Residential Indoor Air Screening Levels following the crawlspace mitigation activities.

Following the mitigation activities, multiple indoor air sampling events occurred from March 2019 through August 2023. The March 2019 sampling indicated TCE concentrations in the indoor air of the exterior crawlspace slightly above the NHDES Residential Indoor Air Screening Levels. EBI Consulting personnel also collected additional groundwater samples from the existing on-site monitoring wells for VOCs, as well as additional indoor air samples from both buildings on the Site and adjoining properties within 100 feet of GW-2, in accordance with the NHDES letter dated 3 August 2022.

In December 2022, EBI Consulting submitted a Remedial Design Plan developed for NHDES to address vapor intrusion from the crawl space beneath the building located at 9 Fossa Avenue. In April 2023, EBI Consulting submitted a Vapor Intrusion System Design Plan to NHDES which was designed and prepared by OBAR Systems, Inc. (OBAR), and in May 2023 NHDES accepted the plan. On 26 July 2023, OBAR installed the sub-membrane depressurization system (SMD) system within the exterior crawl space located beneath the 9 Fossa Avenue building. The SMD system was designed to depressurize the soil under the vapor barrier membrane by creating a vacuum beneath the liner, with the soil gases then drawn into the system piping, where the vapors would then be discharged to a safe location (above the roofline). In October 2023, EBI Consulting submitted the Vapor Intrusion Mitigation System Implementation Report to NHDES which included general system information, system start-up and commissioning data, post-installation testing results (August 2023), and Operations and Maintenance information.

In February 2024, EBI Consulting submitted a Bi-Annual Vapor Intrusion Mitigation System Status Report to NHDES, which included a system inspection to confirm the effectiveness of the SMD system and bi-annual indoor air sampling on the first floor of all four units within the 9 Fossa Avenue building (Units 9A through 9D). TCE was not detected at a concentration above laboratory reporting limits in any of the samples collected and analyzed, and the reporting limits were all below the NHDES Residential Indoor Air Screening Levels. PCE was detected at concentrations above laboratory reporting limits in all six samples collected and analyzed, but all were well below the NHDES Residential Indoor Air Screening Level of 8 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Description of Substances Possibly Present, Known or Alleged: VOCs, specifically the CVOCs PCE and TCE and their degradation products, dichloroethylene (DCE) and vinyl chloride (VC).

REMOVAL PRELIMINARY ASSESSMENT

Existing Analytical Data

() Real-Time Monitoring Data:

(X) Sampling Data:

EBI Consulting Inc. July 2017. Focused Site Investigation.

EBI Consulting Inc. December 2017. Indoor Air Sampling and Vapor Intrusion Mitigation After Action Report.

EBI Consulting Inc. 2019-2022. Proposed Schedule, Indoor Air Reports and Data, Nashua, NH. NH Department of Environmental Protection. 2017-2023. Summary Report GW IA Sampling, Nashua, NH. July.

EBI Consulting Inc. July 2023. Summary Report, Groundwater and Indoor Air Sampling 2022 and 2023.

EBI Consulting, Inc. February 2024. Bi-Annual Vapor Mitigation System Status Report.

Potential Threat

Description of potential hazards to environment and/or population-identify any of the criteria for a Removal Action (from NCP) that may be met by the site under 40 CFR 300.415 [b] [2].

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.
- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.
- vi. Threat of fire or explosion.
- vii. The availability of other appropriate federal or state response mechanisms to respond to the release.
- viii. Other situations or factors that may pose threats to public health or welfare or the environment.

REMOVAL PRELIMINARY ASSESSMENT

Prior Response Activities

☐ PRP ☐ STATE ☐ FEDERAL ☒ OTHER

Brief Description: During October and November 2017, NHA performed vapor mitigation activities, sealing cracks or openings in the concrete slab and foundation walls within the crawlspace beneath the 9 Fossa Avenue building. In July 2023, a Sub-Membrane Depressurization (SMD) System was installed in the crawlspace beneath the 9 Fossa Avenue building. The analytical results of sampling conducted after mitigation activities indicate a decrease in concentrations of contaminants to below NHDES Residential Indoor Air Screening Levels.

Priority for Site Investigation

☒ High ☐ Medium Low ☐ None ☐
Comments:

Report Generation

Originator:	Bonnie Mace	Date:	25 July 2024
Affiliation:	Weston Solutions, Inc. (START)	Telephone:	(978) 621-1202
Contract No.	68HE0120D0001	Contract Name:	START V
Task Order No.	68HE0120F0027	Task Order Name:	FP-CRT
AD No.:	TOFP-01-23-04-0003	Task No.:	0187



**EPA REGION I
REMOVAL SITE INVESTIGATION**

Inspection Information

Name: Fossa Ave VI Site **Location:** 9 Fossa Avenue
Town: Nashua **County:** Hillsborough County **State:** NH
Date of Inspection: 9 January 2024 **Time of Inspection:** 1000 hours
Weather Conditions: 26 degrees Fahrenheit (°F), Partly cloudy
Date of Inspection: 17 January 2024 **Time of Inspection:** 0830 hours
Weather Conditions: 25°F, Sunny
Date of Inspection: 18 January 2024 **Time of Inspection:** 0800 hours
Weather Conditions: 28 °F, Cloudy
Date of Inspection: 19 January 2024 **Time of Inspection:** 1130 hours
Weather Conditions: 28 °F, Cloudy and overcast
Date of Inspection: 9 July 2024 **Time of Inspection:** 0845 hours
Weather Conditions: 80 °F, Hazy and humid
Date of Inspection: 10 July 2024 **Time of Inspection:** 0815 hours
Weather Conditions: 85 °F, Hazy and humid
Site Status at Time of Inspection: ☒ **ACTIVE** ☐ **INACTIVE**
Comments: The Site contains two multi-unit residential buildings owned by the Nashua Housing and Redevelopment Authority.

Agencies/Personnel Performing Inspection

	<u>Names</u>	<u>Program</u>
(X) EPA:	Sherry Banks Abdine Ouedraogo Tyler Evans	U.S. Environmental Protection Agency (EPA) Region I, Emergency Planning and Response Branch (EPRB), On-Scene Coordinator (OSC).
(X) EPA Contractor:	Tara LePage Chris Dupree Bonnie Mace John Burton John F. Kelly Marina Kovalcin	Weston Solutions, Inc. (WESTON), Superfund Technical Assessment and Response Team V (START).

REMOVAL SITE INVESTIGATION

(X) **State:** Tanya Justham New Hampshire Department of
Amy Renzi Environmental Protection (NHDES).

Current Owner Based on Field Interview: Nashua Housing and Redevelopment Authority

Physical Site Characteristics

<u>Parameter</u>	<u>Quantities/Extent</u>
<input type="checkbox"/> Cylinders:	
<input type="checkbox"/> Drums:	
<input type="checkbox"/> Lagoons:	
<input type="checkbox"/> Tanks:	<input type="checkbox"/> Above:
	<input type="checkbox"/> Below:
<input type="checkbox"/> Asbestos:	
<input type="checkbox"/> Piles:	
<input type="checkbox"/> Stained Soil:	
<input type="checkbox"/> Sheens:	
<input type="checkbox"/> Stressed Vegetation:	
<input type="checkbox"/> Landfill:	
(X) Population in Vicinity:	The Site contains two multi-unit residential buildings and is located in a mixed residential and commercial neighborhood. Residential properties surround the Site to the north and east, Fossa Avenue is to the south, and Salmon Brook is to the west. An active gasoline station is located approximately 145 feet northeast of the Site at 337 Main Street.
(X) Wells:	<input type="checkbox"/> Drinking:
	(X) Monitoring: There are five groundwater monitoring wells on site.

Physical Site Observations

Comments: The Site is an approximately 0.7-parcel with two multi-unit residential apartment buildings and two multi-unit storage sheds. One of the two-story apartment buildings (11 Fossa Ave) is constructed on concrete slab-on-grade foundations with no basement, and the other building (9 Fossa Ave) features a crawlspace with approximately 3 feet of clearance. Attached boiler rooms are located on the ends of the two buildings. The property grounds were observed to consist primarily of paved walkways, grass lawns and landscaping, and paved parking areas around the buildings.

Field Sampling and Analysis

<u>Matrix</u>	Field Instrumentation Readings				
	CGI/O₂ (%)	RAD (μR/hr)	PID (ppm)	FID (ppm)	Other
Background:	0.0/20.9	12-15	0.0	--	--

REMOVAL SITE INVESTIGATION

Matrix	Field Instrumentation Readings				
	CGI/O₂ (%)	RAD (μR/hr)	PID (ppm)	FID (ppm)	Other
Air:	0.0/20.9	12-15	0.0	--	--
Soil:	0.0/20.9	12-15	0.0	--	--
Surface Water:					
Tanks:					
Drums:					
Vats:					
Lagoons:					
Spillage:					
Run Off:					
Piles:					
Sediments:					
Groundwater:	0.0/20.9	12-15	0.0	--	--
Other:					

CGI/O₂ (%) = Combustible Gas Indicator/Oxygen (percentage)
 PID = PhotoIonization Detector (parts per million)

RAD (μR/hr) = Radiation (microRoentgens per hour)
 FID (ppm) = Flame Ionization Detector (parts per million)

Field Quality Control Procedures

(X) SOP Followed

() Deviation from SOP

Comments: Sampling was conducted according to the site Sampling and Analysis Plan (SAP), prepared as a separate document entitled *Sampling and Analysis Plan for the Fossa Ave VI Site, Nashua, Hillsborough County, NH*, dated January 2024.

Description of Sampling Conducted

On 17 January 2024, START collected five groundwater samples (including one field duplicate) from four existing on-site monitoring wells, and four soil gas samples (including one field duplicate).

On 17 through 19 January 2024, START collected 16 indoor air samples (including two field duplicates) from properties P-1 through P-4.

On 18 January 2024, START collected three sub-slab soil gas samples (including one field duplicate) at properties P-1 and P-2.

On 19 January 2024, START collected three sub-slab soil gas samples (including one field duplicate) at properties P-3 and P-4.

On 22 January 2024, START delivered all groundwater, soil gas, sub-slab soil gas, and indoor air samples to EPA Laboratory Services and Applied Sciences Division (LSASD) New England Regional Laboratory (NERL) for volatile organic compound (VOC) analysis.

On 9 and 10 July 2024, START collected five indoor air samples (including one field duplicate) from property P-2.

On 10 July 2024, START collected four sub-slab soil gas samples (including one field duplicate) at property P-2.

On 10 July 2024, START delivered all sub-slab soil gas and indoor air samples to EPA LSASD NERL for VOC analysis.

REMOVAL SITE INVESTIGATION

Analyses		
Analytical Parameter	Media	Laboratory
<input checked="" type="checkbox"/> VOC	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> NERL
<input type="checkbox"/> PCB	<input checked="" type="checkbox"/> WATER	<input type="checkbox"/> CLP
<input type="checkbox"/> PESTICIDE	<input type="checkbox"/> SOIL	<input type="checkbox"/> PRIVATE
<input type="checkbox"/> METALS	<input type="checkbox"/> SOURCE	<input type="checkbox"/> DAS
<input type="checkbox"/> CYANIDE	<input type="checkbox"/> SEDIMENT	<input type="checkbox"/> SOW
<input type="checkbox"/> SVOC	<input checked="" type="checkbox"/> SOIL GAS	<input type="checkbox"/> FIELD
<input type="checkbox"/> TOXICITY		
<input type="checkbox"/> DIOXIN		
<input type="checkbox"/> ASBESTOS		
<input type="checkbox"/> OTHER		

Receptors	
	<u>Comments</u>
<input type="checkbox"/> Drinking Water: <input type="checkbox"/> Private: <input type="checkbox"/> Municipal:	
<input checked="" type="checkbox"/> Groundwater:	The Site has five groundwater monitoring wells.
<input checked="" type="checkbox"/> Unrestricted Access:	Access to the site is unrestricted.
<input checked="" type="checkbox"/> Population in Proximity:	The Site contains two multi-unit residential buildings and is located in a mixed residential and commercial neighborhood. Residential properties surround the Site to the north and east, Fossa Avenue is to the south, and Salmon Brook is to the west. An active gasoline station is located approximately 145 feet northeast of the Site at 337 Main Street.
<input checked="" type="checkbox"/> Sensitive Ecosystem:	There is a pond (part of Salmon Brook) directly west of the Site.
<input type="checkbox"/> Other:	

Additional Procedures for Site Determination		
<input type="checkbox"/> Biological Evaluation	<input type="checkbox"/> ATSDR	<input type="checkbox"/> None

To be determined by the On-Scene Coordinator (OSC).

Site Determination

Depending on further information, criteria that may be met by the site include 40 CFR 300.415 [b] [2], parts:

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.

REMOVAL SITE INVESTIGATION

- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.
- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.
- vi. Threat of fire or explosion.
- vii. The availability of other appropriate federal or state response mechanisms to respond to the release.
- viii. Other situations or factors that may pose threats to public health or welfare or the environment.

Report Generation

Originator:	Bonnie Mace	Date:	25 July 2024
Affiliation:	Weston Solutions, Inc. (START)	Telephone:	(978) 621-1202
Contract No.	68HE0120D0001	Contract Name:	START V
Task Order No.	68HE0120F0027	Task Order Name:	FP-CRT
AD No.:	TOFP-01-TOFP-01-23-04-0003	Task No.:	0187

II. Narrative Chronology

Narrative Chronology

Introduction

The Fossa Avenue VI Site (the Site) is located on Fossa Avenue, Nashua, New Hampshire at 42° 45' 00.34" north latitude and 71° 27' 40.56" west longitude (see Appendix A, Figure 1) [1]. The site is an approximately 0.7-acre parcel with two multi-unit residential apartment buildings and two multi-unit storage sheds. One of the two-story apartment buildings (11 Fossa Ave) is constructed on concrete slab-on-grade foundation with no basement, and the other building (9 Fossa Ave) features a crawlspace with approximately 3 feet of clearance. The apartment buildings are serviced with natural gas and municipal water and sewer. The Site is in a mixed residential and commercial neighborhood. Residential properties surround the Site to the north and east, Fossa Avenue is to the south, and Salmon Brook is to the west (see Appendix A, Figure 2) [2]. An active gasoline station is located approximately 145 feet northeast of the Site.

The Site was undeveloped prior to approximately 1912. During the 1940s to mid-1970s, the property was developed by G.F. Fossa Steam Laundry. An underground gasoline storage tank, associated with the site, was located on the east-central portion of the Site between 1949 and 1974. The building was vacant sometime in the late 1970s, and the two existing apartment buildings were constructed circa 1981 [3-5].

During an assessment of the property at 337 Main Street by Terracon in 2012, chlorinated volatile organic compounds (CVOCs) were detected in the groundwater at concentrations exceeding their respective New Hampshire Department of Environmental Services (NHDES) groundwater quality standards. The CVOCs detected were typically associated with dry cleaning solvents and their breakdown products. Terracon concluded that the source of the CVOCs was from an off-site source, namely the former laundry business located on the subject property [3].

On 27 December 2016, an ASTM Phase I Environmental Site Assessment (ESA) of the Site was performed by Exeter Environmental Associates (EEA), with a site walkover, a limited metal detector survey, research into the site history, a review of available local and state records, and preparation of a report. EEA identified two recognized environmental conditions associated with the Site. Specifically, the property formerly contained an underground gasoline storage tank, and was historically used for laundry cleaning with the potential for on-site dry cleaning. No documentation regarding the tank closure or whether or not there was a release of gasoline from the underground tank was available [3].

On 19 April 2017, an ASTM Phase II ESA of the Site was performed by EnviroBusiness Inc. (EBI) Consulting, with six (6) 20-foot (or to refusal) soil borings completed as 1-inch-diameter polyvinyl chloride (PVC) monitoring wells installed in the three borings that encountered groundwater. Photoionization detector (PID) readings of the soil sample headspaces ranged from 8.5 to 200 parts per million (ppm). Of the six soil borings, four did not have any volatile organic compound (VOC) concentrations detected above laboratory detection limits; one had low concentrations of trichloroethene (TCE) and tetrachloroethene (PCE); and another had petroleum-related VOCs. All were below NHDES S-1 Soil Standards. The groundwater analysis detected concentrations of PCE at 430 micrograms/Liter (µg/L), TCE at 400 µg/L, and vinyl chloride at 34 µg/L [4].

On 26 July 2017, EBI Consulting conducted additional investigations and prepared a Focused Site Investigation Report to further evaluate environmental conditions at the Site. Three 20-foot soil

borings were collected in the parking lot of the Site, in accordance with the location of detections found in previous testing, with soil samples collected every 5 feet, and with the vapor headspace screened with a PID. Permanent monitoring wells were constructed of 10-feet of 20-slot schedule 40 PVC well screen across the water table. Four other soil borings were attempted on the west side of the parking lot but did not continue due to shallow refusal of equipment. Three sub-slab vapor samples were collected from the boiler rooms of both 9 and 11 Fossa Avenue and the walkway in front of apartment 9D Fossa Avenue [4].

No elevated VOC readings were detected in any of the soil samples collected. The analytical results for the soil samples also indicated no concentrations of VOCs above laboratory detection limits [4].

Groundwater samples indicated detections of PCE and its breakdown products in all three of the permanent wells. All three wells showed detected concentrations of CVOCs. PCE was detected at 580 µg/L in MW-3, 12 µg/L in MW-1, and 31 µg/L in MW-2, compared to the New Hampshire Groundwater-2 (NH-GW-2) standard of 240 µg/L. TCE was detected at 48 µg/L in MW-1, 9.4 µg/L in MW-2, and 430 µg/L in MW-3, compared to the NH-GW-2 standard of 20 µg/L. Vinyl Chloride was detected at 24 µg/L in MW-1, ND µg/L in MW-2, and 30 µg/L in MW-3, compared to NH-GW-2 standard of 4 µg/L. Although there is no NH GW-2 standard for cis-1,2-Dichloroethylene, all three wells had detected concentrations, with 410 µg/L in MW-1, 10 µg/L in MW-2, and 480 µg/L in MW-3 [4].

The soil vapor analysis results indicated concentrations of chloroform, PCE, and TCE greater than the U.S. Environmental Protection Agency (EPA) Vapor Intrusion Soil Levels (VISL) Residential Screening Levels in at least two of the three samples collected. Chloroform was detected at 6.9 micrograms per cubic meter (µg/m³) in SV-1, 1.1 µg/m³ in SV-2, and 46 µg/m³ in SV-3, with two of the three exceeding the 4.1 µg/m³ Residential Screening Level. PCE was detected at 1,200 µg/m³ in SV-1, 710 µg/m³ in SV-2, and 25,000 µg/m³ in SV-3, with all three exceeding the 360 µg/m³ Residential Screening Level. TCE was detected at 20 µg/m³ in SV-1, 2.3 µg/m³ in SV-2, and 490 µg/m³ in SV-3, with two of the three exceeding the 8 µg/m³ Residential Screening Level [4].

From these results, the report concluded that the central portion of the Site was impacted with VOCs at concentrations above the NHDES GW-2 standards, likely from former dry-cleaning operations conducted at the property. The soil vapor below the boiler rooms and sidewalk in front of apartment 9D was also impacted with VOCs above the EPA Screening Levels [4].

A crawlspace was noted below 9 Fossa Avenue that could provide mitigation and circumvent the potential for vapor intrusion into the building. The other building, 11 Fossa Avenue, does not have this crawlspace.

Vapor intrusion mitigation activities sealing cracks or openings in the concrete slab and foundation walls within the crawlspace beneath the 9 Fossa Avenue building were performed from October 2017 to November 2017 by Nashua Housing Authority (NHA) personnel. This information is available in the EBI Consulting After-Action Report from December 2017 and the EBI Consulting Site Investigation Report from March 2018, which details the decrease in concentrations of contaminants to below NHDES Residential Indoor Air Screening Levels following the crawlspace mitigation activities [5-7].

Following the mitigation activities, multiple indoor air sampling events occurred from March 2019 through August 2023. The March 2019 sampling indicated TCE concentrations in the indoor air of the exterior crawlspace slightly above the NHDES Residential Indoor Air Screening Levels. EBI Consulting personnel also collected additional groundwater samples from the existing on-site monitoring wells for VOCs, as well as additional indoor air samples from both buildings on the Site and adjoining properties within 100 feet of GW-2, in accordance with the NHDES letter dated 3 August 2022 [8-10].

In December 2022, EBI Consulting submitted a Remedial Design Plan developed for NHDES to address vapor intrusion from the crawl space beneath the building located at 9 Fossa Avenue. In April 2023, EBI Consulting submitted a Vapor Intrusion System Design Plan to NHDES which was designed and prepared by OBAR Systems, Inc. (OBAR), and in May 2023 NHDES accepted the plan. On 26 July 2023, OBAR installed the sub-membrane depressurization system (SMD) system within the exterior crawl space located beneath the 9 Fossa Avenue building. The SMD system was designed to depressurize the soil under the vapor barrier membrane by creating a vacuum beneath the liner, with the soil gases then drawn into the system piping, where the vapors would then be discharged to a safe location (above the roofline). In October 2023, EBI Consulting submitted the Vapor Intrusion Mitigation System Implementation Report to NHDES which included general system information, system start-up and commissioning data, post-installation testing results (August 2023), and Operations and Maintenance information [11-15].

In February 2024, EBI Consulting submitted a Bi-Annual Vapor Intrusion Mitigation System Status Report to NHDES, which included a system inspection to confirm the effectiveness of the SMD system and bi-annual indoor air sampling on the first floor of all four units within the 9 Fossa Avenue building (Units 9A through 9D). TCE was not detected at a concentration above laboratory reporting limits in any of the samples collected and analyzed, and the reporting limits were all below the NHDES Residential Indoor Air Screening Levels. PCE was detected at concentrations above laboratory reporting limits in all six samples collected and analyzed, but all were well below the NHDES Residential Indoor Air Screening Level of 8 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) [16].

Site/Sampling Activity

On 9 January 2024, a site walk was conducted with EPA On-Scene Coordinators (OSCs) Sherry Banks and Abdine Ouedraogo; EPA Community Involvement Coordinators Aaron Shaheen and Dawn Tesorea; NHDES members Tonya Justham and Amy Renzi; Weston Solutions, Inc. Superfund Technical Assessment and Response Team (START) members Chris Dupree, Tara LePage, and Bonnie Mace; NHA representative Scott Costa; and adjacent property owner Gary Pelletier. Personnel discussed the site history and previous sampling activities at the Site and the adjacent property, and the potential for indoor air or vapor intrusion in the residential properties. All personnel discussed the upcoming sampling schedule for the residential units at the Site, properties P-1 and P-2, and the adjacent property, properties P-3 and P-4 (see Attachment A, Figure 3).

On 17 January 2024, START members LePage, Mace, Dupree, John Burton, John Kelly, and Marina Kovalcin mobilized to the Site to conduct indoor air, soil gas, sub-slab soil gas, and groundwater sampling activities. START personnel met with EPA OSC Banks and Tyler Evans. START member LePage and START personnel conducted the tailgate safety meeting and discussed site hazards. START personnel reviewed the Site Health and Safety Plan (HASP), entitled *Weston Solutions, Inc., Region 1 START V Health and Safety Plan (HASP) for Fossa Ave*

VI Site. Following the completion of the safety briefing, START member Kovalcin prepared the RAE Systems, Inc., MultiRAE multigas meter with oxygen (O₂), carbon monoxide (CO), hydrogen cyanide (HCN), lower explosive limit (LEL), and volatile organic compound (VOC) sensors [17]. Readings on the instrument were as follows: O₂ = 20.9%, CO = 0 ppm, HCN = 0 ppm, LEL = 0%, and VOC = 0 ppm. All personnel conducted a site walk of properties P-1 and P-2, noting the location of each monitoring well in the parking lot between the two properties.

START personnel deployed 24-hour Summas at three of the residential units on the first floor of property P-1 (P1A-1FKT/P1A-1FKTD, P1B-1FKT, and P1D-FKT); three of the residential units on the first floor of property P-2 (P2B-1FLR, P2C-1LKT, and P2D-1FKT); and a 24-hr Summa outside of property P2 (P2-OS) (see Attachment A, Figure 4A) [18].

Once the indoor air samples were deployed, START personnel conducted low-flow groundwater sampling at four monitoring wells on the P1/P2 property (MW-1 through MW-4). A sample was not collected from monitoring well MW-5 because it contained product (oil). START collected five groundwater samples, including one duplicate, from the on-site monitoring wells (MW-1 through MW-4, and MW-101). Groundwater samples were collected for VOC analysis [19].

START personnel followed the sampling protocols outlined in the Sampling and Analysis Plan (SAP), entitled *Sampling and Analysis for the Fossa Ave VI Site, Nashua, Hillsborough County, New Hampshire* [20].

In addition, START personnel advanced three soil gas sample locations (SG-01 through SG-03) on the southwestern portion of the Site, directly south of property P-1. START collected four soil gas samples, including one field duplicate, from the soil gas borings (SG-01 through SG-03, and SG-102) (see Appendix A, Figure 3) [21].

All samples were submitted to EPA Laboratory and Applied Sciences Division (LSASD), New England Regional Laboratory (NERL) located in North Chelmsford, Massachusetts for VOCs analyses.

On 18 January 2024, START personnel returned to the Site to complete indoor air sampling at properties P-1 and P-2. After the indoor air samples were completed, START installed a Vapor Pin sub-slab soil gas port in the utility room slab of each of the buildings. Personnel monitored the sub-slab air for VOCs using the PID, measured the pressure difference between the indoor air and sub-slab vapors, and collected a sub-slab soil gas sample in a 6-Liter Summa for VOC analysis (P1-SSG/P1-SSGD and P2-SSG) (see Attachment A, Figure 4A) [22].

In addition, START personnel deployed 24-hour Summas at two of the units in property P-3 on the first floor and one location in the basement of P-3 (P3W-1FLR, P3E-1FLR, and P3-BT); two of the units in property P-4 on the first floor and two locations in the basement of P-4 (P4N-1FLR, P4S-1FLR, P4N-BT, and P4S-BT); and a 24-hr Summa outside on property P4 (P4-OS).

On 19 January 2024, START personnel returned to the Site to complete indoor air sampling at properties P-3 and P-4. After the indoor air samples were completed, START installed a Vapor Pin sub-slab soil gas port in the basement slab of each of the buildings. Personnel monitored the sub-slab air for VOCs using the PID, measured the pressure difference between the indoor air and sub-slab vapors, and collected a sub-slab soil gas sample in a 6-Liter Summa for VOC analysis (P3-SSG/P3-SSGD and P4-SSG) (see Attachment A, Figure 4B).

All samples were submitted to EPA LSASD, NERL located in North Chelmsford, Massachusetts for VOCs analyses.

Throughout sampling activities, START personnel documented each canister and flow controller ID numbers, and the starting pressure. START also documented the start time of each sample location as the canisters were deployed, and photo-documented the deployment locations (see Appendix C, Photo-documentation Log). In addition, START personnel collected Global Positioning System (GPS) spatial location information for each sample location (see Appendix A, Figure 3) [23].

On 9 July 2024, START member Mace mobilized to the Site to conduct indoor air sampling activities. START Mace met with EPA OSC Ouedraogo upon arrival to the Site and proceeded to conduct the tailgate safety meeting. START personnel reviewed the Site HASP, entitled *Weston Solutions, Inc., Region 1 START V Health and Safety Plan (HASP) for Fossa Ave VI Site*. Following the completion of the safety briefing, START prepared the RAE Systems, Inc., MultiRAE multigas meter [8]. Readings on the instrument were as follows: O₂ = 20.9%, CO = 0 ppm, HCN = 0 ppm, LEL = 0%, and VOC = 0 ppm.

START personnel deployed 24-hour Summas at four of the residential units on the first floor of property P-2 (P2KA, P2KB-1FLR, P2KC-1FDR, P2KCDUP-1FDR, and P2KD-1FDR); and a 24-hr Summa outside of property P2 (P2-OS) (see Attachment A, Figure 4A) [18].

START personnel followed the sampling protocols outlined in the SAP, entitled *Sampling and Analysis for the Fossa Ave VI Site, Nashua, Hillsborough County, New Hampshire* [21].

On 10 July 2024, START member Mace and John Kelly returned to the Site to collect the 24-hour Summa canisters deployed at P-2. After the indoor air samples were completed, START installed a Vapor Pin sub-slab soil gas port in the basement slab of Unit B, C and D. Personnel monitored the sub-slab air for VOCs using the PID, measured the pressure difference between the indoor air and sub-slab vapors, and collected a sub-slab soil gas sample in a 6-Liter Summa for VOC analysis (P2KB-SSG, P2KC-SSG, P2KC-SSGD, and P2KD-SSG) (see Attachment A, Figure 4B).

All samples were submitted to EPA LSASD, NERL located in North Chelmsford, Massachusetts for VOCs analyses.

Throughout sampling activities, START personnel documented each canister and flow controller ID numbers, and the starting pressure. START also documented the start time of each sample location as the canisters were deployed, and photo-documented the deployment locations (see Appendix C, Photo-documentation Log). In addition, START personnel collected GPS spatial location information for each sample location (see Appendix A, Figure 3) [23].

Analytical Data Summaries

On 29 January 2024, START received the analytical results of the groundwater, soil gas, and sub-slab gas samples from LSASD. These data are summarized in Appendix B, Tables 1 and 2, and included in Appendix D [24-25].

On 6 February 2024, START received the analytical results of the indoor air samples from LSASD. These data are summarized in Appendix B, Table 2, and included in Appendix D [26].

On 23 July 2024, START received the analytical results of the indoor air and sub-slab gas samples from LSASD. These data are summarized in Appendix B, Table 2, and included in Appendix D [27-28].

Groundwater Sample Results

Four VOCs (cis-1,2-dichloroethylene, TCE, PCE, and vinyl chloride) were detected in the five groundwater samples that were submitted to LSASD for VOC analysis. In addition, three VOCs (TCE, PCE, and vinyl chloride) were detected in the groundwater samples above the applicable residential EPA VISL for groundwater (see Appendix B, Table 1) [24].

Indoor Air Results

A total of 25 VOCs were detected in the indoor air samples submitted to LSASD for VOC analysis. In addition, eight VOCs (1,3-Butadiene, Bromodichloromethane, Acrylonitrile, Chloroform, Benzene, Carbon Tetrachloride, 1,4-Dichlorobenzene, and Ethylbenzene) were detected above the EPA Residential Target Indoor Air Concentration (RIA) VISLs. None of the exceedances detected were for the contaminants of concern (see Appendix B, Table 2) [26-27].

Sub-Slab Vapor Sampling

A total of 16 VOCs were detected in the sub-slab soil gas samples submitted to LSASD for VOC analysis. In addition, four VOCs (Dichlorodifluoromethane, PCE, Benzene, and Ethylbenzene) were detected above EPA Residential Target Sub-slab Soil Gas (RSsSG) VISLs (see Appendix B, Table 2) [25; 28].

Soil Gas Results

A total of two VOCs were detected in the soil gas samples submitted to LSASD for VOC analysis. In addition, one VOC (PCE) was detected above EPA RSsSG VISLs (see Appendix B, Table 3) [25; 28].

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III. Appendices

Appendix A

Figures

- Figure 1 - Site Location Map
- Figure 2 - Site Diagram
- Figure 3 - Sample Location Map
- Figure 4A - Sample Location and Results Map Properties P1 and P2
- Figure 4B - Sample Location and Results Map Properties P3 and P4

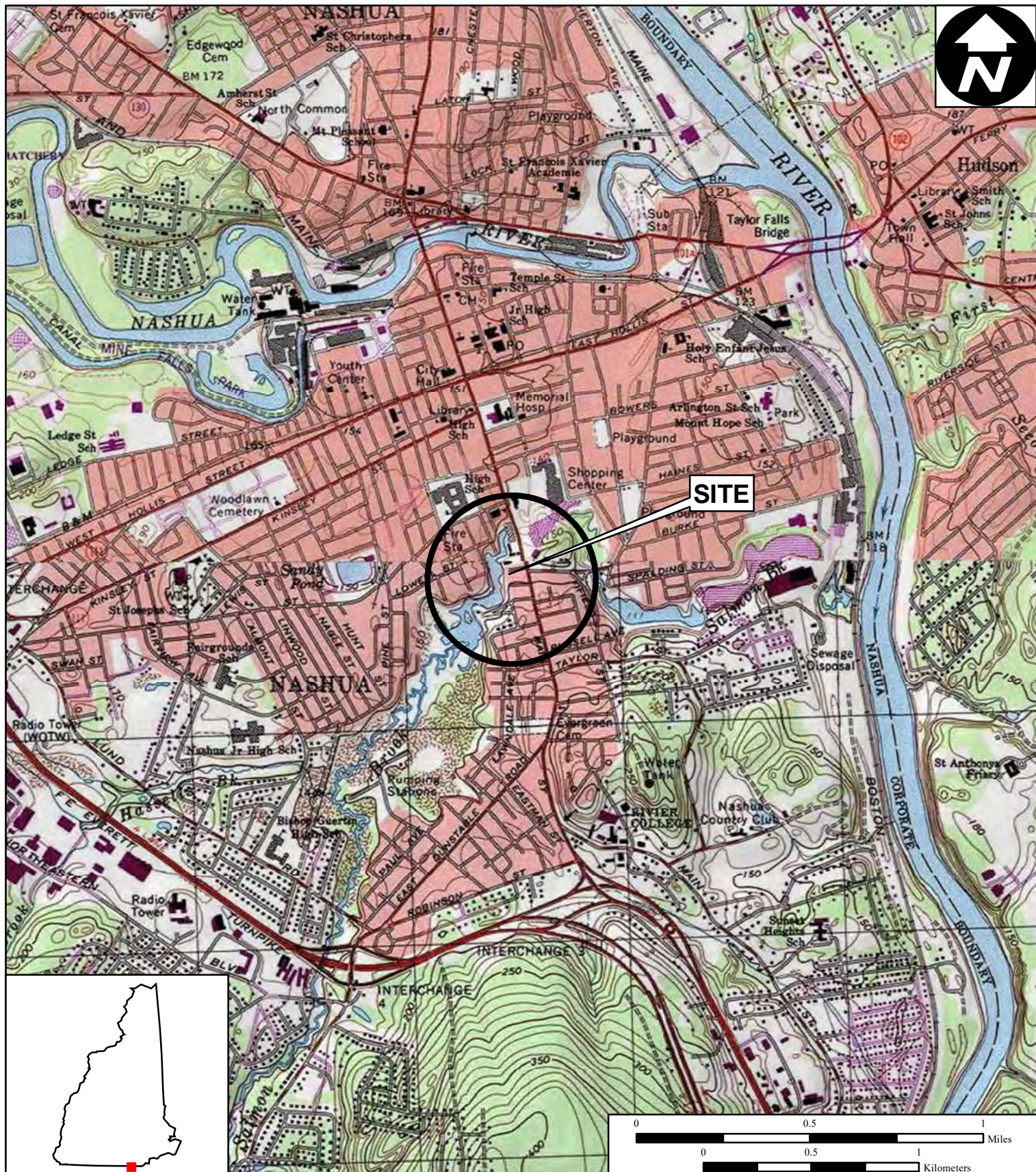


Figure 1

Site Location Map

**Fossa Ave VI Site
Fossa Avenue
Nashua, New Hampshire**

**EPA Region I
Superfund Technical Assessment and
Response Team (START) V
Contract No. 68HE0120D0001**

AD Number: TOFP-01-23-04-0003
Created by: C. Santarpio
Created on: 14 August 2023
Modified by: B. Mace
Modified on: 2 January 2024

Data Sources:

Topos: MicroPath/USGS/USA Topo Maps
Quadrangle Name: Nashua South, NH
All other data: START





Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Figure 2

Site Diagram

**Fossa Ave VI Site
Fossa Avenue
Nashua, New Hampshire**

EPA Region I

**Superfund Technical Assessment and
Response Team (START) V**

Contract No. 68HE0120D0001

TDD Number: TOFP-01-23-04-0003

Created by: C. Santarpio

Created on: 14 August 2023

Modified by: B. Mace

Modified on: 2 January 2024

LEGEND

☐ Approx Parcel Boundary

UST - Underground Storage Tank

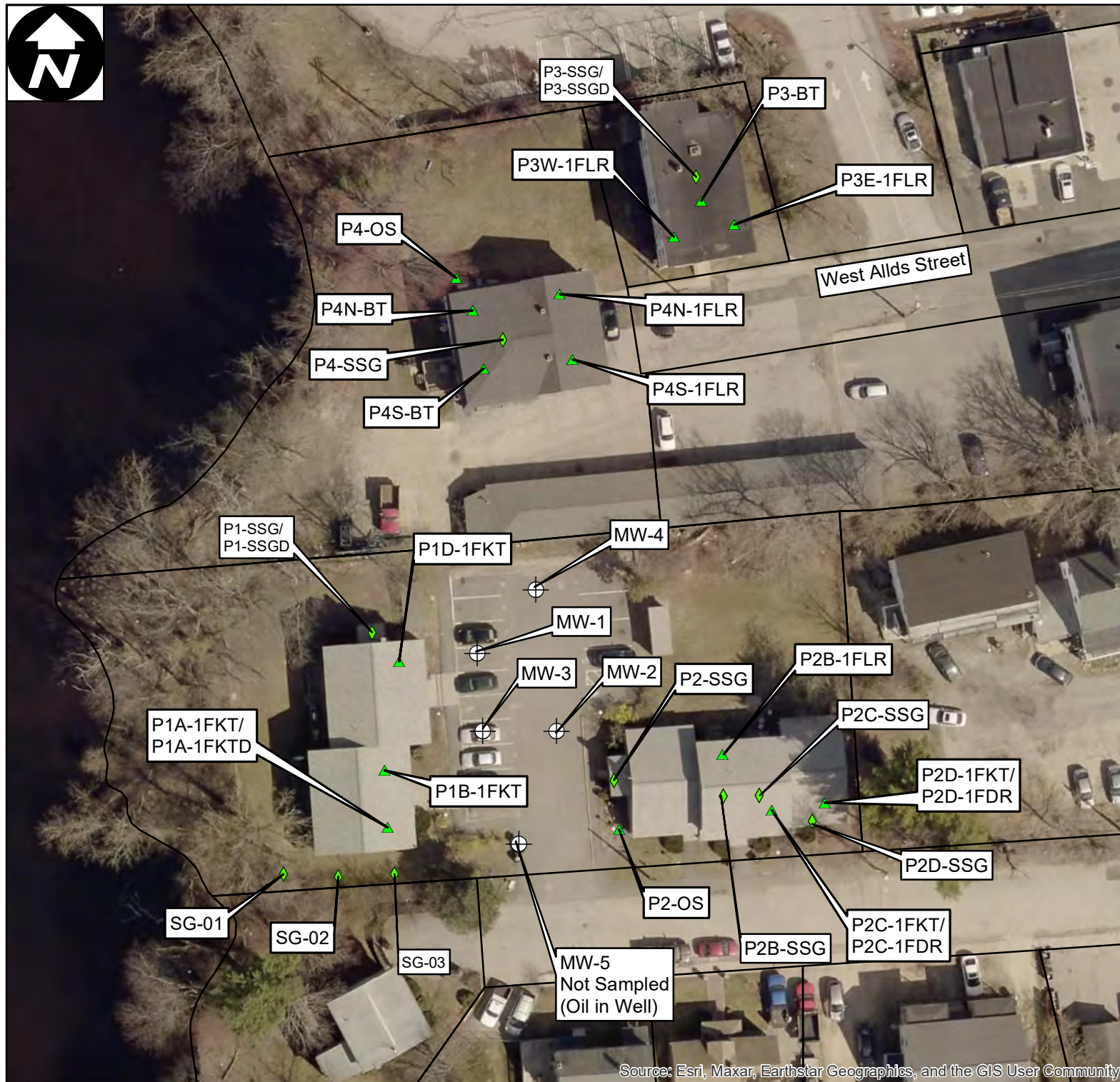
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Feet

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS,
AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath

All other data: START, City of Nashua GIS





Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Figure 3

Sample Location Map

Fossa Ave VI Site
Fossa Avenue
Nashua, New Hampshire

EPA Region I

**Superfund Technical Assessment and
Response Team (START) V**
Contract No. 68HE0120D0001

TDD Number: TOFP-01-23-04-0003

Created by: C. Santapio

Created on: 14 August 2023

Modified by: B. Mace

Modified on: 3 September 2024

LEGEND

□ Approx Parcel Boundary

▲ Indoor Air Samples

◆ Soil Gas Samples

⊕ MWs

MW = Monitoring Well

GW = Groundwater

IA = Indoor Air

SG = Soil Gas

SSG = Sub-slab Soil Gas



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS,
AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START, City of Nashua GIS



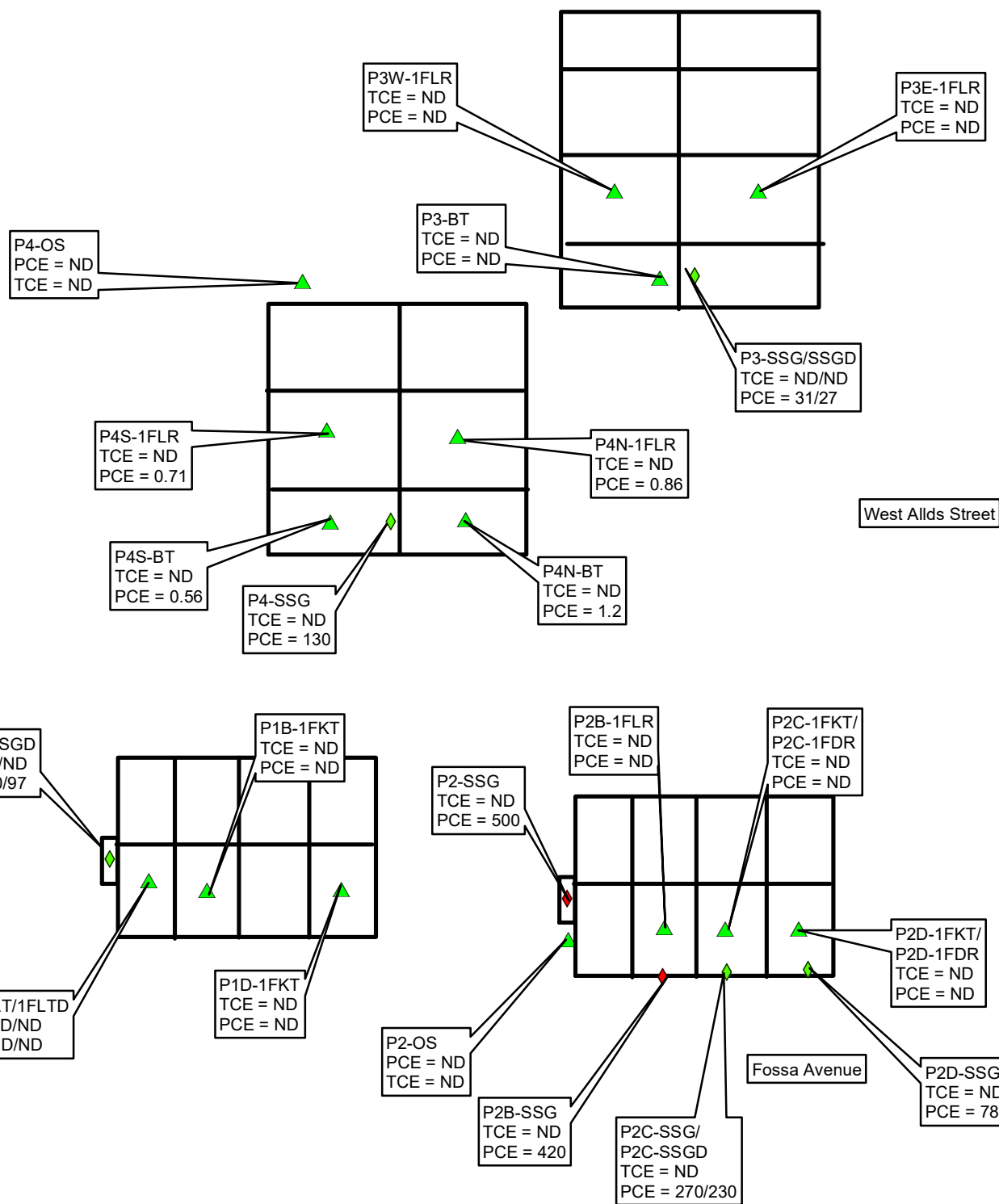


Figure 4

Sample Location and Results Map

Fossa Ave VI Site
Fossa Avenue
Nashua, New Hampshire

EPA Region I

**Superfund Technical Assessment and
Response Team (START) V**
Contract No. 68HE0120D0001

TDD Number: TOFP-01-23-04-0003

Created by: C. Santarpio

Created on: 14 August 2023

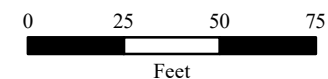
Modified by: B. Mace

Modified on: 3 September 2024

LEGEND

- Indoor Air Sample
- Sub-slab Soil Gas Sample
- Sample Location exceeding EPA VISLs

TCE = Trichloroethylene
PCE = Tetrachloroethylene
ND = Not Detected
All results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
Only basement and first floors sampled,
not second or third floors.
EPA VISLs = EPA Vapor Intrusion Screening
Levels.



Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS,
AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START, City of Nashua GIS





Property P1
Side View

Property P2
Side View

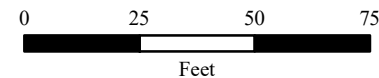
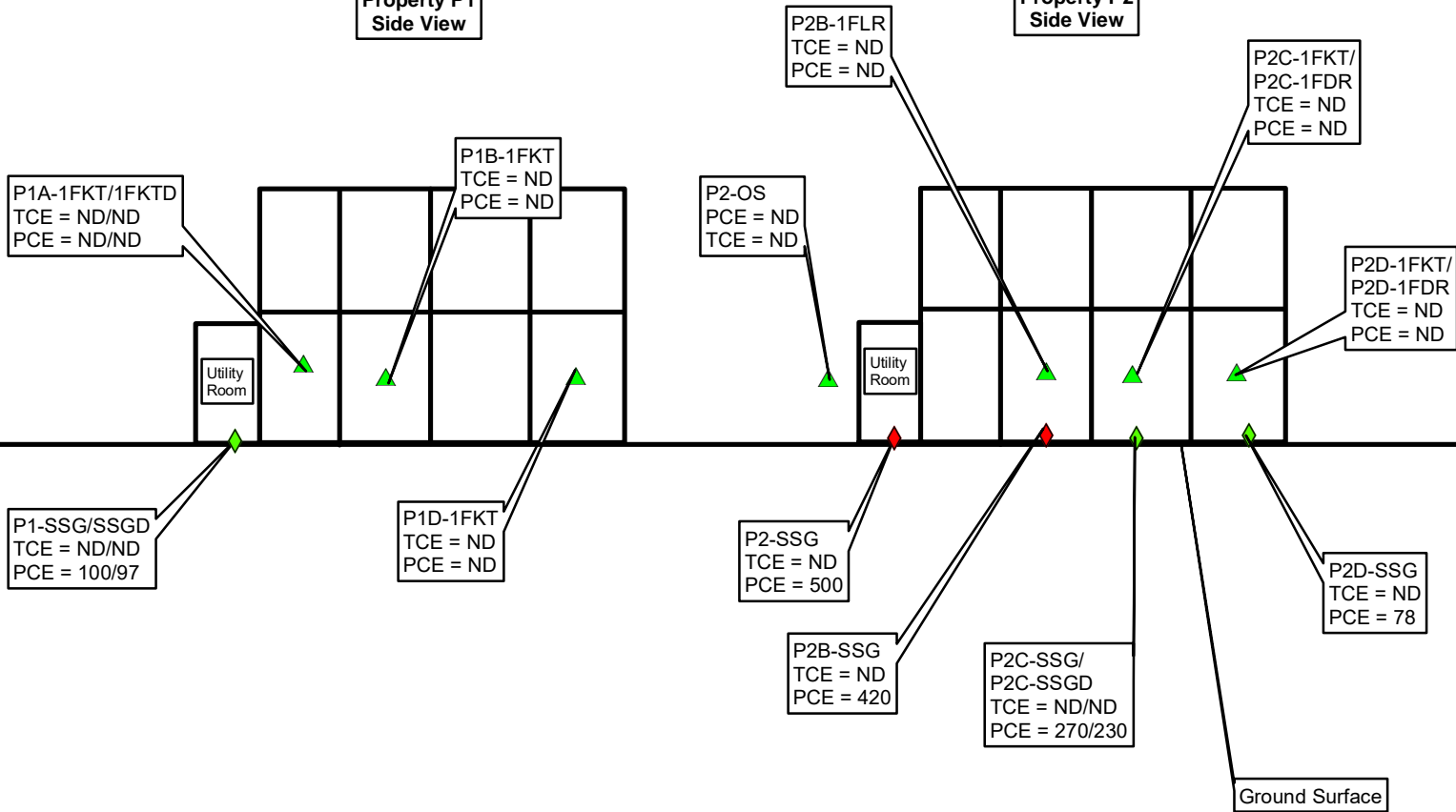


Figure 4A

**Sample Location and Results Map
Properties P1 and P2**

**Fossa Ave VI Site
Fossa Avenue
Nashua, New Hampshire**

EPA Region I

**Superfund Technical Assessment and
Response Team (START) V**

Contract No. 68HE0120D0001

TDD Number: TOFP-01-23-04-0003

Created by: C. Santarpio

Created on: 14 August 2023

Modified by: B. Mace

Modified on: 3 September 2024

LEGEND

- ▲ Indoor Air Sample
- ◆ Sub-slab Soil Gas Sample
- ◆ Sample Location exceeding EPA VISLs

TCE = Trichloroethylene
PCE = Tetrachloroethylene
ND = Not Detected
All results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Only basement and first floors sampled,
not second or third floors.

P1 = Property 1

P2 = Property 2

1F = 1st Floor

LR = Living Room

KT = Kitchen

OS = Outside

SSG = Sub-slab Soil Gas

D = Duplicate sample

EPA VISLs = EPA Vapor Intrusion Screening Levels.

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS,
AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START, City of Nashua GIS



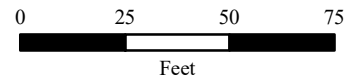
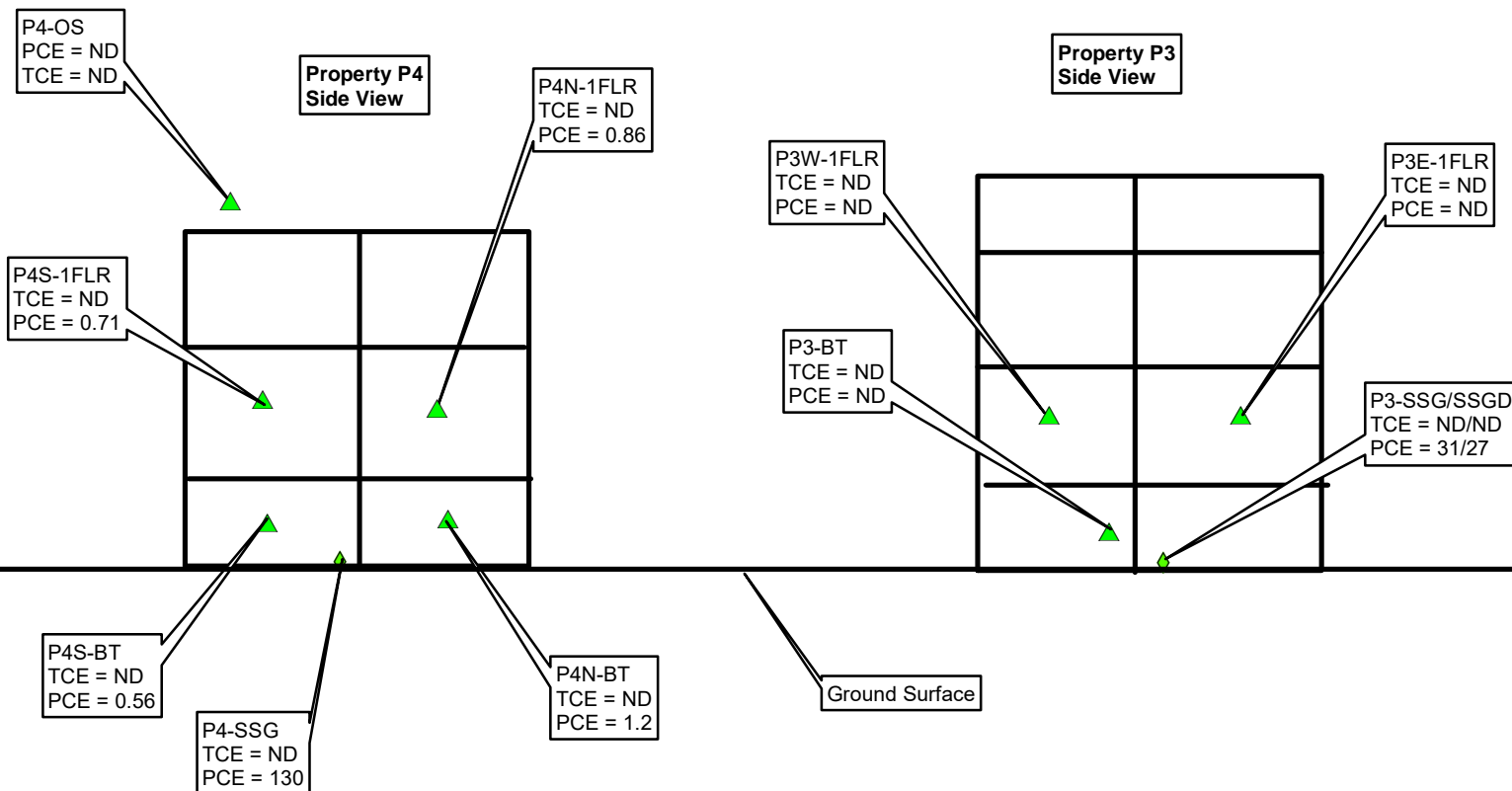


Figure 4B

**Sample Location and Results Map
Properties P3 and P4**

**Fossa Ave VI Site
Fossa Avenue
Nashua, New Hampshire**

EPA Region I

**Superfund Technical Assessment and
Response Team (START) V**

Contract No. 68HE0120D0001

TDD Number: TOFP-01-23-04-0003

Created by: C. Santarpio

Created on: 14 August 2023

Modified by: B. Mace

Modified on: 30 April 2024

LEGEND

- ▲ Indoor Air Sample
- ◆ Sub-slab Soil Gas Sample

TCE = Trichloroethylene
PCE = Tetrachloroethylene
ND = Not Detected
All results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
Only basement and first floors sampled, not second or third floors.
P3 = Property 3
P4 = Property 4
1F = 1st Floor
LR = Living Room
BT = Basement
OS = Outside
SSG = Sub-slab Soil Gas
D = Duplicate sample

Data Sources:

Imagery: ESRI, i-cubed, USDA FSA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGP
Topos: MicroPath
All other data: START, City of Nashua GIS



Appendix B

Tables

Table 1	-	Summary of Groundwater Sample Results
Table 2	-	Summary of Indoor Air and Sub-slab Soil Gas Sample Results
Table 3	-	Summary of Soil Gas Sample Results

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17 JANUARY 2024

LABORATORY NUMBER: SAMPLE LOCATION/WELL ID: SAMPLE NUMBER: SAMPLE DATE:			AC11119 MW-1 S50187NH-0001 1/17/2024	AC11120 MW-2 S50187NH-0002 1/17/2024	AC11121 MW-3 S50187NH-0003 1/17/2024	AC11122 MW-4 S50187NH-0004 1/17/2024	AC11123 MW-101 S50187NH-0005 1/17/2024 Duplicate of MW-1
COMPOUND	EPA RGW VISL HQ = 1/TR = 10 ⁻⁶	EPA RGW VISL HQ = 3/TR = 10 ⁻⁴					
VOLATILE ORGANIC COMPOUNDS (VOCs)	µg/L		µg/L				
Vinyl Chloride	0.147	14.7	19	ND	8.9	ND	20
1,1-Dichloroethylene (DCE)	195	586	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	109	326	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	NL	NL	69	5.1	200	480	66
Trichloroethylene (TCE)	1.19	15.5	ND	4.9	20	81	ND
Tetrachloroethylene (PCE)	14.9	173	3.0	29	88	63	2.5

ANALYTICAL METHODS

Samples analyzed by U.S. EPA New England Regional Laboratory
Laboratory Services and Applied Sciences Division (NERL/LSASD) as follows:
VOCs: EPA Region I SOP, LSBSOP-VOAGCMS12, VOAs in Water.
NERL/LSASD Laboratory Report, dated 25 January 2024, Project No. 24010010.

NOTES:

- 1) µg/L = micrograms per Liter
- 2) ND = Not Detected.
- 3) NL = Not Listed.
- 4) RGW = Residential Target Groundwater Concentration.
- 5) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 1 (HQ = 1), Target Risk = 10⁻⁶ (TR = 10⁻⁶).
- 6) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 3 (HQ = 3), Target Risk = 10⁻⁴ (TR = 10⁻⁴).
- 7) Bolded results highlighted in YELLOW exceed the applicable EPA VISLs (HQ = 1, TR = 10⁻⁶).
- 8) Bolded results highlighted in ORANGE exceed the applicable EPA VISLs (HQ = 3, TR = 10⁻⁴).
- 9) An analyte is only shown in the table above if it was detected in at least one sample OR if it is a contaminant of potential concern (COPC).
- 10) Contaminants of potential concern (COPC) are highlighted in BLUE.

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:					Property P1			
SAMPLE TYPE:					INDOOR AIR			
LABORATORY NUMBER: SAMPLE LOCATION: SAMPLE NUMBER: CANISTER NO. SAMPLE DATE:					AC11141	AC11142	AC11144	AC11147
					P1A-1FKT	P1A-1FKTD	P1B-1FKT	P1D-1FKT
					S50187NH-0009	S50187NH-0010	S50187NH-0012	S50187NH-0019
					14898	12568	5810	12571
					1/17/2024	1/17/2024	1/17/2024	1/17/2024
COMPOUND		EPA RIA VISLs		24-hour, First Floor	24-hour, First Floor	24-hour, First Floor	24-hour, First Floor	
		HQ = 1/TR = 10 ⁻⁶	HQ = 3/TR = 10 ⁻⁴					
VOLATILE ORGANIC COMPOUNDS (VOC):					µg/m ³			
Dichlorodifluoromethane	104	NC	313	NC	2.5	ND	ND	2.4
MethylChloride (chloromethane)	93.9	NC	282	NC	ND	ND	1.4	1.2
Vinyl Chloride	0.168	C	16.8	C	ND	ND	ND	ND
1,3-Butadiene	0.0936	C	6.26	NC	ND	ND	ND	ND
Bromodichloromethane	0	C	8	C	ND	ND	ND	ND
Trichlorofluoromethane	NL		NL		1.2	1.3	1.2	1.3
Acrylonitrile	0.041	C	4.13	C	ND	ND	ND	ND
1,1-Dichloroethylene (DCE)	209	NC	626	NC	ND	ND	ND	ND
Methylene Chloride	101	C	1,880	NC	ND	ND	ND	ND
trans-1,2-Dichloroethylene	41.7	NC	125	NC	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)	5,210	NC	15,600	NC	0.55	0.44	0.25	0.65
cis-1,2-Dichloroethylene	NL		NL		ND	ND	ND	ND
Hexane	730	NC	2,190	NC	0.68	3.9	0.75	0.50
Chloroform	0.122	C	12.2	C	1.5	1.8	1.1	0.53
Tetrahydrofuran	2,090	NC	6,260		ND	ND	ND	ND
Benzene	0.36	C	36	C	0.69	1.6	0.91	0.63
Carbon Tetrachloride	0.468	C	46.8	C	ND	ND	ND	ND
Cyclohexane	6,260	NC	18,800	NC	ND	1.7	ND	0.29
Trichloroethylene (TCE)	0.478	C	6.26	NC	ND	ND	ND	ND
Heptane	417	NC	1,250	NC	ND	1.0	ND	ND
Methyl Isobutyl Ketone (MIBK)	3,130	NC	9,390	NC	ND	ND	ND	ND
Toluene	5,210	NC	15,600	NC	2.1	5.9	3.3	1.3
Tetrachloroethylene (PCE)	10.8	C	125	NC	ND	ND	ND	ND
1,4-Dichlorobenzene	0.3	C	26	C	ND	ND	ND	ND
Ethylbenzene	1.12	C	112	C	ND	0.80	0.30	ND
m/p-Xylenes	104	NC	313	NC	0.84	2.2	0.88	0.75
Styrene	1,040	NC	3,130	NC	ND	ND	0.29	ND
o-Xylene	104	NC	313	NC	ND	0.75	0.31	ND
4-Ethyltoluene	NL		NL		ND	ND	ND	ND
1,2,4-Trimethylbenzene	62.6	NC	188	NC	ND	ND	ND	ND
Inventory Items of Concern:					None Observed.			

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:			Property P1			
SAMPLE TYPE:			SUB-SLAB SOIL GAS SAMPLES			
LABORATORY NUMBER:				AC11136	AC11134	
SAMPLE LOCATION:				P1-SSG	P1-SSGD	
SAMPLE NUMBER:				S50187NH-0020	S50187NH-0018	
CANISTER NO.				20845	13499	
SAMPLE DATE:				1/18/2024	1/18/2024	
COMPOUND	EPA RSsSG VISL HQ = 1/TR = 10 ⁻⁶	EPA RSsSG VISL HQ = 3/TR = 10 ⁻⁴		Sub-Slab Soil Gas Grab	Sub-Slab Soil Gas Duplicate	
VOLATILE ORGANIC COMPOUNDS (VOC)			µg/m ³			
Dichlorodifluoromethane	3,480	10,400		ND	ND	
Vinyl Chloride	5.59	559		ND	ND	
Trichlorofluoromethane	NL	NL		ND	ND	
1,1-Dichloroethylene (DCE)	6,950	20,900		ND	ND	
trans-1,2-Dichloroethylene	1,390	4,170		ND	ND	
Methyl Ethyl Ketone (2-Butanone)	174,000	521,000		ND	ND	
cis-1,2-Dichloroethylene	NL	NL		ND	ND	
Hexane	24,300	73,000		ND	ND	
Benzene	12	1,200		ND	ND	
Cyclohexane	209,000	626,000		ND	ND	
Trichloroethylene (TCE)	15.9	209		ND	ND	
Heptane	13,900	41,700		ND	ND	
Methyl Isobutyl Ketone (MIBK)	104,000	313,000		ND	ND	
Toluene	174,000	521,000		ND	ND	
Tetrachloroethylene (PCE)	360	4,170		100	97	
Ethylbenzene	37.4	3,740		ND	ND	
m/p-Xylenes	3,480	10,400		ND	ND	
o-Xylene	3,480	10,400		ND	ND	
4-Ethyltoluene	NL	NL		ND	ND	
1,3,5-Trimethylbenzene	2,090	6,260		ND	ND	
1,2,4-Trimethylbenzene	2,090	6,260		ND	ND	
Sub-Slab Pressure Differential (inches of Water column)				0.001	0.001	
Basement Walls:						
Basement Floor:			Crawl space consists of concrete flooring and cinderblock/concrete foundation walls, which were sealed with vapor barrier.			

ANALYTICAL METHODS

Samples analyzed by U.S. EPA New England Regional Laboratory (NERL)
Laboratory Services and Applied Science Division (NERL/LSAD).
Project Report No.s 24010012 and 24010013, Air Toxics by GC/MS

COPC METHOD DETECTION LIMITS [*"non-detect"* values]

Vinyl Chloride = 0.13 µg/m³
1,1-DCE = 0.20 µg/m³
T-1,2-DCE = 0.20 µg/m³
C-1,2-DCE = 0.20 µg/m³
TCE = 0.27 µg/m³
PCE = 0.34 µg/m³

NOTES:

- 1) µg/m³ = micrograms per cubic meter
- 2) All Results were reported in µg/m³.
- 3) ND = Not Detected.
- 4) NL = Not Listed.
- 5) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 1 (HQ = 1), Target Risk = 10-6 (TR = 10-6).
- 6) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 3 (HQ = 3), Target Risk = 10-4 (TR = 10-4).
- 7) RIA = Residential Target Indoor Air Concentration.
- 8) C/NC = Cancer or Non-Cancer toxicity basis of the Target RIA, if designated.
- 9) RSsSG = Residential Target Sub-slab Soil Gas Concentration.
- 10) Bolded results highlighted in YELLOW exceed the applicable EPA VISLs (HQ = 1, TR = 10-6).
- 11) Bolded results highlighted in ORANGE exceed the applicable EPA VISLs (HQ = 3, TR = 10⁻⁴).
- 12) An analyte is only shown in the table above if it was detected in at least one sample OR if it is a contaminant of potential concern (COPC). Non-COPC analytes that were not detected in any samples are not shown.
- 13) Contaminants of potential concern (COPC) are highlighted in BLUE.
- 14) A negative (-) sub-slab pressure differential (Pdiff) indicates a higher (positive) pressure in the indoor air; therefore, flow would move from indoor air down through the slab. Conversely, a positive (+) sub-slab Pdiff indicates that sub-slab vapors would be drawn into the building, from the higher pressure below the slab into the lower-pressure indoor air.

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:					Property P2						
SAMPLE TYPE:					INDOOR AIR						
LABORATORY NUMBER:					AC11140	AC14207	AC11143	AC14208	AC14210	AC11145	AC14209
SAMPLE LOCATION:					P2B-1FLR	P2B-1FLR	P2C-1FKT	P2C-1FDR	P2C-1FDRD	P2D-1FKT	P2D-1FDR
SAMPLE NUMBER:					S50187NH-0008	S50187NH-0034	S50187NH-0011	S50187NH-0035	S50187NH-0037	S50187NH-0013	S50187NH-0036
CANISTER NO.					22693	4743	13489	22105	5792	12565	13500
SAMPLE DATE:					1/17/2024	7/10/2024	1/17/2024	7/10/2024	7/10/2024	1/17/2024	7/10/2024
COMPOUND		EPA RIA VISLs		EPA RIA VISLs		24-hour, First Floor	24-hour, First Floor	24-hour, First Floor	24-hour, First Floor	24-hour, First Floor	24-hour, First Floor
		HQ = 1/TR = 10 ⁻⁶		HQ = 3/TR = 10 ⁻⁴						Duplicate	
VOLATILE ORGANIC COMPOUNDS (VOC)					µg/m ³						
Dichlorodifluoromethane	104	NC	313	NC	4.4	3.8	4.6	2.7	2.0	7.3	3.5
MethylChloride (chloromethane)	93.9	NC	282	NC	2.1	1.7	1.3	2.8	2.5	1.9	ND
Vinyl Chloride	0.168	C	16.8	C	ND	ND	ND	ND	ND	ND	ND
1,3-Butadiene	0.0936	C	6.26	NC	0.47	ND	ND	0.94	ND	ND	ND
Bromodichloromethane	0	C	8	C	ND	ND	ND	1.1	ND	ND	ND
Trichlorofluoromethane	NL		NL		1.2	1.5	1.1	1.5	ND	1.1	1.1
Acrylonitrile	0.041	C	4.13	C	4.2	ND	ND	0.45	ND	ND	ND
1,1-Dichloroethylene (DCE)	209	NC	626	NC	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	101	C	1,880	NC	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	41.7	NC	125	NC	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)	5,210	NC	15,600	NC	1.1	2.7	0.47	3.4	1.5	1.7	2.1
cis-1,2-Dichloroethylene	NL		NL		ND	ND	ND	ND	ND	ND	ND
Hexane	730	NC	2,190	NC	0.40	0.46	1.5	0.64	7.3	0.69	0.54
Chloroform	0.122	C	12.2	C	3.2	ND	3.8	3.4	ND	16	ND
Tetrahydrofuran	2,090	NC	6,260		ND	0.32	ND	0.57	ND	0.83	0.32
Benzene	0.36	C	36	C	1.3	0.59	1.0	1.2	1.5	0.69	0.53
Carbon Tetrachloride	0.468	C	46.8	C	ND	ND	ND	ND	ND	ND	0.55
Cyclohexane	6,260	NC	18,800	NC	ND	ND	0.69	5.3	ND	ND	ND
Trichloroethylene (TCE)	0.478	C	6.26	NC	ND	ND	ND	ND	ND	ND	ND
Heptane	417	NC	1,250	NC	ND	0.23	0.48	0.29	ND	ND	0.22
Methyl Isobutyl Ketone (MIBK)	3,130	NC	9,390	NC	ND	ND	ND	ND	ND	ND	0.19
Toluene	5,210	NC	15,600	NC	2.4	2.0	3.2	3.2	4.2	2.5	2.1
Tetrachloroethylene (PCE)	10.8	C	125	NC	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.3	C	26	C	0.51	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.12	C	112	C	ND	0.41	0.49	1.5	ND	ND	0.43
m/p-Xylenes	104	NC	313	NC	ND	1.2	1.2	2.8	ND	0.59	0.91
Styrene	1,040	NC	3,130	NC	ND	0.67	0.32	2.3	ND	1.4	2.0
o-Xylene	104	NC	313	NC	ND	ND	0.51	1.6	ND	ND	ND
4-Ethyltoluene	NL		NL		ND	ND	ND	0.36	ND	ND	ND
1,2,4-Trimethylbenzene	62.6	NC	188	NC	ND	0.36	ND	0.64	ND	ND	0.62
Inventory Items of Concern:					None Observed.						

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:			Property P2						
SAMPLE TYPE:			SUB-SLAB SOIL GAS SAMPLES						
LABORATORY NUMBER:				AC11135	AC14212	AC14213	AC14215	AC14214	
SAMPLE LOCATION:				P2-SSG	P2B-SSG	P2C-SSG	P2C-SSGD	P2D-SSG	
SAMPLE NUMBER:				S50187NH-0019	S50187NH-0039	S50187NH-0040	S50187NH-0042	S50187NH-0041	
CANISTER NO.				3092	13483	1589	22687	6579	
SAMPLE DATE:				1/18/2024	7/10/2024	7/10/2024	7/10/2024	7/10/2024	
COMPOUND	EPA RSsSG VISL HQ = 1/TR = 10 ⁻⁶	EPA RSsSG VISL HQ = 3/TR = 10 ⁻⁴		Sub-Slab Soil Gas Grab	Sub-Slab Soil Gas Grab	Sub-Slab Soil Gas Grab	Sub-Slab Soil Gas Grab	Sub-Slab Soil Gas Grab	
VOLATILE ORGANIC COMPOUNDS (VOC):			µg/m ³						
Dichlorodifluoromethane	3,480	10,400		130	7.3	2,800	2,500	4,100	
Vinyl Chloride	5.59	559		ND	ND	ND	ND	ND	
Trichlorofluoromethane	NL	NL		6.5	ND	ND	ND	ND	
1,1-Dichloroethylene (DCE)	6,950	20,900		ND	ND	ND	ND	ND	
trans-1,2-Dichloroethylene	1,390	4,170		ND	ND	ND	ND	ND	
Methyl Ethyl Ketone (2-Butanone)	174,000	521,000		ND	17	12	5.8	3.4	
cis-1,2-Dichloroethylene	NL	NL		ND	ND	ND	ND	ND	
Hexane	24,300	73,000		ND	ND	ND	ND	ND	
Benzene	12	1,200		ND	ND	ND	ND	ND	
Cyclohexane	209,000	626,000		ND	ND	ND	ND	ND	
Trichloroethylene (TCE)	15.9	209		ND	ND	ND	ND	ND	
Heptane	13,900	41,700		ND	ND	ND	ND	ND	
Methyl Isobutyl Ketone (MIBK)	104,000	313,000		ND	ND	ND	ND	3.9	
Toluene	174,000	521,000		2.9	5.1	ND	ND	ND	
Tetrachloroethylene (PCE)	360	4,170		500	420	270	230	78	
Ethylbenzene	37.4	3,740		ND	ND	ND	ND	ND	
m/p-Xylenes	3,480	10,400		ND	ND	ND	ND	ND	
o-Xylene	3,480	10,400		ND	ND	ND	ND	ND	
4-Ethyltoluene	NL	NL		ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	2,090	6,260		ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	2,090	6,260		ND	ND	ND	ND	ND	
Sub-Slab Pressure Differential (inches of Water column)				0.001	0.005	0.003	0.003	0.001	
Basement Walls:									
Basement Floor:									

ANALYTICAL METHODS

Samples analyzed by U.S. EPA New England Regional Laboratory (NERL)
Laboratory Services and Applied Science Division (NERL/LSASD).
Project Report No.s 24010012 and 24010013, Air Toxics by GC/MS

COPC METHOD DETECTION LIMITS [*"non-detect" values*]

Vinyl Chloride = 0.13 µg/m³
1,1-DCE = 0.20 µg/m³
T-1,2-DCE = 0.20 µg/m³
C-1,2-DCE = 0.20 µg/m³
TCE = 0.27 µg/m³
PCE = 0.34 µg/m³

NOTES:

- 1) µg/m³ = micrograms per cubic meter
- 2) All Results were reported in µg/m³.
- 3) ND = Not Detected.
- 4) NL = Not Listed.
- 5) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 1 (HQ = 1), Target Risk = 10-6 (TR = 10-6).
- 6) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 3 (HQ = 3), Target Risk = 10-4 (TR = 10-4).
- 7) RIA = Residential Target Indoor Air Concentration.
- 8) C/NC = Cancer or Non-Cancer toxicity basis of the Target RIA, if designated.
- 9) RSsSG = Residential Target Sub-slab Soil Gas Concentration.
- 10) Bolded results highlighted in YELLOW exceed the applicable EPA VISLs (HQ = 1, TR = 10-6).
- 11) Bolded results highlighted in ORANGE exceed the applicable EPA VISLs (HQ = 3, TR = 10⁻⁴).
- 12) An analyte is only shown in the table above if it was detected in at least one sample OR if it is a contaminant of potential concern (COPC).
Non-COPC analytes that were not detected in any samples are not shown.
- 13) Contaminants of potential concern (COPC) are highlighted in BLUE.
- 14) A negative (-) sub-slab pressure differential (Pdiff) indicates a higher (positive) pressure in the indoor air; therefore, flow would move from indoor air down through the slab. Conversely, a positive (+) sub-slab Pdiff indicates that sub-slab vapors would be drawn into the building, from the higher pressure below the slab into the lower-pressure indoor air.

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:					Property P2		Property P3		
SAMPLE TYPE:					OUTDOOR AIR		INDOOR AIR		
LABORATORY NUMBER: SAMPLE LOCATION: SAMPLE NUMBER: CANISTER NO. SAMPLE DATE:					AC11146	AC14211	AC11148	AC11150	AC11149
					P2-OS	P2-OS	P3W-1FLR	P3E-1FLR	P3-BT
					S50187NH-0019	S50187NH-0038	S50187NH-0023	S50187NH-0025	S50187NH-0024
					22105	13490	20855	1577	1114
					1/17/2024	7/10/2024	1/18/2024	1/18/2024	1/18/2024
COMPOUND	EPA RIA VISLs		EPA RIA VISLs		24-hour, Outside Ambient	24-hour, Outside Ambient	24-hour, First Floor	24-hour, First Floor	24-hour, Basement
	HQ = 1/TR = 10 ⁻⁶		HQ = 3/TR = 10 ⁻⁴		P1 and P2	P2			
VOLATILE ORGANIC COMPOUNDS (VOC):					µg/m³		µg/m³		
Dichlorodifluoromethane	104	NC	313	NC	2.1	4.8	ND	2.3	2.3
MethylChloride (chloromethane)	93.9	NC	282	NC	1.0	1.4	1.3	1.3	1.5
Vinyl Chloride	0.168	C	16.8	C	ND	ND	ND	ND	ND
1,3-Butadiene	0.0936	C	6.26	NC	ND	ND	ND	ND	0.58
Bromodichloromethane	0	C	8	C	ND	ND	ND	ND	ND
Trichlorofluoromethane	NL		NL		1.2	1.4	1.1	1.3	1.4
Acrylonitrile	0.041	C	4.13	C	ND	ND	ND	ND	ND
1,1-Dichloroethylene (DCE)	209	NC	626	NC	ND	ND	ND	ND	ND
Methylene Chloride	101	C	1,880	NC	ND	ND	ND	ND	3.2
trans-1,2-Dichloroethylene	41.7	NC	125	NC	ND	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)	5,210	NC	15,600	NC	0.25	1.7	0.78	0.45	1.4
cis-1,2-Dichloroethylene	NL		NL		ND	ND	ND	ND	ND
Hexane	730	NC	2,190	NC	0.26	ND	0.89	0.89	1.6
Chloroform	0.122	C	12.2	C	ND	ND	3.1	0.34	0.55
Tetrahydrofuran	2,090	NC	6,260		ND	ND	ND	ND	0.50
Benzene	0.36	C	36	C	0.55	0.27	1.4	0.88	2.2
Carbon Tetrachloride	0.468	C	46.8	C	ND	ND	ND	ND	ND
Cyclohexane	6,260	NC	18,800	NC	ND	ND	0.32	0.40	0.83
Trichloroethylene (TCE)	0.478	C	6.26	NC	ND	ND	ND	ND	ND
Heptane	417	NC	1,250	NC	ND	0.23	0.56	0.51	ND
Methyl Isobutyl Ketone (MIBK)	3,130	NC	9,390	NC	ND	ND	ND	ND	ND
Toluene	5,210	NC	15,600	NC	0.55	0.88	2.6	1.8	5.8
Tetrachloroethylene (PCE)	10.8	C	125	NC	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.3	C	26	C	ND	ND	ND	ND	ND
Ethylbenzene	1.12	C	112	C	ND	ND	0.41	0.31	1.3
m/p-Xylenes	104	NC	313	NC	ND	ND	0.98	0.97	4.5
Styrene	1,040	NC	3,130	NC	ND	ND	ND	ND	0.74
o-Xylene	104	NC	313	NC	ND	ND	0.43	0.38	1.7
4-Ethyltoluene	NL		NL		ND	ND	ND	ND	0.64
1,2,4-Trimethylbenzene	62.6	NC	188	NC	ND	ND	ND	ND	0.76
Inventory Items of Concern:							None Observed.		

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:			Property P2		Property P3		
SAMPLE TYPE:					SUB-SLAB SOIL GAS SAMPLES		
LABORATORY NUMBER:					AC11137	AC11138	
SAMPLE LOCATION:					P3-SSG	P3-SSGD	
SAMPLE NUMBER:					S50187NH-0021	S50187NH-0022	
CANISTER NO.					4778	13500	
SAMPLE DATE:					1/19/2024	1/19/2024	
COMPOUND	EPA RSsSG VISL HQ = 1/TR = 10 ⁻⁶	EPA RSsSG VISL HQ = 3/TR = 10 ⁻⁴			Sub-Slab Soil Gas Grab	Sub-Slab Soil Gas Duplicate	
VOLATILE ORGANIC COMPOUNDS (VOC):					µg/m ³		
Dichlorodifluoromethane	3,480	10,400			ND	ND	
Vinyl Chloride	5.59	559			ND	ND	
Trichlorofluoromethane	NL	NL			ND	ND	
1,1-Dichloroethylene (DCE)	6,950	20,900			ND	ND	
trans-1,2-Dichloroethylene	1,390	4,170			ND	ND	
Methyl Ethyl Ketone (2-Butanone)	174,000	521,000			ND	ND	
cis-1,2-Dichloroethylene	NL	NL			ND	ND	
Hexane	24,300	73,000			27	15	
Benzene	12	1,200			12	7.6	
Cyclohexane	209,000	626,000			16	11	
Trichloroethylene (TCE)	15.9	209			ND	ND	
Heptane	13,900	41,700			9.3	6.1	
Methyl Isobutyl Ketone (MIBK)	104,000	313,000			ND	ND	
Toluene	174,000	521,000			300	170	
Tetrachloroethylene (PCE)	360	4,170			31	27	
Ethylbenzene	37.4	3,740			85	50	
m/p-Xylenes	3,480	10,400			270	160	
o-Xylene	3,480	10,400			98	59	
4-Ethyltoluene	NL	NL			10	5.7	
1,3,5-Trimethylbenzene	2,090	6,260			8.2	4.9	
1,2,4-Trimethylbenzene	2,090	6,260			22	14	
Sub-Slab Pressure Differential (inches of Water column)					0.018	0.018	
Basement Walls:					Cinderblock walls surrounding the basement.		
Basement Floor:					Concrete; 4.5" thick; one stick up vapor pin installed.		

ANALYTICAL METHODS

Samples analyzed by U.S. EPA New England Regional Laboratory (NERL)
Laboratory Services and Applied Science Division (NERL/LSAD).
Project Report No.s 24010012 and 24010013, Air Toxics by GC/MS

COPC METHOD DETECTION LIMITS [*"non-detected" values*]

Vinyl Chloride = 0.13 µg/m³
1,1-DCE = 0.20 µg/m³
T-1,2-DCE = 0.20 µg/m³
C-1,2-DCE = 0.20 µg/m³
TCE = 0.27 µg/m³
PCE = 0.34 µg/m³

NOTES:

- 1) µg/m³ = micrograms per cubic meter
- 2) All Results were reported in µg/m³.
- 3) ND = Not Detected.
- 4) NL = Not Listed.
- 5) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 1 (HQ = 1), Target Risk = 10-6 (TR = 10-6).
- 6) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 3 (HQ = 3), Target Risk = 10-4 (TR = 10-4).
- 7) RIA = Residential Target Indoor Air Concentration.
- 8) C/NC = Cancer or Non-Cancer toxicity basis of the Target RIA, if designated.
- 9) RSsSG = Residential Target Sub-slab Soil Gas Concentration.
- 10) Bolded results highlighted in YELLOW exceed the applicable EPA VISLs (HQ = 1, TR = 10-6).
- 11) Bolded results highlighted in ORANGE exceed the applicable EPA VISLs (HQ = 3, TR = 10⁻⁴).
- 12) An analyte is only shown in the table above if it was detected in at least one sample OR if it is a contaminant of potential concern (COPC).
Non-COPC analytes that were not detected in any samples are not shown.
- 13) Contaminants of potential concern (COPC) are highlighted in BLUE.
- 14) A negative (-) sub-slab pressure differential (Pd_{iff}) indicates a higher (positive) pressure in the indoor air; therefore, flow would move from indoor air down through the slab. Conversely, a positive (+) sub-slab Pd_{iff} indicates that sub-slab vapors would be drawn into the building, from the higher pressure below the slab into the lower-pressure indoor air.

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:					Property P4				
SAMPLE TYPE:					INDOOR AIR				OUTDOOR AIR
LABORATORY NUMBER: SAMPLE LOCATION: SAMPLE NUMBER: CANISTER NO. SAMPLE DATE:					AC11151	AC11152	AC11153	AC11154	AC11155
					P4N-1FLR	P4N-BT	P4S-1FLR	P4S-BT	P4-OS
					S50187NH-0026	S50187NH-0027	S50187NH-0028	S50187NH-0029	S50187NH-0030
					22682	5792	1587	22694	6553
					1/18/2023	1/18/2024	1/18/2024	1/18/2024	1/18/2024
COMPOUND	EPA RIA VISLs		EPA RIA VISLs		24-hour, First Floor	24-hour, Basement	24-hour, First Floor	24-hour, Basement	24-hour, Outside Ambient
	HQ = 1/TR = 10 ⁻⁶		HQ = 3/TR = 10 ⁻⁴						P3 and P4
VOLATILE ORGANIC COMPOUNDS (VOC):					µg/m ³				µg/m ³
Dichlorodifluoromethane	104	NC	313	NC	ND	2.5	ND	2.5	2.2
MethylChloride (chloromethane)	93.9	NC	282	NC	1.5	1.2	2.1	1.2	1.1
Vinyl Chloride	0.168	C	16.8	C	ND	ND	ND	ND	ND
1,3-Butadiene	0.0936	C	6.26	NC	ND	ND	ND	ND	ND
Bromodichloromethane	0	C	8	C	ND	ND	ND	ND	ND
Trichlorofluoromethane	NL		NL		1.2	1.3	1.2	1.2	1.2
Acrylonitrile	0.041	C	4.13	C	ND	ND	ND	ND	ND
1,1-Dichloroethylene (DCE)	209	NC	626	NC	ND	ND	ND	ND	ND
Methylene Chloride	101	C	1,880	NC	ND	0.39	0.41	0.37	0.40
trans-1,2-Dichloroethylene	41.7	NC	125	NC	ND	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)	5,210	NC	15,600	NC	0.54	0.29	0.49	0.67	0.39
cis-1,2-Dichloroethylene	NL		NL		ND	ND	ND	ND	ND
Hexane	730	NC	2,190	NC	0.90	2.3	0.84	0.92	0.81
Chloroform	0.122	C	12.2	C	ND	ND	1.9	ND	ND
Tetrahydrofuran	2,090	NC	6,260		0.46	0.88	0.59	2.9	ND
Benzene	0.36	C	36	C	1.1	0.93	0.82	0.62	1.1
Carbon Tetrachloride	0.468	C	46.8	C	ND	ND	ND	ND	ND
Cyclohexane	6,260	NC	18,800	NC	0.40	0.77	0.35	0.34	0.29
Trichloroethylene (TCE)	0.478	C	6.26	NC	ND	ND	ND	ND	ND
Heptane	417	NC	1,250	NC	0.84	1.7	0.76	0.83	0.41
Methyl Isobutyl Ketone (MIBK)	3,130	NC	9,390	NC	ND	ND	ND	ND	ND
Toluene	5,210	NC	15,600	NC	2.2	2.7	1.6	1.6	1.7
Tetrachloroethylene (PCE)	10.8	C	125	NC	0.86	1.2	0.71	0.56	ND
1,4-Dichlorobenzene	0.3	C	26	C	ND	ND	ND	ND	ND
Ethylbenzene	1.12	C	112	C	0.36	0.43	0.30	0.29	ND
m/p-Xylenes	104	NC	313	NC	1.1	1.3	0.81	0.94	0.48
Styrene	1,040	NC	3,130	NC	ND	ND	ND	ND	ND
o-Xylene	104	NC	313	NC	0.36	0.46	0.34	0.32	ND
4-Ethyltoluene	NL		NL		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	62.6	NC	188	NC	ND	ND	ND	ND	ND
Inventory Items of Concern:					None Observed.				

TABLE 2
SUMMARY OF INDOOR AIR AND SUB-SLAB SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024 and 10 JULY 2024

PROPERTY LOCATION:			Property P4				
SAMPLE TYPE:			SUB-SLAB SOIL GAS SAMPLES				
LABORATORY NUMBER:					AC11139		
SAMPLE LOCATION:					P4-SSG		
SAMPLE NUMBER:					S50187NH-0023		
CANISTER NO.					20844		
SAMPLE DATE:					1/19/2024		
COMPOUND	EPA RSsSG VISL HQ = 1/TR = 10 ⁻⁶	EPA RSsSG VISL HQ = 3/TR = 10 ⁻⁴			Sub-Slab Soil Gas Grab		
VOLATILE ORGANIC COMPOUNDS (VOC):			µg/m ³				
Dichlorodifluoromethane	3,480	10,400			ND		
Vinyl Chloride	5.59	559			ND		
Trichlorofluoromethane	NL	NL			ND		
1,1-Dichloroethylene (DCE)	6,950	20,900			ND		
trans-1,2-Dichloroethylene	1,390	4,170			ND		
Methyl Ethyl Ketone (2-Butanone)	174,000	521,000			ND		
cis-1,2-Dichloroethylene	NL	NL			ND		
Hexane	24,300	73,000			25		
Benzene	12	1,200			12		
Cyclohexane	209,000	626,000			22		
Trichloroethylene (TCE)	15.9	209			ND		
Heptane	13,900	41,700			ND		
Methyl Isobutyl Ketone (MIBK)	104,000	313,000			ND		
Toluene	174,000	521,000			350		
Tetrachloroethylene (PCE)	360	4,170			130		
Ethylbenzene	37.4	3,740			130		
m/p-Xylenes	3,480	10,400			440		
o-Xylene	3,480	10,400			180		
4-Ethyltoluene	NL	NL			20		
1,3,5-Trimethylbenzene	2,090	6,260			16		
1,2,4-Trimethylbenzene	2,090	6,260			45		
Sub-Slab Pressure Differential (inches of Water column)					0.002		
Basement Walls:			Cinderblock walls, two to the outside and two to the other basement quadrants that have 4-inch openings at the ceiling.				
Basement Floor:			Concrete; 4" thick; one stick up vapor pin installed.				

ANALYTICAL METHODS

Samples analyzed by U.S. EPA New England Regional Laboratory (NERL)
Laboratory Services and Applied Science Division (NERL/LSAD).
Project Report No.s 24010012 and 24010013, Air Toxics by GC/MS

COPC METHOD DETECTION LIMITS [*"non-detect" values*]

Vinyl Chloride = 0.13 µg/m³
1,1-DCE = 0.20 µg/m³
T-1,2-DCE = 0.20 µg/m³
C-1,2-DCE = 0.20 µg/m³
TCE = 0.27 µg/m³
PCE = 0.34 µg/m³

NOTES:

- 1) µg/m³ = micrograms per cubic meter
- 2) All Results were reported in µg/m³.
- 3) ND = Not Detected.
- 4) NL = Not Listed.
- 5) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 1 (HQ = 1), Target Risk = 10-6 (TR = 10-6).
- 6) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazabd Quotient = 3 (HQ = 3), Target Risk = 10-4 (TR = 10-4).
- 7) RIA = Residential Target Indoor Air Concentration.
- 8) C/NC = Cancer or Non-Cancer toxicity basis of the Target RIA, if designated.
- 9) RSsSG = Residential Target Sub-slab Soil Gas Concentration.
- 10) Bolded results highlighted in YELLOW exceed the applicable EPA VISLs (HQ = 1, TR = 10-6).
- 11) Bolded results highlighted in ORANGE exceed the applicable EPA VISLs (HQ = 3, TR = 10⁻⁴).
- 12) An analyte is only shown in the table above if it was detected in at least one sample OR if it is a contaminant of potential concern (COPC).
Non-COPC analytes that were not detected in any samples are not shown.
- 13) Contaminants of potential concern (COPC) are highlighted in BLUE.
- 14) A negative (-) sub-slab pressure differential (Pdiff) indicates a higher (positive) pressure in the indoor air; therefore, flow would move from indoor air down through the slab. Conversely, a positive (+) sub-slab Pdiff indicates that sub-slab vapors would be drawn into the building, from the higher pressure below the slab into the lower-pressure indoor air.

TABLE 3
SUMMARY OF SOIL GAS SAMPLE RESULTS
FOSSA AVE VI SITE
NASHUA, NEW HAMPSHIRE
17-18 JANUARY 2024

PROPERTY LOCATION:			Property P1			
SAMPLE TYPE:			SOIL GAS SAMPLES			
LABORATORY NUMBER:			AC11130	AC11131	AC11132	AC11133
SAMPLE LOCATION:			SG-01	SG-02	SG-102	SG-03
SAMPLE NUMBER:			S50187NH-0014	S50187NH-0015	S50187NH-0016	S50187NH-0017
CANISTER NO.			20843	20859	6462	1589
SAMPLE DATE:			1/17/2024	1/17/2024	1/17/2024	1/17/2024
COMPOUND	EPA RSsSG VISL HQ = 1/TR = 10 ⁻⁶	EPA RSsSG VISL HQ = 3/TR = 10 ⁻⁴	Soil Gas Grab	Soil Gas Grab	Soil Gas Duplicate	Soil Gas Grab
VOLATILE ORGANIC COMPOUNDS (VOCs)			µg/m ³			
Dichlorodifluoromethane	3,480	10,400	ND	ND	ND	9.6
MethylChloride (chloromethane)	3,130	9,390	ND	ND	ND	ND
Vinyl Chloride	5.59	559	ND	ND	ND	ND
1,3-Butadiene	3.12	209	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	360	36,000	ND	ND	ND	ND
Methylene Chloride	3,380	62,600	ND	ND	ND	ND
Trichlorotrifluoroethane	174,000	521,000	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)	174,000	521,000	ND	ND	ND	ND
Chloroform	4.07	407	ND	ND	ND	ND
Tetrahydrofuran	69,500	209,000	ND	ND	ND	ND
1,2-Dichloroethane	3.6	360	ND	ND	ND	ND
1,1,1-Trichloroethane	174,000	521,000	ND	ND	ND	ND
Acetone	NL	NL	ND	ND	ND	ND
Benzene	12	1,200	ND	ND	ND	ND
Toluene	174,000	521,000	ND	ND	ND	ND
Naphthalene	2.75	275	ND	ND	ND	ND
Propene	104,000	313,000	ND	ND	ND	ND
Tetrachloroethylene (PCE)	360	4,170	12,000	12,000	9,500	1,100
Ethanol	NL	NL	ND	ND	ND	ND
o-Xylene	3,480	10,400	ND	ND	ND	ND
4-Ethyltoluene	NL	NL	ND	ND	ND	ND

ANALYTICAL METHODS

Samples analyzed by U.S. EPA New England Regional Laboratory (NERL) Laboratory Services and Applied Science Division (NERL/LSASD). Project Report No.s 24010012 and 24010013, Air Toxics by GC/MS

COPC METHOD DETECTION LIMITS ["non-detect" values]

Vinyl Chloride = 0.13 µg/m³
1,1-DCE = 0.20 µg/m³
T-1,2-DCE = 0.20 µg/m³
C-1,2-DCE = 0.20 µg/m³
TCE = 0.27 µg/m³
PCE = 0.34 µg/m³

NOTES:

- 1) µg/m³ = micrograms per cubic meter
2) All Results were reported in µg/m³.
3) ND = Not Detected.
4) NL = Not Listed.

- 5) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 1 (HQ = 1), Target Risk = 10⁻⁶ (TR = 10⁻⁶).
6) EPA VISLs = EPA Vapor Intrusion Screening Levels, Hazard Quotient = 3 (HQ = 3), Target Risk = 10⁻⁴ (TR = 10⁻⁴).
7) C/NC = Cancer or Non-Cancer toxicity basis of the Target RIA, if designated.
8) RSsSG = Residential Target Sub-slab Soil Gas Concentration.
9) Bolded results highlighted in YELLOW exceed the applicable EPA VISLs (HQ = 1, TR = 10⁻⁶).
10) Bolded results highlighted in ORANGE exceed the applicable EPA VISLs (HQ = 3, TR = 10⁻⁴).
11) An analyte is only shown in the table above if it was detected in at least one sample OR if it is a contaminant of potential concern (COPC). Non-COPC analytes that were not detected in any samples are not shown.
12) Contaminants of potential concern (COPC) are highlighted in BLUE.

Appendix C

Photo-documentation Log

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire



SCENE: View of the DigSafe markings in the parking lot of properties P-1 and P-2. Photograph taken facing south.

DATE: 17 January 2024

TIME: 1423 hours

PHOTOGRAPHER: T. LePage

CAMERA: Apple iPhone 13



SCENE: View of the DigSafe markings and monitoring wells MW-1 (foreground) and MW-4 (background) in the parking lot of properties P-1 and P-2. Photograph taken facing north.

DATE: 17 January 2024

TIME: 1424 hours

PHOTOGRAPHER: B. Mace

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire



SCENE: View of the Digsafe markings near property P-2 and the utility closet where the vapor pin was installed and sample P-2-SSG was collected. Photograph taken facing southwest.

DATE: 17 January 2024

PHOTOGRAPHER: B. Mace

TIME: 1423 hours

CAMERA: Apple iPhone 13



SCENE: View of MW-5 that could not be sampled due to the well containing product (oil). Photograph taken facing southwest.

DATE: 17 January 2024

PHOTOGRAPHER: B. Mace

TIME: 1425 hours

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire



SCENE: View of the groundwater sampling set-up for MW-1 in the parking lot of properties P-1 and P-2. Photograph taken facing east.

DATE: 17 January 2024

TIME: 1051 hours

PHOTOGRAPHER: T. LePage

CAMERA: Apple iPhone 13



SCENE: View of the north side of property P-1 where soil gas samples SG-01 through SG-03 were collected. Photograph taken facing east.

DATE: 17 January 2024

TIME: 1425 hours

PHOTOGRAPHER: B. Mace

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire



SCENE: View of the soil gas sampling set-up for SG-02 on property P-1. Photograph taken facing north.

DATE: 17 January 2024

TIME: 1323 hours

PHOTOGRAPHER: T. LePage

CAMERA: Apple iPhone 13



SCENE: View of the north side of property P-1 where soil gas samples were collected. Photograph taken facing east.

DATE: 17 January 2024

TIME: 1327 hours

PHOTOGRAPHER: T. LePage

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire



SCENE: View of sub-slab soil gas sample P2-SSG in the utility closet of property P-2. Photograph taken facing west.

DATE: 18 January 2024

TIME: 1121 hours

PHOTOGRAPHER: T. LePage

CAMERA: Apple iPhone 13



SCENE: View of indoor air sample location P4N-BT in property P-4. Photograph taken facing west.

DATE: 18 January 2024

TIME: 1324 hours

PHOTOGRAPHER: T. LePage

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire



SCENE: View of sub-slab soil gas sample P3-SSG in the basement of property P-3. Photograph taken facing north.

DATE: 19 January 2024

TIME: 1322 hours

PHOTOGRAPHER: T. LePage

CAMERA: Apple iPhone 13

TOP



SCENE: View of sub-slab soil gas sample P4-SSG in the basement of property P-4. Photograph taken facing west.

DATE: 19 January 2024

TIME: 1347 hours

PHOTOGRAPHER: B. Mace

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire

TOP



SCENE: View of indoor air sample P2B-1FLR in the living room of property P2-B.

DATE: 9 July 2024

TIME: 0909 hours

PHOTOGRAPHER: B. Mace

CAMERA: Apple iPhone 13

TOP



SCENE: View of indoor air sample P2CA-1FDR and field duplicate P2C-1FDRD in the dining room of property P2-C.

DATE: 9 July 2024

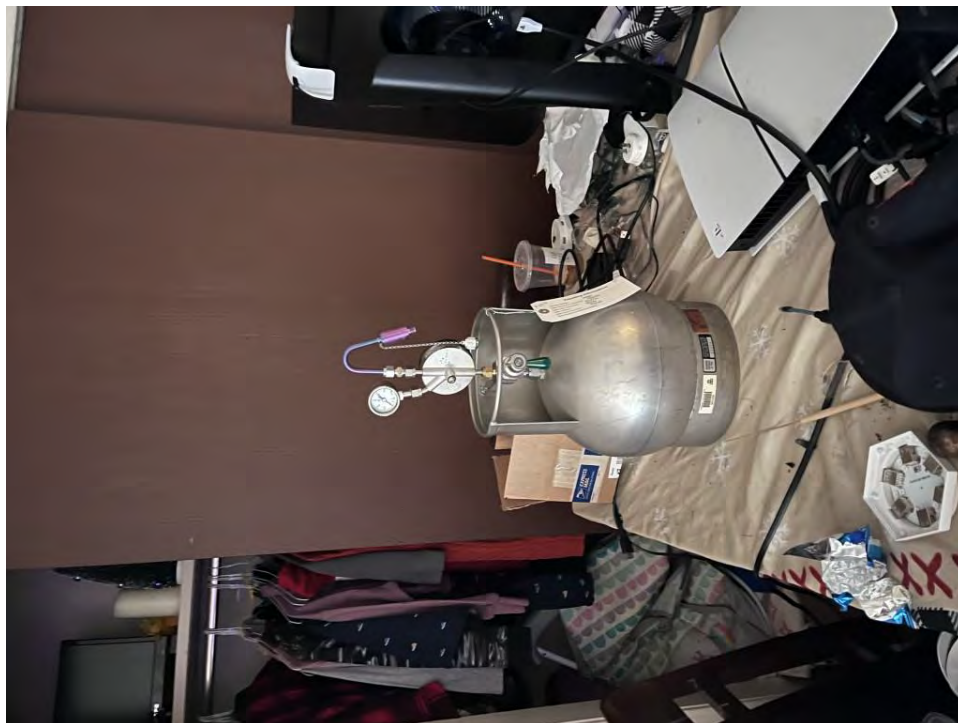
TIME: 0917 hours

PHOTOGRAPHER: B. Mace

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire

TOP



SCENE: View of indoor air sample P2D-1FDR in the dining room of property P2-D.

DATE: 9 July 2024

PHOTOGRAPHER: B. Mace

TIME: 0923 hours

CAMERA: Apple iPhone 13

TOP



SCENE: View of sub-slab soil gas sample P2B-SSG (under the rug) in the laundry area of property P2-B.

DATE: 10 July 2024

PHOTOGRAPHER: B. Mace

TIME: 0940 hours

CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire

TOP



SCENE: View of sub-slab soil gas sample P2C-SSG and field duplicate P2C-SSGD in the laundry area of property P2-C.

DATE: 10 July 2024
PHOTOGRAPHER: B. Mace

TIME: 1010 hours
CAMERA: Apple iPhone 13



SCENE: View of sub-slab soil gas sample P2B-SSG (under the rug) in the laundry area of property P2-B following sample collection.

DATE: 10 July 2024
PHOTOGRAPHER: B. Mace

TIME: 1018 hours
CAMERA: Apple iPhone 13

PHOTODOCUMENTATION LOG
Fossa Ave VI • Nashua, New Hampshire

TOP



SCENE: View of sub-slab soil gas sample P2D-SSG in the entryway of property P2-D.

DATE: 10 July 2024

PHOTOGRAPHER: B. Mace

TIME: 1047 hours

CAMERA: Apple iPhone 13

TOP



SCENE: View of sub-slab soil gas sample P2D-SSG (under the rug) in the entryway of property P2-D following sample collection.

DATE: 10 July 2024

PHOTOGRAPHER: B. Mace

TIME: 0940 hours

CAMERA: Apple iPhone 13

Appendix D

Analytical Data and Chain-of-Custody Records

Laboratory Report

January 25, 2024

Abdine Ouedraogo (2-MI)

Sherry Banks (2-CO)

US EPA New England R1

Project Number: 24010010

Project: 9 Fossa Ave - Nashua, NH

Analysis: VOAs in Water

EPA Chemist: Allison Connors

Date Samples Received by the Laboratory: 01/18/2024

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-VOAGCMS12.

Samples were analyzed by GC/MS. Samples were introduced to the GC via an autosampler and purge and trap preconcentrator system.. The analysis SOP is based on US EPA Method 8260D SW846 update VI, rev 4, 2018, method 5030B, rev 2.0 SW-846, Rev 2.0, 1996. Method 624.1, 40CFR Part 136 Appendix A, December, 2014, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL
BOUDREAU

Digitally signed by
DANIEL BOUDREAU
Date: 2024.01.25
11:15:27 -05'00'

24010010\$VOAMW

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

ANR = Analysis not required.

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0001	Lab Sample ID:	AC11119
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	19	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	5.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	69	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	3.0	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID: S50187NH-0001
Date of Collection: 1/17/2024
Date of Preparation: 1/23/2024
Date of Analysis: 1/23/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AC11119
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	104	86 - 123
Toluene-D8	103	94 - 104
1,4-Bromofluorobenzene	94	92 - 106

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0002	Lab Sample ID:	AC11120
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	5.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	5.1	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	4.9	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	29	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID: S50187NH-0002
Date of Collection: 1/17/2024
Date of Preparation: 1/23/2024
Date of Analysis: 1/23/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AC11120
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	108	86 - 123
Toluene-D8	105	94 - 104
1,4-Bromofluorobenzene	92	92 - 106

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0003	Lab Sample ID:	AC11121
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	5
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	5.0	
75-01-4	Vinyl Chloride	8.9	5.0	
74-83-9	Bromomethane	ND	5.0	
75-00-3	Chloroethane	ND	5.0	
75-69-4	Trichlorofluoromethane	ND	5.0	
60-29-7	Ethyl Ether	ND	5.0	
67-64-1	2-Propanone (acetone)	ND	25	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	5.0	
75-35-4	1,1-Dichloroethylene	ND	5.0	
75-15-0	Carbon Disulfide	ND	5.0	
75-71-8	Dichlorodifluoromethane	ND	5.0	
75-09-2	Methylene Chloride	ND	5.0	
107-13-1	Acrylonitrile	ND	5.0	
1634-04-4	Methyl-t-Butyl Ether	ND	5.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	5.0	
75-34-3	1,1-dichloroethane	ND	5.0	
108-05-4	Vinyl Acetate	ND	5.0	
78-93-3	2-Butanone (MEK)	ND	25	
594-20-7	2,2-Dichloropropane	ND	5.0	
156-59-2	cis-1,2-Dichloroethylene	200	5.0	
67-66-3	Chloroform	ND	5.0	
74-97-5	Bromochloromethane	ND	5.0	
109-99-9	Tetrahydrofuran	ND	5.0	
71-55-6	1,1,1-Trichloroethane	ND	5.0	
107-06-2	1,2-Dichloroethane	ND	5.0	
56-23-5	Carbon tetrachloride	ND	5.0	
71-43-2	Benzene	ND	5.0	
10061-01-5	c-1,3-dichloropropene	ND	5.0	
108-88-3	Toluene	ND	5.0	
10061-02-6	t-1,3-Dichloropropene	ND	5.0	
79-00-5	1,1,2-Trichloroethane	ND	5.0	
124-48-1	Dibromochloromethane	ND	5.0	
108-90-7	Chlorobenzene	ND	5.0	
563-58-6	1,1-Dichloropropene	ND	5.0	
79-01-6	Trichloroethylene	20	5.0	
78-87-5	1,2-Dichloropropane	ND	5.0	
75-27-4	Bromodichloromethane	ND	5.0	
74-95-3	Dibromomethane	ND	5.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	5.0	
142-28-9	1,3-Dichloropropane	ND	5.0	
127-18-4	Tetrachloroethylene	88	5.0	
106-93-4	1,2-Dibromoethane	ND	5.0	
591-78-6	2-Hexanone	ND	5.0	

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID: S50187NH-0003
Date of Collection: 1/17/2024
Date of Preparation: 1/23/2024
Date of Analysis: 1/23/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AC11121
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 5
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	
100-41-4	Ethylbenzene	ND	5.0	
108-38-3/106-42-3	M/P Xylene	ND	10	
95-47-6	Ortho Xylene	ND	5.0	
100-42-5	Styrene	ND	5.0	
75-25-2	Bromoform	ND	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	
98-82-8	Isopropylbenzene	ND	5.0	
108-86-1	Bromobenzene	ND	5.0	
96-18-4	1,2,3-Trichloropropane	ND	5.0	
103-65-1	N-Propylbenzene	ND	5.0	
95-49-8	2-Chlorotoluene	ND	5.0	
106-43-4	4-Chlorotoluene	ND	5.0	
98-06-6	Tert-Butylbenzene	ND	5.0	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	
135-98-8	Sec-Butylbenzene	ND	5.0	
541-73-1	1,3-Dichlorobenzene	ND	5.0	
99-87-6	Para-Isopropyltoluene	ND	5.0	
106-46-7	1,4-Dichlorobenzene	ND	5.0	
95-50-1	1,2-Dichlorobenzene	ND	5.0	
104-51-8	N-Butylbenzene	ND	5.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	5.0	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	
87-68-3	Hexachlorobutadiene	ND	5.0	
91-20-3	Naphthalene	ND	5.0	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	103	86 - 123
Toluene-D8	103	94 - 104
1,4-Bromofluorobenzene	91	92 - 106

9 Fossa Ave - Nashua, NH

Laboratory Blank for \$VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5.0 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5.0 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	5.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	

9 Fossa Ave - Nashua, NH

Laboratory Blank for \$VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5.0 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5.0 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	106	86 - 123
Toluene-D8	104	94 - 104
1,4-Bromofluorobenzene	92	92 - 106

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0004	Lab Sample ID:	AC11122
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	10
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	10	
75-01-4	Vinyl Chloride	ND	10	
74-83-9	Bromomethane	ND	10	
75-00-3	Chloroethane	ND	10	
75-69-4	Trichlorofluoromethane	ND	10	
60-29-7	Ethyl Ether	ND	10	
67-64-1	2-Propanone (acetone)	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	10	
75-35-4	1,1-Dichloroethylene	ND	10	
75-15-0	Carbon Disulfide	ND	10	
75-71-8	Dichlorodifluoromethane	ND	10	
75-09-2	Methylene Chloride	ND	10	
107-13-1	Acrylonitrile	ND	10	
1634-04-4	Methyl-t-Butyl Ether	ND	10	
156-60-5	Trans-1,2-Dichloroethylene	ND	10	
75-34-3	1,1-dichloroethane	ND	10	
108-05-4	Vinyl Acetate	ND	10	
78-93-3	2-Butanone (MEK)	ND	50	
594-20-7	2,2-Dichloropropane	ND	10	
156-59-2	cis-1,2-Dichloroethylene	480	10	
67-66-3	Chloroform	ND	10	
74-97-5	Bromochloromethane	ND	10	
109-99-9	Tetrahydrofuran	ND	10	
71-55-6	1,1,1-Trichloroethane	ND	10	
107-06-2	1,2-Dichloroethane	ND	10	
56-23-5	Carbon tetrachloride	ND	10	
71-43-2	Benzene	ND	10	
10061-01-5	c-1,3-dichloropropene	ND	10	
108-88-3	Toluene	ND	10	
10061-02-6	t-1,3-Dichloropropene	ND	10	
79-00-5	1,1,2-Trichloroethane	ND	10	
124-48-1	Dibromochloromethane	ND	10	
108-90-7	Chlorobenzene	ND	10	
563-58-6	1,1-Dichloropropene	ND	10	
79-01-6	Trichloroethylene	81	10	
78-87-5	1,2-Dichloropropane	ND	10	
75-27-4	Bromodichloromethane	ND	10	
74-95-3	Dibromomethane	ND	10	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	10	
142-28-9	1,3-Dichloropropane	ND	10	
127-18-4	Tetrachloroethylene	63	10	
106-93-4	1,2-Dibromoethane	ND	10	
591-78-6	2-Hexanone	ND	10	

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0004	Lab Sample ID:	AC11122
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	10
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	
100-41-4	Ethylbenzene	ND	10	
108-38-3/106-42-3	M/P Xylene	ND	20	
95-47-6	Ortho Xylene	ND	10	
100-42-5	Styrene	ND	10	
75-25-2	Bromoform	ND	10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	
98-82-8	Isopropylbenzene	ND	10	
108-86-1	Bromobenzene	ND	10	
96-18-4	1,2,3-Trichloropropane	ND	10	
103-65-1	N-Propylbenzene	ND	10	
95-49-8	2-Chlorotoluene	ND	10	
106-43-4	4-Chlorotoluene	ND	10	
98-06-6	Tert-Butylbenzene	ND	10	
108-67-8	1,3,5-Trimethylbenzene	ND	10	
95-63-6	1,2,4-Trimethylbenzene	ND	10	
135-98-8	Sec-Butylbenzene	ND	10	
541-73-1	1,3-Dichlorobenzene	ND	10	
99-87-6	Para-Isopropyltoluene	ND	10	
106-46-7	1,4-Dichlorobenzene	ND	10	
95-50-1	1,2-Dichlorobenzene	ND	10	
104-51-8	N-Butylbenzene	ND	10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	10	
120-82-1	1,2,4-Trichlorobenzene	ND	10	
87-68-3	Hexachlorobutadiene	ND	10	
91-20-3	Naphthalene	ND	10	
87-61-6	1,2,3-Trichlorobenzene	ND	10	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	104	86 - 123
Toluene-D8	102	94 - 104
1,4-Bromofluorobenzene	91	92 - 106

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0005	Lab Sample ID:	AC11123
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	20	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	5.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	66	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	2.5	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0005	Lab Sample ID:	AC11123
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	104	86 - 123
Toluene-D8	102	94 - 104
1,4-Bromofluorobenzene	93	92 - 106

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID:	S50187NH-0006	Lab Sample ID:	AC11124
Date of Collection:	1/17/2024	Matrix:	GW
Date of Preparation:	1/23/2024	Amount Prepared:	5 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	<2
Volume Extracted:	5 mL	GPC Factor:	N/A
Final Volume:	N/A		

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	7.1	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	5.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	1.4	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
71-43-2	Benzene	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
108-88-3	Toluene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID: S50187NH-0006
Date of Collection: 1/17/2024
Date of Preparation: 1/23/2024
Date of Analysis: 1/23/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AC11124
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3/106-42-3	M/P Xylene	ND	2.0	
95-47-6	Ortho Xylene	ND	1.0	
100-42-5	Styrene	ND	1.0	
75-25-2	Bromoform	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	106	86 - 123
Toluene-D8	103	94 - 104
1,4-Bromofluorobenzene	93	92 - 106

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID: S50187NH-0007
Date of Collection: 1/17/2024
Date of Preparation: 1/23/2024
Date of Analysis: 1/23/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AC11125
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
67-64-1	2-Propanone (acetone)	83	5.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
75-35-4	1,1-Dichloroethylene	78	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
75-09-2	Methylene Chloride	120	5.0	
107-13-1	Acrylonitrile	ND	1.0	
1634-04-4	Methyl-t-Butyl Ether	53	1.0	
156-60-5	Trans-1,2-Dichloroethylene	94	1.0	
75-34-3	1,1-dichloroethane	92	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	5.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	23	1.0	
67-66-3	Chloroform	39	1.0	
74-97-5	Bromochloromethane	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
107-06-2	1,2-Dichloroethane	160	5.0	
56-23-5	Carbon tetrachloride	63	1.0	
71-43-2	Benzene	30	1.0	
10061-01-5	c-1,3-dichloropropene	13	1.0	
108-88-3	Toluene	63	1.0	
10061-02-6	t-1,3-Dichloropropene	15	1.0	
79-00-5	1,1,2-Trichloroethane	78	1.0	
124-48-1	Dibromochloromethane	13	1.0	
108-90-7	Chlorobenzene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
79-01-6	Trichloroethylene	76	1.0	
78-87-5	1,2-Dichloropropane	120	5.0	
75-27-4	Bromodichloromethane	50	1.0	
74-95-3	Dibromomethane	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	67	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
127-18-4	Tetrachloroethylene	27	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	

9 Fossa Ave - Nashua, NH

VOAs in Water

Client Sample ID: S50187NH-0007
Date of Collection: 1/17/2024
Date of Preparation: 1/23/2024
Date of Analysis: 1/23/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A
Volume Extracted: 5 mL
Final Volume: N/A

Lab Sample ID: AC11125
Matrix: GW
Amount Prepared: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: <2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	140	5.0	
100-41-4	Ethylbenzene	8.6	1.0	
108-38-3/106-42-3	M/P Xylene	26	2.0	
95-47-6	Ortho Xylene	78	1.0	
100-42-5	Styrene	64	1.0	
75-25-2	Bromoform	89	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	19	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	57	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	97	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
106-46-7	1,4-Dichlorobenzene	27	1.0	
95-50-1	1,2-Dichlorobenzene	42	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	26	1.0	
120-82-1	1,2,4-Trichlorobenzene	79	5.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
91-20-3	Naphthalene	96	5.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	

Surrogate Compounds

Recoveries (%)

QC Ranges

1,2-Dichloroethane-D4

104

86 - 123

Toluene-D8

106

94 - 104

1,4-Bromofluorobenzene

97

92 - 106

Comments: Methylene chloride, 1,2-dichloroethane, 1,2-dichloropropane, 1,1,1,2-tetrachloroethane, 1,2,4-trichlorobenzene, and naphthalene are reported from 5x dilution. Reporting levels are raised accordingly.

9 Fossa Ave - Nashua, NH

MATRIX SPIKE (MS) RECOVERY

Sample ID: AC11121

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	100	ND	90.0	90	79 - 128
1,1,1-Trichloroethane	100	ND	93.0	93	68 - 140
1,1,2,2-Tetrachloroethane	100	ND	90.0	90	67 - 130
1,1,2-Trichloro-1,2,2-Trifluoroetha	100	ND	100	100	60 - 145
1,1,2-Trichloroethane	100	ND	96.0	96	72 - 129
1,1-Dichloroethylene	100	ND	89.0	89	57 - 137
1,1-Dichloropropene	100	ND	89.0	89	74 - 132
1,1-dichloroethane	100	ND	93.0	93	66 - 135
1,2,3-Trichlorobenzene	100	ND	90.0	90	45 - 133
1,2,3-Trichloropropane	100	ND	89.0	89	46 - 139
1,2,4-Trichlorobenzene	100	ND	87.0	87	49 - 131
1,2,4-Trimethylbenzene	100	ND	99.0	99	74 - 132
1,2-Dibromo-3-Chloropropane	100	ND	91.0	91	42 - 132
1,2-Dibromoethane	100	ND	90.0	90	66 - 128
1,2-Dichlorobenzene	100	ND	92.0	92	70 - 124
1,2-Dichloroethane	100	ND	96.0	96	70 - 134
1,2-Dichloropropane	100	ND	93.0	93	75 - 124
1,3,5-Trimethylbenzene	100	ND	92.0	92	67 - 129
1,3-Dichlorobenzene	100	ND	93.0	93	69 - 127
1,3-Dichloropropane	100	ND	92.0	92	68 - 129
1,4-Dichlorobenzene	100	ND	91.0	91	70 - 123
2,2-Dichloropropane	100	ND	86.0	86	58 - 139
2-Butanone (MEK)	100	ND	91.0	91	19 - 109
2-Chlorotoluene	100	ND	93.0	93	65 - 127
2-Hexanone	100	ND	91.0	91	21 - 124
2-Propanone (acetone)	100	ND	92.0	92	29 - 164
4-Chlorotoluene	100	ND	90.0	90	69 - 129
4-Methyl-2-Pentanone(MIBK)	100	ND	92.0	92	31 - 149
Acrylonitrile	100	ND	93.0	93	40 - 145
Benzene	100	ND	93.0	93	71 - 125
Bromobenzene	100	ND	92.0	92	66 - 125
Bromochloromethane	100	ND	91.0	91	64 - 136
Bromodichloromethane	100	ND	89.0	89	74 - 132
Bromoform	100	ND	91.0	91	61 - 133
Bromomethane	100	ND	99.0	99	50 - 162
Carbon Disulfide	100	ND	84.0	84	56 - 138
Carbon tetrachloride	100	ND	92.0	92	73 - 133
Chlorobenzene	100	ND	93.0	93	72 - 127
Chloroethane	100	ND	100	100	62 - 150
Chloroform	100	ND	96.0	96	65 - 147
Chloromethane	100	ND	110	110	64 - 166
Dibromochloromethane	100	ND	94.0	94	71 - 130
Dibromomethane	100	ND	92.0	92	71 - 130
Dichlorodifluoromethane	100	ND	130	130	30 - 132
Ethyl Ether	100	ND	92.0	92	60 - 145
Ethylbenzene	100	ND	91.0	91	80 - 125
Hexachlorobutadiene	100	ND	85.0	85	57 - 120
Isopropylbenzene	100	ND	89.0	89	65 - 131

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9 Fossa Ave - Nashua, NH

MATRIX SPIKE (MS) RECOVERY

Sample ID: AC11121

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
M/P Xylene	200	ND	190	95	83 - 121
Methyl-t-Butyl Ether	100	ND	89.0	89	50 - 124
Methylene Chloride	100	ND	93.0	93	55 - 151
N-Butylbenzene	100	ND	96.0	96	67 - 133
N-Propylbenzene	100	ND	94.0	94	62 - 132
Naphthalene	100	ND	96.0	96	33 - 134
Ortho Xylene	100	ND	97.0	97	76 - 126
Para-Isopropyltoluene	100	ND	95.0	95	70 - 134
Sec-Butylbenzene	100	ND	96.0	96	66 - 132
Styrene	100	ND	97.0	97	54 - 148
Tert-Butylbenzene	100	ND	95.0	95	63 - 134
Tetrachloroethylene	100	88.0	190	102	65 - 124
Tetrahydrofuran	100	ND	90.0	90	37 - 139
Toluene	100	ND	94.0	94	72 - 128
Trans-1,2-Dichloroethylene	100	ND	91.0	91	66 - 131
Trichloroethylene	100	20.0	110	91	72 - 129
Trichlorofluoromethane	100	ND	110	110	67 - 151
Vinyl Acetate	100	ND	86.0	86	32 - 147
Vinyl Chloride	100	8.9	130	121	65 - 151
c-1,3-dichloropropene	100	ND	95.0	95	68 - 126
cis-1,2-Dichloroethylene	100	201	290	89	54 - 141
t-1,3-Dichloropropene	100	ND	97.0	97	68 - 130

9 Fossa Ave - Nashua, NH

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AC11121

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	100	91.0	91	1.10	40
1,1,1-Trichloroethane	100	93.0	93	0.00	40
1,1,2,2-Tetrachloroethane	100	90.0	90	0.00	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	100	100	100	0.00	40
1,1,2-Trichloroethane	100	97.0	97	1.04	40
1,1-Dichloroethylene	100	87.0	87	2.27	40
1,1-Dichloropropene	100	92.0	92	3.31	40
1,1-dichloroethane	100	91.0	91	2.17	40
1,2,3-Trichlorobenzene	100	92.0	92	2.20	40
1,2,3-Trichloropropane	100	90.0	90	1.12	40
1,2,4-Trichlorobenzene	100	89.0	89	2.27	40
1,2,4-Trimethylbenzene	100	99.0	99	0.00	40
1,2-Dibromo-3-Chloropropane	100	91.0	91	0.00	40
1,2-Dibromoethane	100	90.0	90	0.00	40
1,2-Dichlorobenzene	100	92.0	92	0.00	40
1,2-Dichloroethane	100	97.0	97	1.04	40
1,2-Dichloropropane	100	94.0	94	1.07	40
1,3,5-Trimethylbenzene	100	94.0	94	2.15	40
1,3-Dichlorobenzene	100	92.0	92	1.08	40
1,3-Dichloropropane	100	92.0	92	0.00	40
1,4-Dichlorobenzene	100	91.0	91	0.00	40
2,2-Dichloropropane	100	84.0	84	2.35	40
2-Butanone (MEK)	100	88.0	88	3.35	40
2-Chlorotoluene	100	94.0	94	1.07	40
2-Hexanone	100	90.0	90	1.10	40
2-Propanone (acetone)	100	91.0	91	1.09	40
4-Chlorotoluene	100	92.0	92	2.20	40
4-Methyl-2-Pentanone(MIBK)	100	90.0	90	2.20	40
Acrylonitrile	100	91.0	91	2.17	40
Benzene	100	93.0	93	0.00	40
Bromobenzene	100	93.0	93	1.08	40
Bromochloromethane	100	89.0	89	2.22	40
Bromodichloromethane	100	89.0	89	0.00	40
Bromoform	100	90.0	90	1.10	40
Bromomethane	100	99.0	99	0.00	40
Carbon Disulfide	100	84.0	84	0.00	40
Carbon tetrachloride	100	95.0	95	3.21	40
Chlorobenzene	100	94.0	94	1.07	40
Chloroethane	100	99.0	99	1.00	40
Chloroform	100	94.0	94	2.11	40
Chloromethane	100	110	110	0.00	40
Dibromochloromethane	100	92.0	92	2.15	40
Dibromomethane	100	92.0	92	0.00	40
Dichlorodifluoromethane	100	130	130	0.00	40
Ethyl Ether	100	92.0	92	0.00	40
Ethylbenzene	100	92.0	92	1.09	40
Hexachlorobutadiene	100	88.0	88	3.47	40
Isopropylbenzene	100	90.0	90	1.12	40
M/P Xylene	200	180	90	5.41	40

9 Fossa Ave - Nashua, NH

MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Sample ID:AC11121

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
Methyl-t-Butyl Ether	100	88.0	88	1.13	40
Methylene Chloride	100	91.0	91	2.17	40
N-Butylbenzene	100	98.0	98	2.06	40
N-Propylbenzene	100	95.0	95	1.06	40
Naphthalene	100	98.0	98	2.06	40
Ortho Xylene	100	96.0	96	1.04	40
Para-Isopropyltoluene	100	96.0	96	1.05	40
Sec-Butylbenzene	100	98.0	98	2.06	40
Styrene	100	99.0	99	2.04	40
Tert-Butylbenzene	100	99.0	99	4.12	40
Tetrachloroethylene	100	190	102	0.00	40
Tetrahydrofuran	100	87.0	87	3.39	40
Toluene	100	94.0	94	0.00	40
Trans-1,2-Dichloroethylene	100	90.0	90	1.10	40
Trichloroethylene	100	110	91	0.00	40
Trichlorofluoromethane	100	110	110	0.00	40
Vinyl Acetate	100	85.0	85	1.17	40
Vinyl Chloride	100	120	111	8.62	40
c-1,3-dichloropropene	100	96.0	96	1.05	40
cis-1,2-Dichloroethylene	100	290	89	0.00	40
t-1,3-Dichloropropene	100	98.0	98	1.03	40

9 Fossa Ave - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC11121

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	NC	30
1,1,1-Trichloroethane	ND	ND	NC	30
1,1,2,2-Tetrachloroethane	ND	ND	NC	30
1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	ND	NC	30
1,1,2-Trichloroethane	ND	ND	NC	30
1,1-Dichloroethylene	ND	ND	NC	30
1,1-Dichloropropene	ND	ND	NC	30
1,1-dichloroethane	ND	ND	NC	30
1,2,3-Trichlorobenzene	ND	ND	NC	30
1,2,3-Trichloropropane	ND	ND	NC	30
1,2,4-Trichlorobenzene	ND	ND	NC	30
1,2,4-Trimethylbenzene	ND	ND	NC	30
1,2-Dibromo-3-Chloropropane	ND	ND	NC	30
1,2-Dibromoethane	ND	ND	NC	30
1,2-Dichlorobenzene	ND	ND	NC	30
1,2-Dichloroethane	ND	ND	NC	30
1,2-Dichloropropane	ND	ND	NC	30
1,3,5-Trimethylbenzene	ND	ND	NC	30
1,3-Dichlorobenzene	ND	ND	NC	30
1,3-Dichloropropane	ND	ND	NC	30
1,4-Dichlorobenzene	ND	ND	NC	30
2,2-Dichloropropane	ND	ND	NC	30
2-Butanone (MEK)	ND	ND	NC	30
2-Chlorotoluene	ND	ND	NC	30
2-Hexanone	ND	ND	NC	30
2-Propanone (acetone)	ND	ND	NC	30
4-Chlorotoluene	ND	ND	NC	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	NC	30
Acrylonitrile	ND	ND	NC	30
Benzene	ND	ND	NC	30
Bromobenzene	ND	ND	NC	30
Bromochloromethane	ND	ND	NC	30
Bromodichloromethane	ND	ND	NC	30
Bromoform	ND	ND	NC	30
Bromomethane	ND	ND	NC	30
Carbon Disulfide	ND	ND	NC	30
Carbon tetrachloride	ND	ND	NC	30
Chlorobenzene	ND	ND	NC	30
Chloroethane	ND	ND	NC	30
Chloroform	ND	ND	NC	30
Chloromethane	ND	ND	NC	30
Dibromochloromethane	ND	ND	NC	30
Dibromomethane	ND	ND	NC	30
Dichlorodifluoromethane	ND	ND	NC	30
Ethyl Ether	ND	ND	NC	30
Ethylbenzene	ND	ND	NC	30
Hexachlorobutadiene	ND	ND	NC	30
Isopropylbenzene	ND	ND	NC	30
M/P Xylene	ND	ND	NC	30
Methyl-t-Butyl Ether	ND	ND	NC	30
Methylene Chloride	ND	ND	NC	30
N-Butylbenzene	ND	ND	NC	30

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9 Fossa Ave - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC11121

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
N-Propylbenzene	ND	ND	NC	30
Naphthalene	ND	ND	NC	30
Ortho Xylene	ND	ND	NC	30
Para-Isopropyltoluene	ND	ND	NC	30
Sec-Butylbenzene	ND	ND	NC	30
Styrene	ND	ND	NC	30
Tert-Butylbenzene	ND	ND	NC	30
Tetrachloroethylene	88.0	91.0	4.03	30
Tetrahydrofuran	ND	ND	NC	30
Toluene	ND	ND	NC	30
Trans-1,2-Dichloroethylene	ND	ND	NC	30
Trichloroethylene	20.0	21.0	5.49	30
Trichlorofluoromethane	ND	ND	NC	30
Vinyl Acetate	ND	ND	NC	30
Vinyl Chloride	8.9	8.9	0.00	30
c-1,3-dichloropropene	ND	ND	NC	30
cis-1,2-Dichloroethylene	201	210	4.38	30
t-1,3-Dichloropropene	ND	ND	NC	30

9 Fossa Ave - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	19.0	95	80 - 128
1,1,1-Trichloroethane	20	20.0	100	72 - 140
1,1,2,2-Tetrachloroethane	20	18.0	90	77 - 120
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	22.0	110	53 - 153
1,1,2-Trichloroethane	20	19.0	95	79 - 121
1,1-Dichloroethylene	20	20.0	100	59 - 137
1,1-Dichloropropene	20	19.0	95	80 - 132
1,1-dichloroethane	20	20.0	100	74 - 127
1,2,3-Trichlorobenzene	20	19.0	95	58 - 125
1,2,3-Trichloropropane	20	18.0	90	66 - 119
1,2,4-Trichlorobenzene	20	20.0	100	64 - 123
1,2,4-Trimethylbenzene	20	21.0	105	79 - 131
1,2-Dibromo-3-Chloropropane	20	19.0	95	57 - 118
1,2-Dibromoethane	20	18.0	90	74 - 121
1,2-Dichlorobenzene	20	20.0	100	77 - 120
1,2-Dichloroethane	20	20.0	100	80 - 120
1,2-Dichloropropane	20	19.0	95	78 - 122
1,3,5-Trimethylbenzene	20	20.0	100	77 - 127
1,3-Dichlorobenzene	20	20.0	100	76 - 119
1,3-Dichloropropane	20	19.0	95	79 - 117
1,4-Dichlorobenzene	20	19.0	95	75 - 119
2,2-Dichloropropane	20	21.0	105	69 - 143
2-Butanone (MEK)	20	19.0	95	27 - 105
2-Chlorotoluene	20	20.0	100	75 - 122
2-Hexanone	20	18.0	90	34 - 114
2-Propanone (acetone)	20	18.0	90	12 - 209
4-Chlorotoluene	20	20.0	100	77 - 123
4-Methyl-2-Pentanone(MIBK)	20	18.0	90	45 - 142
Acrylonitrile	20	20.0	100	64 - 125
Benzene	20	20.0	100	78 - 120
Bromobenzene	20	20.0	100	73 - 119
Bromochloromethane	20	19.0	95	67 - 135
Bromodichloromethane	20	18.0	90	81 - 123
Bromoform	20	19.0	95	63 - 137
Bromomethane	20	21.0	105	54 - 162
Carbon Disulfide	20	19.0	95	55 - 141
Carbon tetrachloride	20	20.0	100	75 - 134
Chlorobenzene	20	19.0	95	76 - 122
Chloroethane	20	22.0	110	63 - 145
Chloroform	20	20.0	100	73 - 135
Chloromethane	20	25.0	125	59 - 168
Dibromochloromethane	20	19.0	95	79 - 128
Dibromomethane	20	19.0	95	80 - 121
Dichlorodifluoromethane	20	29.0	145	39 - 154
Ethyl Ether	20	20.0	100	69 - 127
Ethylbenzene	20	20.0	100	85 - 118
Hexachlorobutadiene	20	20.0	100	67 - 121
Isopropylbenzene	20	19.0	95	75 - 127
M/P Xylene	40	40.0	100	85 - 121
Methyl-t-Butyl Ether	20	19.0	95	68 - 129
Methylene Chloride	20	21.0	105	70 - 134
N-Butylbenzene	20	21.0	105	75 - 133
N-Propylbenzene	20	20.0	100	76 - 124
Naphthalene	20	20.0	100	45 - 129

9 Fossa Ave - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
Ortho Xylene	20	21.0	105	77 - 127
Para-Isopropyltoluene	20	21.0	105	72 - 138
Sec-Butylbenzene	20	21.0	105	74 - 131
Styrene	20	21.0	105	81 - 131
Tert-Butylbenzene	20	21.0	105	73 - 130
Tetrachloroethylene	20	19.0	95	72 - 118
Tetrahydrofuran	20	19.0	95	62 - 121
Toluene	20	20.0	100	77 - 124
Trans-1,2-Dichloroethylene	20	20.0	100	66 - 135
Trichloroethylene	20	19.0	95	78 - 122
Trichlorofluoromethane	20	24.0	120	65 - 149
Vinyl Acetate	20	21.0	105	61 - 125
Vinyl Chloride	20	24.0	120	57 - 157
c-1,3-dichloropropene	20	20.0	100	75 - 128
cis-1,2-Dichloroethylene	20	20.0	100	67 - 137
t-1,3-Dichloropropene	20	20.0	100	79 - 125

Comments:

9 Fossa Ave - Nashua, NH

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	18	90	5	50
1,1,1-Trichloroethane	19	95	5	50
1,1,2,2-Tetrachloroethane	18	90	0	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	22	110	0	50
1,1,2-Trichloroethane	19	95	0	50
1,1-Dichloroethylene	18	90	11	52
1,1-Dichloropropene	19	95	0	50
1,1-dichloroethane	19	95	5	50
1,2,3-Trichlorobenzene	19	95	0	50
1,2,3-Trichloropropane	18	90	0	50
1,2,4-Trichlorobenzene	19	95	5	50
1,2,4-Trimethylbenzene	21	105	0	50
1,2-Dibromo-3-Chloropropane	19	95	0	50
1,2-Dibromoethane	18	90	0	50
1,2-Dichlorobenzene	19	95	5	50
1,2-Dichloroethane	19	95	5	50
1,2-Dichloropropane	18	90	5	50
1,3,5-Trimethylbenzene	20	100	0	50
1,3-Dichlorobenzene	19	95	5	50
1,3-Dichloropropane	18	90	5	50
1,4-Dichlorobenzene	19	95	0	50
2,2-Dichloropropane	20	100	5	50
2-Butanone (MEK)	19	95	0	50
2-Chlorotoluene	19	95	5	50
2-Hexanone	19	95	5	50
2-Propanone (acetone)	18	90	0	50
4-Chlorotoluene	19	95	5	50
4-Methyl-2-Pentanone(MIBK)	19	95	5	50
Acrylonitrile	20	100	0	50
Benzene	19	95	5	50
Bromobenzene	19	95	5	50
Bromochloromethane	19	95	0	50
Bromodichloromethane	18	90	0	50
Bromoform	19	95	0	50
Bromomethane	20	100	5	50
Carbon Disulfide	17	85	11	50
Carbon tetrachloride	19	95	5	50
Chlorobenzene	19	95	0	50
Chloroethane	21	105	5	50
Chloroform	19	95	5	50
Chloromethane	23	115	8	50
Dibromochloromethane	19	95	0	50
Dibromomethane	19	95	0	50
Dichlorodifluoromethane	27	135	7	50
Ethyl Ether	19	95	5	50
Ethylbenzene	19	95	5	50
Hexachlorobutadiene	18	90	11	50
Isopropylbenzene	19	95	0	50
M/P Xylene	38	95	5	50
Methyl-t-Butyl Ether	19	95	0	50
Methylene Chloride	19	95	10	50
N-Butylbenzene	21	105	0	50

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9 Fossa Ave - Nashua, NH

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
N-Propylbenzene	19	95	5	50
Naphthalene	20	100	0	50
Ortho Xylene	20	100	5	50
Para-Isopropyltoluene	20	100	5	50
Sec-Butylbenzene	20	100	5	50
Styrene	20	100	5	50
Tert-Butylbenzene	20	100	5	50
Tetrachloroethylene	18	90	5	50
Tetrahydrofuran	19	95	0	50
Toluene	19	95	5	50
Trans-1,2-Dichloroethylene	19	95	5	50
Trichloroethylene	18	90	5	50
Trichlorofluoromethane	23	115	4	50
Vinyl Acetate	20	100	5	50
Vinyl Chloride	23	115	4	50
c-1,3-dichloropropene	20	100	0	50
cis-1,2-Dichloroethylene	19	95	5	50
t-1,3-Dichloropropene	20	100	0	50

Samples in Batch: AC11119, AC11120, AC11121, AC11122, AC11123, AC11124, AC11125

No: 1-011824-094003-0001

Fossa Ave VI Site

Lab: EPA LSASD

Lab Phone: 617-918-8490

[illegible]

Special Instructions: Please send sample results to OSC Sherry Banks.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY

[illegible]

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of public health, welfare, or the environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of the contracted Superfund Technical Assessment and Response Team V (START) for EPA Region I New England under START V Contract 68HE0120F0027.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T or IATA Regulations and were collected by Weston Solutions, Inc. (WESTON) START and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as one or more of the following categories:

☒ Environmental ☐ Hazardous ☐ Comb. (Environ. & Haz) ☐ Radioactive

The field team which collected the samples used one of the following Level(s) of personal protections as designated by EPA and OSHA conventions to provide protections against possible radiological or chemical exposure:

☐ Level A ☐ Level B ☐ Level C ☒ Level D

This information is intended for use as a guide for the safe handling of potentially hazardous laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Level(s) of personal protection used by WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

This form was prepared by:

B. Mace

Date:

1/18/24

AD No.

TOPP-01 - 23-04-0003

Case No.

0187

WESTON Office:

Weston, Solutions Inc. - START Region I

Phone:

(978) 552-2100

Address:

101 Billerica Avenue, Building 5, Suite 103
North Billerica, Massachusetts 01862

Fax:

(978) 689-2794

Laboratory Name:

NERL / SASD

Address:

N. Chelmsford MA



MEMORANDUM

To: Laboratory Personnel

From: John Burton, Weston Solutions, Inc.,
Superfund Technical Assessment and Response Team V (START)

Subject: PE Condition Upon Receipt and PE Traceability

Date:

START requests that your laboratory inspect the condition of PE containers (ampules and bottles) upon receipt during the sample log-in process. In addition, a unique PE number is assigned by the PE manufacturer to each ampule/bottle, and START records this PE number on the Chain-of-Custody/Traffic Report (COC/TR). A set of PE instructions is included by the sampler with the COC/TR.

Please contact START *immediately* if you receive broken or compromised PE containers, there is a discrepancy with the PE number recorded on the COC/TR, or you did not receive PE instructions.

START also requests that the unique PE number be carried throughout the analytical preparation documentation, including laboratory extraction or digestion bench sheets. This practice will assist the data validator to investigate the cause of failing PE samples, determine whether the PE was analyzed for the proper test, and was prepared following the correct set of PE instructions. These records, as well as sample log-in documents and PE instructions received by your laboratory, are to be included with the hardcopy data package.

If you have further questions, please contact me at 978-552-2130, or Bill Mahany at 978-552-2113.

Weston Solutions, Inc.
101 Billerica Avenue, Building 5, Suite 103
North Billerica, MA 01862
(978) 552-2100
START V Contract No. 68HE0120F0027



Instructions for Catalog # 710QR

WatR™Pollution Volatiles

Revision 111811

Description:

- This standard is packaged in a 2 mL flame-sealed ampule containing approximately 2 mL of standard concentrate.
- This concentrate is not preserved.
- The solvent for this concentrate is Methanol.
- The concentrate should be stored at $4\pm 2^\circ\text{C}$.
- The diluted standard will contain all or a subset of the analytes listed in the ranges specified on the data reporting form.

Before you begin:

- This standard has been prepared as a concentrate and must be diluted prior to analysis.
- When performing purge and trap analysis, there is a possibility of false positive results for some compounds (bromomethane, chloromethane and others) resulting from thermal decomposition of analytes or trap material, and/or degradation from contaminated transfer lines or traps.
- As the diluted standard is not stable, it must be analyzed **immediately** after the concentrate is diluted.

Instructions:

1. Add 100 mL of organic free, deionized water to a clean 100 mL class A volumetric flask.
2. Carefully snap the top off of the Volatiles ampule.
3. Using a ten-microliter syringe, transfer 5.0 μL of the concentrate below the surface of the water in the flask.
4. Cap the flask and mix by inverting two or three times.
5. Immediately analyze the diluted sample by your normal procedures.
6. Report your results as $\mu\text{g/L}$ for the diluted sample.

Safety:

ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Material Safety Sheets (MSDS) for all ERA products are available by calling 1-800-372-0122.

US EPA REGION 1
SAMPLE RECEIPT CHECKLIST

PROJ #: 24010010		SURVEY NAME: 9 FOSSA AVE LOCATION: NASHUA, NH		OS/PO: ABDINE ONEDRAGO, SHERRY BANKS	
RECEIPT DATE: 01-18-23		REC'D BY: DANIEL CASEY (ESAT)		SITE ID: 01RX SUPERFUND: Y	

COMMENTS: GW SAMPLES 7 # \$VOAMW	WERE SAMPLES SHIPPED? N	<input checked="" type="checkbox"/>
	TRACKING #:	
	DATE/SENT:	
	NO, Hand Delivered	<input checked="" type="checkbox"/>
	COOLER TEMPERATURE UPON ARRIVAL: 33 °C/NA	
	CHAIN OF CUSTODY PRESENT?	<input checked="" type="checkbox"/> Y
	COMPLETE?	<input checked="" type="checkbox"/> Y
	CUSTODY SEALS PRESENT ON COOLERS?	<input checked="" type="checkbox"/> N
	SAMPLES?	<input checked="" type="checkbox"/> N
	WERE SAMPLE CONTAINERS INTACT?	<input checked="" type="checkbox"/> Y
	WAS SAMPLE PRESERVATION DOCUMENTED?	<input checked="" type="checkbox"/> Y
	COC ✓ Sample Container	
	APPROPRIATE SAMPLES VOLUME	
	FOR REQUESTED ANALYSIS?	<input checked="" type="checkbox"/> Y
	SAMPLES AND COC MATCH?	<input checked="" type="checkbox"/> Y
	IF ANY PROBLEMS WAS PROJECT MANAGER NOTIFIED?	
	BY WHOM?	
	APPROPRIATE SAMPLE CONTAINERS?	<input checked="" type="checkbox"/> Y
SAMPLES WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/> Y	
ALL ANALYSIS SPECIFIED ON COC?	<input checked="" type="checkbox"/> Y	
DATE/TIME OF COLLECTION ON COC	<input checked="" type="checkbox"/> Y	
TURN-AROUND TIME: 4 WEEKS		

Laboratory Report

January 29, 2024

Abdine Ouedraogo (2-MI)

Sherry Banks (2-CO)

US EPA New England R1

Project Number: 24010012
Project: 9 Fossa Ave - Nashua, NH
Analysis: Air Toxics by GC/MS
EPA Chemist: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-AIRCAN12.

Samples were analyzed by GC/MS using an quadrapole mass spectrometer. Samples were introduced to the GC via an Entech preconcentrator using cryofocusing. Analysis SOP is based on Compendium Method TO-15, update January 1999.

Conversion of ppbv to ug/m3 = ppbv*(mw/24.45) 24.45 is based on T=25c and P = 760 mm Hg

Date Samples Received by the Laboratory: 01/22/2024

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL
BOUDREAU

Digitally signed by
DANIEL BOUDREAU
Date: 2024.01.29
13:40:45 -05'00'

24010012\$AIRT\$

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20843	Lab Sample ID:	AC11130
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	25 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.5
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	14	
74-87-3	Methylchloride	ND	ND	6.0	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	20	
75-01-4	Vinylchloride	ND	ND	7.4	
106-99-0	1,3-Butadiene	ND	ND	13	
74-83-9	Methylbromide	ND	ND	11	
75-00-3	Chloroethane	ND	ND	37	
593-60-2	Vinyl Bromide	ND	ND	13	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	16	
107-13-1	Acrylonitrile	ND	ND	5.4	
75-35-4	1,1-Dichloroethylene	ND	ND	12	
75-09-2	Methylene chloride	ND	ND	9.9	
107-05-1	Allyl chloride	ND	ND	8.4	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	23	
156-60-5	t-1,2--Dichloroethylene	ND	ND	12	
75-34-3	1,1-Dichloroethane	ND	ND	12	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	11	
78-93-3	Methyl Ethyl Ketone	ND	ND	7.9	
156-59-2	c-1,2-Dichloroethylene	ND	ND	12	
110-54-3	n-Hexane	ND	ND	10	
67-66-3	Chloroform	ND	ND	15	
109-99-9	Tetrahydrofuran	ND	ND	7.6	
107-06-2	1,2-Dichloroethane	ND	ND	12	
71-55-6	1,1,1-Trichloroethane	ND	ND	16	
71-43-2	Benzene	ND	ND	9.5	
56-23-5	Carbon Tetrachloride	ND	ND	18	
110-82-7	Cyclohexane	ND	ND	10	
78-87-5	1,2-Dichloropropane	ND	ND	14	
75-27-4	Bromodichloromethane	ND	ND	19	
79-01-6	Trichloroethylene	69	370	16	
142-82-5	Heptane	ND	ND	12	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	13	
108-10-1	Methyl Isobutyl Ketone	ND	ND	11	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	11	
79-00-5	1,1,2-Trichloroethane	ND	ND	16	
108-88-3	Toluene	ND	ND	11	
591-78-6	2-Hexanone	ND	ND	10	
124-48-1	Dibromochloromethane	ND	ND	24	
106-93-4	1,2-Dibromoethane	ND	ND	22	
127-18-4	Tetrachloroethylene	1700	12000	50	
108-90-7	Chlorobenzene	ND	ND	14	
100-41-4	Ethylbenzene	ND	ND	13	
1330-20-7	m/p-Xylenes	ND	ND	25	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20843	Lab Sample ID:	AC11130
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	25 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.5
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	31	
100-42-5	Styrene	ND	ND	12	
95-47-6	o-Xylene	ND	ND	13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	20	
622-96-8	4-Ethyltoluene	ND	ND	14	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	14	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	14	
541-73-1	1,3-Dichlorobenzene	ND	ND	17	
100-44-7	Benzyl Chloride	ND	ND	13	
106-46-7	1,4-Dichlorobenzene	ND	ND	16	
95-50-1	1,2-Dichlorobenzene	ND	ND	17	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	21	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	31	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	94	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	99	89 - 108

Comments: Tetrachloroethylene is reported from a 10 mL injection.

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20859	Lab Sample ID:	AC11131
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	25 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.488
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	14	
74-87-3	Methylchloride	ND	ND	6.0	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	20	
75-01-4	Vinylchloride	ND	ND	7.3	
106-99-0	1,3-Butadiene	ND	ND	13	
74-83-9	Methylbromide	ND	ND	11	
75-00-3	Chloroethane	ND	ND	37	
593-60-2	Vinyl Bromide	ND	ND	13	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	16	
107-13-1	Acrylonitrile	ND	ND	5.4	
75-35-4	1,1-Dichloroethylene	ND	ND	12	
75-09-2	Methylene chloride	ND	ND	9.9	
107-05-1	Allyl chloride	ND	ND	8.4	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	23	
156-60-5	t-1,2--Dichloroethylene	ND	ND	12	
75-34-3	1,1-Dichloroethane	ND	ND	12	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	11	
78-93-3	Methyl Ethyl Ketone	ND	ND	7.9	
156-59-2	c-1,2-Dichloroethylene	3.1	12	12	
110-54-3	n-Hexane	ND	ND	10	
67-66-3	Chloroform	ND	ND	15	
109-99-9	Tetrahydrofuran	ND	ND	7.6	
107-06-2	1,2-Dichloroethane	ND	ND	12	
71-55-6	1,1,1-Trichloroethane	ND	ND	16	
71-43-2	Benzene	ND	ND	9.4	
56-23-5	Carbon Tetrachloride	ND	ND	18	
110-82-7	Cyclohexane	ND	ND	10	
78-87-5	1,2-Dichloropropane	ND	ND	14	
75-27-4	Bromodichloromethane	ND	ND	19	
79-01-6	Trichloroethylene	91	490	16	
142-82-5	Heptane	ND	ND	12	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	13	
108-10-1	Methyl Isobutyl Ketone	ND	ND	11	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	11	
79-00-5	1,1,2-Trichloroethane	ND	ND	16	
108-88-3	Toluene	ND	ND	11	
591-78-6	2-Hexanone	ND	ND	10	
124-48-1	Dibromochloromethane	ND	ND	24	
106-93-4	1,2-Dibromoethane	ND	ND	22	
127-18-4	Tetrachloroethylene	1700	12000	50	
108-90-7	Chlorobenzene	ND	ND	14	
100-41-4	Ethylbenzene	ND	ND	13	
1330-20-7	m/p-Xylenes	ND	ND	25	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20859	Lab Sample ID:	AC11131
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	25 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.488
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	31	
100-42-5	Styrene	ND	ND	12	
95-47-6	o-Xylene	ND	ND	13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	20	
622-96-8	4-Ethyltoluene	ND	ND	14	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	14	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	14	
541-73-1	1,3-Dichlorobenzene	ND	ND	17	
100-44-7	Benzyl Chloride	ND	ND	12	
106-46-7	1,4-Dichlorobenzene	ND	ND	16	
95-50-1	1,2-Dichlorobenzene	ND	ND	17	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	21	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	31	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	96	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	99	89 - 108

Comments: Tetrachloroethylene is reported from a 10 mL injection.

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	6462	Lab Sample ID:	AC11132
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	25 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.491
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	14	
74-87-3	Methylchloride	ND	ND	6.0	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	20	
75-01-4	Vinylchloride	ND	ND	7.3	
106-99-0	1,3-Butadiene	ND	ND	13	
74-83-9	Methylbromide	ND	ND	11	
75-00-3	Chloroethane	ND	ND	37	
593-60-2	Vinyl Bromide	ND	ND	13	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	16	
107-13-1	Acrylonitrile	ND	ND	5.4	
75-35-4	1,1-Dichloroethylene	ND	ND	12	
75-09-2	Methylene chloride	ND	ND	9.9	
107-05-1	Allyl chloride	ND	ND	8.4	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	23	
156-60-5	t-1,2--Dichloroethylene	ND	ND	12	
75-34-3	1,1-Dichloroethane	ND	ND	12	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	11	
78-93-3	Methyl Ethyl Ketone	ND	ND	7.9	
156-59-2	c-1,2-Dichloroethylene	3.6	14	12	
110-54-3	n-Hexane	ND	ND	10	
67-66-3	Chloroform	ND	ND	15	
109-99-9	Tetrahydrofuran	ND	ND	7.6	
107-06-2	1,2-Dichloroethane	ND	ND	12	
71-55-6	1,1,1-Trichloroethane	ND	ND	16	
71-43-2	Benzene	ND	ND	9.4	
56-23-5	Carbon Tetrachloride	ND	ND	18	
110-82-7	Cyclohexane	ND	ND	10	
78-87-5	1,2-Dichloropropane	ND	ND	14	
75-27-4	Bromodichloromethane	ND	ND	19	
79-01-6	Trichloroethylene	87	470	16	
142-82-5	Heptane	ND	ND	12	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	13	
108-10-1	Methyl Isobutyl Ketone	ND	ND	11	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	11	
79-00-5	1,1,2-Trichloroethane	ND	ND	16	
108-88-3	Toluene	ND	ND	11	
591-78-6	2-Hexanone	ND	ND	10	
124-48-1	Dibromochloromethane	ND	ND	24	
106-93-4	1,2-Dibromoethane	ND	ND	22	
127-18-4	Tetrachloroethylene	1400	9500	50	
108-90-7	Chlorobenzene	ND	ND	14	
100-41-4	Ethylbenzene	ND	ND	13	
1330-20-7	m/p-Xylenes	ND	ND	25	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	6462	Lab Sample ID:	AC11132
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	25 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.491
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	31	
100-42-5	Styrene	ND	ND	12	
95-47-6	o-Xylene	ND	ND	13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	20	
622-96-8	4-Ethyltoluene	ND	ND	14	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	14	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	14	
541-73-1	1,3-Dichlorobenzene	ND	ND	17	
100-44-7	Benzyl Chloride	ND	ND	12	
106-46-7	1,4-Dichlorobenzene	ND	ND	16	
95-50-1	1,2-Dichlorobenzene	ND	ND	17	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	21	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	31	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	98	89 - 130
Bromofluorobenzene (SS3)	95	84 - 111
Toluene,d8 (SS2)	101	89 - 108

Comments: Tetrachloroethylene is reported from a 10 mL injection.

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1589	Lab Sample ID:	AC11133
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	50 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.507
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	1.9	9.6	7.2	
74-87-3	Methylchloride	ND	ND	3.0	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	9.8	
75-01-4	Vinylchloride	ND	ND	3.7	
106-99-0	1,3-Butadiene	ND	ND	6.4	
74-83-9	Methylbromide	ND	ND	5.5	
75-00-3	Chloroethane	ND	ND	19	
593-60-2	Vinyl Bromide	ND	ND	6.4	
75-69-4	Trichloromonofluoromethane (F11)	5.5	31	7.9	
107-13-1	Acrylonitrile	ND	ND	2.7	
75-35-4	1,1-Dichloroethylene	ND	ND	5.9	
75-09-2	Methylene chloride	ND	ND	5.0	
107-05-1	Allyl chloride	ND	ND	4.2	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	12	
156-60-5	t-1,2--Dichloroethylene	ND	ND	5.9	
75-34-3	1,1-Dichloroethane	ND	ND	5.9	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	5.3	
78-93-3	Methyl Ethyl Ketone	ND	ND	4.0	
156-59-2	c-1,2-Dichloroethylene	ND	ND	5.8	
110-54-3	n-Hexane	ND	ND	5.2	
67-66-3	Chloroform	ND	ND	7.3	
109-99-9	Tetrahydrofuran	ND	ND	3.8	
107-06-2	1,2-Dichloroethane	ND	ND	5.9	
71-55-6	1,1,1-Trichloroethane	ND	ND	8.0	
71-43-2	Benzene	ND	ND	4.7	
56-23-5	Carbon Tetrachloride	ND	ND	9.2	
110-82-7	Cyclohexane	ND	ND	5.1	
78-87-5	1,2-Dichloropropane	ND	ND	6.8	
75-27-4	Bromodichloromethane	ND	ND	9.3	
79-01-6	Trichloroethylene	ND	ND	8.1	
142-82-5	Heptane	ND	ND	5.9	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	6.6	
108-10-1	Methyl Isobutyl Ketone	ND	ND	5.6	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	5.7	
79-00-5	1,1,2-Trichloroethane	ND	ND	8.0	
108-88-3	Toluene	ND	ND	5.7	
591-78-6	2-Hexanone	ND	ND	5.2	
124-48-1	Dibromochloromethane	ND	ND	12	
106-93-4	1,2-Dibromoethane	ND	ND	11	
127-18-4	Tetrachloroethylene	160	1100	10.0	
108-90-7	Chlorobenzene	ND	ND	6.8	
100-41-4	Ethylbenzene	ND	ND	6.4	
1330-20-7	m/p-Xylenes	ND	ND	13	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1589	Lab Sample ID:	AC11133
Date of Collection:	1/17/2024	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	50 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.507
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	15	
100-42-5	Styrene	ND	ND	5.8	
95-47-6	o-Xylene	ND	ND	6.4	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	10	
622-96-8	4-Ethyltoluene	ND	ND	7.1	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	7.2	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	6.9	
541-73-1	1,3-Dichlorobenzene	ND	ND	8.5	
100-44-7	Benzyl Chloride	ND	ND	6.2	
106-46-7	1,4-Dichlorobenzene	ND	ND	8.0	
95-50-1	1,2-Dichlorobenzene	ND	ND	8.4	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	11	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	16	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	96	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	101	89 - 108

Comments:

9 Fossa Ave - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	500 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.21	
74-87-3	Methylchloride	ND	ND	0.086	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.28	
75-01-4	Vinylchloride	ND	ND	0.11	
106-99-0	1,3-Butadiene	ND	ND	0.18	
74-83-9	Methylbromide	ND	ND	0.16	
75-00-3	Chloroethane	ND	ND	0.53	
593-60-2	Vinyl Bromide	ND	ND	0.18	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	0.23	
107-13-1	Acrylonitrile	ND	ND	0.077	
75-35-4	1,1-Dichloroethylene	ND	ND	0.17	
75-09-2	Methylene chloride	ND	ND	0.14	
107-05-1	Allyl chloride	ND	ND	0.12	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.33	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.17	
75-34-3	1,1-Dichloroethane	ND	ND	0.17	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.15	
78-93-3	Methyl Ethyl Ketone	ND	ND	0.11	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.17	
110-54-3	n-Hexane	ND	ND	0.15	
67-66-3	Chloroform	ND	ND	0.21	
109-99-9	Tetrahydrofuran	ND	ND	0.11	
107-06-2	1,2-Dichloroethane	ND	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.23	
71-43-2	Benzene	ND	ND	0.14	
56-23-5	Carbon Tetrachloride	ND	ND	0.26	
110-82-7	Cyclohexane	ND	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	ND	0.19	
75-27-4	Bromodichloromethane	ND	ND	0.27	
79-01-6	Trichloroethylene	ND	ND	0.23	
142-82-5	Heptane	ND	ND	0.17	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.19	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.16	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.23	
108-88-3	Toluene	ND	ND	0.16	
591-78-6	2-Hexanone	ND	ND	0.15	
124-48-1	Dibromochloromethane	ND	ND	0.34	
106-93-4	1,2-Dibromoethane	ND	ND	0.31	
127-18-4	Tetrachloroethylene	ND	ND	0.29	
108-90-7	Chlorobenzene	ND	ND	0.19	
100-41-4	Ethylbenzene	ND	ND	0.18	
1330-20-7	m/p-Xylenes	ND	ND	0.36	

9 Fossa Ave - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil Gas
Date of Preparation:	1/23/2024	Amount Prepared:	500 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.44	
100-42-5	Styrene	ND	ND	0.17	
95-47-6	o-Xylene	ND	ND	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.29	
622-96-8	4-Ethyltoluene	ND	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.24	
100-44-7	Benzyl Chloride	ND	ND	0.18	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.23	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.24	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.31	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.45	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	103	89 - 130
Bromofluorobenzene (SS3)	94	84 - 111
Toluene,d8 (SS2)	97	89 - 108

Comments: Method blank for all samples

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13499	Lab Sample ID:	AC11134
Date of Collection:	1/18/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.447
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	3.6	
74-87-3	Methylchloride	ND	ND	1.5	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	4.8	
75-01-4	Vinylchloride	ND	ND	1.8	
106-99-0	1,3-Butadiene	ND	ND	3.1	
74-83-9	Methylbromide	ND	ND	2.7	
75-00-3	Chloroethane	ND	ND	9.2	
593-60-2	Vinyl Bromide	ND	ND	3.1	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	3.9	
107-13-1	Acrylonitrile	ND	ND	1.3	
75-35-4	1,1-Dichloroethylene	ND	ND	2.9	
75-09-2	Methylene chloride	ND	ND	2.5	
107-05-1	Allyl chloride	ND	ND	2.1	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	5.7	
156-60-5	t-1,2--Dichloroethylene	ND	ND	2.9	
75-34-3	1,1-Dichloroethane	ND	ND	2.9	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.6	
78-93-3	Methyl Ethyl Ketone	ND	ND	2.0	
156-59-2	c-1,2-Dichloroethylene	ND	ND	2.8	
110-54-3	n-Hexane	ND	ND	2.6	
67-66-3	Chloroform	ND	ND	3.6	
109-99-9	Tetrahydrofuran	ND	ND	1.9	
107-06-2	1,2-Dichloroethane	ND	ND	2.9	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.0	
71-43-2	Benzene	ND	ND	2.3	
56-23-5	Carbon Tetrachloride	ND	ND	4.5	
110-82-7	Cyclohexane	ND	ND	2.5	
78-87-5	1,2-Dichloropropane	ND	ND	3.3	
75-27-4	Bromodichloromethane	ND	ND	4.6	
79-01-6	Trichloroethylene	ND	ND	4.0	
142-82-5	Heptane	ND	ND	2.9	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.3	
108-10-1	Methyl Isobutyl Ketone	ND	ND	2.7	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	2.8	
79-00-5	1,1,2-Trichloroethane	ND	ND	3.9	
108-88-3	Toluene	ND	ND	2.8	
591-78-6	2-Hexanone	ND	ND	2.5	
124-48-1	Dibromochloromethane	ND	ND	5.8	
106-93-4	1,2-Dibromoethane	ND	ND	5.4	
127-18-4	Tetrachloroethylene	14	97	4.9	
108-90-7	Chlorobenzene	ND	ND	3.3	
100-41-4	Ethylbenzene	ND	ND	3.1	
1330-20-7	m/p-Xylenes	ND	ND	6.2	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13499	Lab Sample ID:	AC11134
Date of Collection:	1/18/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.447
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	7.6	
100-42-5	Styrene	ND	ND	2.8	
95-47-6	o-Xylene	ND	ND	3.1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.0	
622-96-8	4-Ethyltoluene	ND	ND	3.5	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	3.6	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	3.4	
541-73-1	1,3-Dichlorobenzene	ND	ND	4.2	
100-44-7	Benzyl Chloride	ND	ND	3.1	
106-46-7	1,4-Dichlorobenzene	ND	ND	3.9	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.1	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.3	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	7.7	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	101	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	100	89 - 108

Comments:

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	3092	Lab Sample ID:	AC11135
Date of Collection:	1/18/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.423
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	27	130	3.5	
74-87-3	Methylchloride	ND	ND	1.5	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	4.8	
75-01-4	Vinylchloride	ND	ND	1.8	
106-99-0	1,3-Butadiene	ND	ND	3.1	
74-83-9	Methylbromide	ND	ND	2.7	
75-00-3	Chloroethane	ND	ND	9.1	
593-60-2	Vinyl Bromide	ND	ND	3.1	
75-69-4	Trichloromonofluoromethane (F11)	1.2	6.5	3.9	
107-13-1	Acrylonitrile	ND	ND	1.3	
75-35-4	1,1-Dichloroethylene	ND	ND	2.9	
75-09-2	Methylene chloride	ND	ND	2.4	
107-05-1	Allyl chloride	ND	ND	2.1	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	5.7	
156-60-5	t-1,2--Dichloroethylene	ND	ND	2.9	
75-34-3	1,1-Dichloroethane	ND	ND	2.9	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.6	
78-93-3	Methyl Ethyl Ketone	ND	ND	1.9	
156-59-2	c-1,2-Dichloroethylene	ND	ND	2.8	
110-54-3	n-Hexane	ND	ND	2.5	
67-66-3	Chloroform	ND	ND	3.6	
109-99-9	Tetrahydrofuran	ND	ND	1.9	
107-06-2	1,2-Dichloroethane	ND	ND	2.9	
71-55-6	1,1,1-Trichloroethane	ND	ND	3.9	
71-43-2	Benzene	ND	ND	2.3	
56-23-5	Carbon Tetrachloride	ND	ND	4.5	
110-82-7	Cyclohexane	ND	ND	2.5	
78-87-5	1,2-Dichloropropane	ND	ND	3.3	
75-27-4	Bromodichloromethane	ND	ND	4.6	
79-01-6	Trichloroethylene	ND	ND	4.0	
142-82-5	Heptane	ND	ND	2.9	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.2	
108-10-1	Methyl Isobutyl Ketone	ND	ND	2.7	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	2.8	
79-00-5	1,1,2-Trichloroethane	ND	ND	3.9	
108-88-3	Toluene	0.76	2.9	2.8	
591-78-6	2-Hexanone	ND	ND	2.5	
124-48-1	Dibromochloromethane	ND	ND	5.8	
106-93-4	1,2-Dibromoethane	ND	ND	5.4	
127-18-4	Tetrachloroethylene	73	500	4.9	
108-90-7	Chlorobenzene	ND	ND	3.3	
100-41-4	Ethylbenzene	ND	ND	3.1	
1330-20-7	m/p-Xylenes	ND	ND	6.2	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	3092	Lab Sample ID:	AC11135
Date of Collection:	1/18/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.423
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	7.5	
100-42-5	Styrene	ND	ND	2.8	
95-47-6	o-Xylene	ND	ND	3.1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	4.9	
622-96-8	4-Ethyltoluene	ND	ND	3.4	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	3.5	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	3.4	
541-73-1	1,3-Dichlorobenzene	ND	ND	4.2	
100-44-7	Benzyl Chloride	ND	ND	3.1	
106-46-7	1,4-Dichlorobenzene	ND	ND	3.9	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.1	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.2	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	7.7	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	102	89 - 130
Bromofluorobenzene (SS3)	95	84 - 111
Toluene,d8 (SS2)	100	89 - 108

Comments:

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20845	Lab Sample ID:	AC11136
Date of Collection:	1/18/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.499
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	3.6	
74-87-3	Methylchloride	ND	ND	1.5	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	4.9	
75-01-4	Vinylchloride	ND	ND	1.8	
106-99-0	1,3-Butadiene	ND	ND	3.2	
74-83-9	Methylbromide	ND	ND	2.8	
75-00-3	Chloroethane	ND	ND	9.3	
593-60-2	Vinyl Bromide	ND	ND	3.2	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	3.9	
107-13-1	Acrylonitrile	ND	ND	1.4	
75-35-4	1,1-Dichloroethylene	ND	ND	2.9	
75-09-2	Methylene chloride	ND	ND	2.5	
107-05-1	Allyl chloride	ND	ND	2.1	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	5.8	
156-60-5	t-1,2--Dichloroethylene	ND	ND	2.9	
75-34-3	1,1-Dichloroethane	ND	ND	2.9	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.6	
78-93-3	Methyl Ethyl Ketone	ND	ND	2.0	
156-59-2	c-1,2-Dichloroethylene	ND	ND	2.9	
110-54-3	n-Hexane	ND	ND	2.6	
67-66-3	Chloroform	ND	ND	3.7	
109-99-9	Tetrahydrofuran	ND	ND	1.9	
107-06-2	1,2-Dichloroethane	ND	ND	2.9	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.0	
71-43-2	Benzene	ND	ND	2.4	
56-23-5	Carbon Tetrachloride	ND	ND	4.6	
110-82-7	Cyclohexane	ND	ND	2.5	
78-87-5	1,2-Dichloropropane	ND	ND	3.4	
75-27-4	Bromodichloromethane	ND	ND	4.7	
79-01-6	Trichloroethylene	ND	ND	4.1	
142-82-5	Heptane	ND	ND	2.9	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.3	
108-10-1	Methyl Isobutyl Ketone	ND	ND	2.8	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	2.8	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.0	
108-88-3	Toluene	ND	ND	2.8	
591-78-6	2-Hexanone	ND	ND	2.6	
124-48-1	Dibromochloromethane	ND	ND	5.9	
106-93-4	1,2-Dibromoethane	ND	ND	5.5	
127-18-4	Tetrachloroethylene	15	100	5.0	
108-90-7	Chlorobenzene	ND	ND	3.4	
100-41-4	Ethylbenzene	ND	ND	3.2	
1330-20-7	m/p-Xylenes	ND	ND	6.3	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20845	Lab Sample ID:	AC11136
Date of Collection:	1/18/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.499
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	7.7	
100-42-5	Styrene	ND	ND	2.9	
95-47-6	o-Xylene	ND	ND	3.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.0	
622-96-8	4-Ethyltoluene	ND	ND	3.5	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	3.6	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	3.5	
541-73-1	1,3-Dichlorobenzene	ND	ND	4.3	
100-44-7	Benzyl Chloride	ND	ND	3.1	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.0	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.2	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.4	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	7.8	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	99	89 - 130
Bromofluorobenzene (SS3)	97	84 - 111
Toluene,d8 (SS2)	99	89 - 108

Comments:

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	4778	Lab Sample ID:	AC11137
Date of Collection:	1/19/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.641
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	3.8	
74-87-3	Methylchloride	ND	ND	1.6	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	5.1	
75-01-4	Vinylchloride	ND	ND	1.9	
106-99-0	1,3-Butadiene	ND	ND	3.3	
74-83-9	Methylbromide	ND	ND	2.9	
75-00-3	Chloroethane	ND	ND	9.7	
593-60-2	Vinyl Bromide	ND	ND	3.3	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	4.1	
107-13-1	Acrylonitrile	ND	ND	1.4	
75-35-4	1,1-Dichloroethylene	ND	ND	3.1	
75-09-2	Methylene chloride	ND	ND	2.6	
107-05-1	Allyl chloride	ND	ND	2.2	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	6.0	
156-60-5	t-1,2--Dichloroethylene	ND	ND	3.0	
75-34-3	1,1-Dichloroethane	ND	ND	3.0	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.8	
78-93-3	Methyl Ethyl Ketone	ND	ND	2.1	
156-59-2	c-1,2-Dichloroethylene	ND	ND	3.0	
110-54-3	n-Hexane	7.6	27	2.7	
67-66-3	Chloroform	ND	ND	3.8	
109-99-9	Tetrahydrofuran	ND	ND	2.0	
107-06-2	1,2-Dichloroethane	ND	ND	3.0	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.2	
71-43-2	Benzene	3.6	12	2.5	
56-23-5	Carbon Tetrachloride	ND	ND	4.8	
110-82-7	Cyclohexane	4.8	16	2.6	
78-87-5	1,2-Dichloropropane	ND	ND	3.5	
75-27-4	Bromodichloromethane	ND	ND	4.8	
79-01-6	Trichloroethylene	ND	ND	4.2	
142-82-5	Heptane	2.3	9.3	3.0	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.4	
108-10-1	Methyl Isobutyl Ketone	ND	ND	2.9	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	3.0	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.1	
108-88-3	Toluene	80	300	2.9	
591-78-6	2-Hexanone	ND	ND	2.7	
124-48-1	Dibromochloromethane	ND	ND	6.2	
106-93-4	1,2-Dibromoethane	ND	ND	5.7	
127-18-4	Tetrachloroethylene	4.6	31	5.2	
108-90-7	Chlorobenzene	ND	ND	3.5	
100-41-4	Ethylbenzene	20	85	3.3	
1330-20-7	m/p-Xylenes	61	270	6.6	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	4778	Lab Sample ID:	AC11137
Date of Collection:	1/19/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.641
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	8.0	
100-42-5	Styrene	ND	ND	3.0	
95-47-6	o-Xylene	23	98	3.3	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.2	
622-96-8	4-Ethyltoluene	2.1	10	3.7	
108-67-8	1,3,5-Trimethylbenzene	1.7	8.2	3.8	
95-63-6	1,2,4-Trimethylbenzene	4.4	22	3.6	
541-73-1	1,3-Dichlorobenzene	ND	ND	4.4	
100-44-7	Benzyl Chloride	ND	ND	3.2	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.2	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.3	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.6	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	8.2	

Surrogate Compounds

Recoveries (%)

QC Ranges

1,2-Dichloroethane,d4 (SS1)	101	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	94	89 - 108

Comments: Tentatively Identify non-Target Compounds

CAS#	Name
589-34-4	Hexane, 3-methyl-
590-73-8	Hexane, 2,2-dimethyl-
108-87-2	Cyclohexane, methyl-
592-27-8	Heptane, 2-methyl-
589-81-1	Heptane, 3-methyl-
0-00-0	Octane
1632-70-8	Undecane, 5-methyl-
2216-33-3	Octane, 3-methyl-
111-84-2	Nonane
526-73-8	Benzene, 1,2,3-trimethyl-

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13500	Lab Sample ID:	AC11138
Date of Collection:	1/19/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.705
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	3.8	
74-87-3	Methylchloride	ND	ND	1.6	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	5.2	
75-01-4	Vinylchloride	ND	ND	2.0	
106-99-0	1,3-Butadiene	ND	ND	3.4	
74-83-9	Methylbromide	ND	ND	2.9	
75-00-3	Chloroethane	ND	ND	9.9	
593-60-2	Vinyl Bromide	ND	ND	3.4	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	4.2	
107-13-1	Acrylonitrile	ND	ND	1.4	
75-35-4	1,1-Dichloroethylene	ND	ND	3.1	
75-09-2	Methylene chloride	ND	ND	2.6	
107-05-1	Allyl chloride	ND	ND	2.2	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	6.1	
156-60-5	t-1,2--Dichloroethylene	ND	ND	3.1	
75-34-3	1,1-Dichloroethane	ND	ND	3.1	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.8	
78-93-3	Methyl Ethyl Ketone	ND	ND	2.1	
156-59-2	c-1,2-Dichloroethylene	ND	ND	3.1	
110-54-3	n-Hexane	4.3	15	2.7	
67-66-3	Chloroform	ND	ND	3.9	
109-99-9	Tetrahydrofuran	ND	ND	2.0	
107-06-2	1,2-Dichloroethane	ND	ND	3.1	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.2	
71-43-2	Benzene	2.4	7.6	2.5	
56-23-5	Carbon Tetrachloride	ND	ND	4.9	
110-82-7	Cyclohexane	3.2	11	2.7	
78-87-5	1,2-Dichloropropane	ND	ND	3.6	
75-27-4	Bromodichloromethane	ND	ND	4.9	
79-01-6	Trichloroethylene	ND	ND	4.3	
142-82-5	Heptane	1.5	6.1	3.1	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.5	
108-10-1	Methyl Isobutyl Ketone	ND	ND	3.0	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	3.0	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.2	
108-88-3	Toluene	45	170	3.0	
591-78-6	2-Hexanone	ND	ND	2.7	
124-48-1	Dibromochloromethane	ND	ND	6.3	
106-93-4	1,2-Dibromoethane	ND	ND	5.8	
127-18-4	Tetrachloroethylene	4.0	27	5.3	
108-90-7	Chlorobenzene	ND	ND	3.6	
100-41-4	Ethylbenzene	12	50	3.4	
1330-20-7	m/p-Xylenes	37	160	6.7	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13500	Lab Sample ID:	AC11138
Date of Collection:	1/19/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.705
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	8.1	
100-42-5	Styrene	ND	ND	3.1	
95-47-6	o-Xylene	14	59	3.4	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.3	
622-96-8	4-Ethyltoluene	1.2	5.7	3.7	
108-67-8	1,3,5-Trimethylbenzene	1.0	4.9	3.8	
95-63-6	1,2,4-Trimethylbenzene	3.0	14	3.7	
541-73-1	1,3-Dichlorobenzene	ND	ND	4.5	
100-44-7	Benzyl Chloride	ND	ND	3.3	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.2	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.4	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.7	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	8.3	

Surrogate Compounds

Recoveries (%)

QC Ranges

1,2-Dichloroethane,d4 (SS1)	95	89 - 130
Bromofluorobenzene (SS3)	98	84 - 111
Toluene,d8 (SS2)	98	89 - 108

Comments: Tentatively Identified non-Target Compounds

CAS#	Name
589-34-4	Hexane, 3-methyl-
592-27-8	Heptane, 2-methyl-
589-81-1	Heptane, 3-methyl-
0-00-0	Octane
1632-70-8	Undecane, 5-methyl-
2216-33-3	Octane, 3-methyl-
108-67-8	Mesitylene

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20844	Lab Sample ID:	AC11139
Date of Collection:	1/19/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.528
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	3.6	
74-87-3	Methylchloride	ND	ND	1.5	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	4.9	
75-01-4	Vinylchloride	ND	ND	1.9	
106-99-0	1,3-Butadiene	ND	ND	3.2	
74-83-9	Methylbromide	ND	ND	2.8	
75-00-3	Chloroethane	ND	ND	9.4	
593-60-2	Vinyl Bromide	ND	ND	3.2	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	4.0	
107-13-1	Acrylonitrile	ND	ND	1.4	
75-35-4	1,1-Dichloroethylene	ND	ND	3.0	
75-09-2	Methylene chloride	ND	ND	2.5	
107-05-1	Allyl chloride	ND	ND	2.1	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	5.8	
156-60-5	t-1,2--Dichloroethylene	ND	ND	3.0	
75-34-3	1,1-Dichloroethane	ND	ND	3.0	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.7	
78-93-3	Methyl Ethyl Ketone	ND	ND	2.0	
156-59-2	c-1,2-Dichloroethylene	ND	ND	2.9	
110-54-3	n-Hexane	7.1	25	2.6	
67-66-3	Chloroform	ND	ND	3.7	
109-99-9	Tetrahydrofuran	ND	ND	1.9	
107-06-2	1,2-Dichloroethane	ND	ND	3.0	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.0	
71-43-2	Benzene	3.7	12	2.4	
56-23-5	Carbon Tetrachloride	ND	ND	4.6	
110-82-7	Cyclohexane	6.3	22	2.6	
78-87-5	1,2-Dichloropropane	ND	ND	3.4	
75-27-4	Bromodichloromethane	ND	ND	4.7	
79-01-6	Trichloroethylene	ND	ND	4.1	
142-82-5	Heptane	ND	ND	3.0	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.3	
108-10-1	Methyl Isobutyl Ketone	ND	ND	2.8	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	2.9	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.0	
108-88-3	Toluene	94	350	2.8	
591-78-6	2-Hexanone	ND	ND	2.6	
124-48-1	Dibromochloromethane	ND	ND	6.0	
106-93-4	1,2-Dibromoethane	ND	ND	5.5	
127-18-4	Tetrachloroethylene	19	130	5.0	
108-90-7	Chlorobenzene	ND	ND	3.4	
100-41-4	Ethylbenzene	31	130	3.2	
1330-20-7	m/p-Xylenes	100	440	6.4	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20844	Lab Sample ID:	AC11139
Date of Collection:	1/19/2024	Matrix:	Soil Vapor
Date of Preparation:	1/23/2024	Amount Prepared:	100 mL
Date of Analysis:	1/23/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.528
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	7.7	
100-42-5	Styrene	ND	ND	2.9	
95-47-6	o-Xylene	41	180	3.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.1	
622-96-8	4-Ethyltoluene	4.2	20	3.6	
108-67-8	1,3,5-Trimethylbenzene	3.2	16	3.6	
95-63-6	1,2,4-Trimethylbenzene	9.1	45	3.5	
541-73-1	1,3-Dichlorobenzene	ND	ND	4.3	
100-44-7	Benzyl Chloride	ND	ND	3.1	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.0	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.2	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.4	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	7.9	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	98	89 - 108

Comments:

9 Fossa Ave - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC11133

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
1,1,1-Trichloroethane	ND	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	ND	50
1,1,2-Trichloroethane	ND	ND	ND	50
1,1-Dichloroethane	ND	ND	ND	50
1,1-Dichloroethylene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2,4-Trimethylbenzene	ND	ND	ND	50
1,2-Dibromoethane	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,2-Dichloroethane	ND	ND	ND	50
1,2-Dichloropropane	ND	ND	ND	50
1,3,5-Trimethylbenzene	ND	ND	ND	50
1,3-Butadiene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
2-Hexanone	ND	ND	ND	50
4-Ethyltoluene	ND	ND	ND	50
Acrylonitrile	ND	ND	ND	50
Allyl chloride	ND	ND	ND	50
Benzene	ND	ND	ND	50
Benzyl Chloride	ND	ND	ND	50
Bromodichloromethane	ND	ND	ND	50
Bromoform	ND	ND	ND	50
Carbon Tetrachloride	ND	ND	ND	50
Chlorobenzene	ND	ND	ND	50
Chloroethane	ND	ND	ND	50
Chloroform	ND	ND	ND	50
Cyclohexane	ND	ND	ND	50
Dibromochloromethane	ND	ND	ND	50
Dichlorodifluoromethane	1.945	2.23	13.7	50
Dichlorotetrafluoroethane	ND	ND	ND	50
Ethylbenzene	ND	ND	ND	50
Heptane	ND	ND	ND	50
Hexachloro-1,3-butadiene	ND	ND	ND	50
Methyl Ethyl Ketone	ND	ND	ND	50
Methyl Isobutyl Ketone	ND	ND	ND	50
Methyl-t-Butyl Ether	ND	ND	ND	50
Methylbromide	ND	ND	ND	50
Methylchloride	ND	ND	ND	50
Methylene chloride	ND	ND	ND	50
Styrene	ND	ND	ND	50
Tetrachloroethylene	160	160	0.00	50
Tetrahydrofuran	ND	ND	ND	50
Toluene	ND	ND	ND	50
Trichloroethylene	ND	ND	ND	50
Trichloromonofluoromethane (F11)	5.535	5.737	3.58	50

9 Fossa Ave - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC11133

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
Trichlorotrifluoromethane (F113)	ND	ND	ND	50
Vinyl Bromide	ND	ND	ND	50
Vinylchloride	ND	ND	ND	50
c-1,2-Dichloroethylene	ND	ND	ND	50
c-1,3-Dichloropropylene	ND	ND	ND	50
m/p-Xylenes	ND	ND	ND	50
n-Hexane	ND	ND	ND	50
o-Xylene	ND	ND	ND	50
t-1,2--Dichloroethylene	ND	ND	ND	50
t-1,3-Dichloropropylene	ND	ND	ND	50

Comments:

9 Fossa Ave - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ppb/V	LFB RESULT ppb/V	LFB RECOVERY %	QC LIMITS %
1,1,1-Trichloroethane	0.400	0.389	97	73 - 131
1,1,2,2-Tetrachloroethane	0.400	0.330	83	64 - 139
1,1,2-Trichloroethane	0.396	0.363	92	79 - 126
1,1-Dichloroethane	0.392	0.340	87	83 - 134
1,1-Dichloroethylene	0.404	0.385	95	86 - 135
1,2,4-Trichlorobenzene	0.392	0.461	118	40 - 160
1,2,4-Trimethylbenzene	0.385	0.425	110	35 - 159
1,2-Dibromoethane	0.389	0.334	86	40 - 160
1,2-Dichlorobenzene	0.377	0.359	95	52 - 137
1,2-Dichloroethane	0.392	0.363	93	81 - 139
1,2-Dichloropropane	0.400	0.404	101	82 - 128
1,3,5-Trimethylbenzene	0.400	0.421	105	47 - 150
1,3-Butadiene	0.789	0.744	94	86 - 141
1,3-Dichlorobenzene	0.385	0.304	79	53 - 139
1,4-Dichlorobenzene	0.362	0.336	93	40 - 153
2-Hexanone	0.346	0.224	65	40 - 160
4-Ethyltoluene	0.393	0.460	117	29 - 179
Acrylonitrile	0.340	0.094	28	67 - 165
Allyl chloride	0.370	0.362	98	40 - 160
Benzene	0.408	0.384	94	81 - 117
Benzyl Chloride	0.331	0.253	81	40 - 160
Bromodichloromethane	0.381	0.381	100	66 - 140
Bromoform	0.408	0.320	78	40 - 160
Carbon Tetrachloride	0.396	0.344	87	69 - 125
Chlorobenzene	0.400	0.358	90	76 - 130
Chloroethane	0.385	0.364	95	44 - 179
Chloroform	0.408	0.626	153	40 - 160
Cyclohexane	0.404	0.397	98	65 - 145
Dibromochloromethane	0.381	0.220	58	48 - 172
Dichlorodifluoromethane	0.396	0.383	97	84 - 138
Dichlorotetrafluoroethane	0.381	0.344	90	89 - 139
Ethylbenzene	0.400	0.368	92	77 - 126
Heptane	0.393	0.384	98	56 - 143
Hexachloro-1,3-butadiene	0.400	0.383	96	35 - 154
Methyl Ethyl Ketone	0.370	0.419	113	40 - 160
Methyl Isobutyl Ketone	0.373	0.441	118	40 - 160
Methyl-t-Butyl Ether	0.404	0.409	101	69 - 155
Methylbromide	0.385	0.239	62	60 - 171
Methylchloride	0.396	0.360	91	70 - 151
Methylene chloride	0.392	0.333	85	81 - 126
Styrene	0.370	0.328	89	51 - 150
Tetrachloroethylene	0.400	0.361	90	72 - 130
Tetrahydrofuran	0.354	0.400	113	59 - 159
Toluene	0.408	0.357	88	74 - 127
Trichloroethylene	0.411	0.399	97	74 - 121
Trichloromonofluoromethane (F11)	0.381	0.344	90	75 - 143
Trichlorotrifluoromethane (F113)	0.411	0.375	91	83 - 134
Vinyl Bromide	0.400	0.417	104	70 - 158
Vinylchloride	0.392	0.350	89	86 - 138
c-1,2-Dichloroethylene	0.396	0.368	93	88 - 128
c-1,3-Dichloropropylene	0.396	0.189	48	40 - 160
m/p-Xylenes	0.792	0.772	98	73 - 136
n-Hexane	0.404	0.393	97	81 - 144

9 Fossa Ave - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ppb/V	LFB RESULT ppb/V	LFB RECOVERY %	QC LIMITS %
o-Xylene	0.400	0.398	100	74 - 127
t-1,2--Dichloroethylene	0.404	0.404	100	80 - 150
t-1,3-Dichloropropylene	0.340	0.080	24	59 - 130

Comments:

PU: 24610012

USEPA Region I

Date Shipped: 1/22/2024

Fossa Ave VI Site

CHAIN OF CUSTODY RECORD

Site #: S50187NH

Contact Name: Tara LePage

Contact Phone: 617-617-1000

No: 1-012224-124652-0004

Fossa Ave VI Site

Lab: NERL LSASD

Lab Phone: 617-618-8490

Lab #	Sample #	Location	Canister #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	PID (ppm)
	S50187NH-0014	SG-01	20843	TO-15	Soil Gas	1/17/2024	13:19	1	Summa Canister	0
	S50187NH-0016	SG-02	20859	TO-15	Soil Gas	1/17/2024	13:41	1	Summa Canister	6.08
	S50187NH-0017	SG-102	6462	TO-15	Soil Gas	1/17/2024	13:49	1	Summa Canister	6.08
	S50187NH-0018	SG-03	1589	TO-15	Soil Gas	1/17/2024	14:03	1	Summa Canister	7.4
	S50187NH-0020	P1-SSGD	13499	TO-15	Sub-Slab Soil Vapor	1/18/2024	11:26	1	Summa Canister	.09
	S50187NH-0021	P2-SSG	3092	TO-15	Sub-Slab Soil Vapor	1/18/2024	11:03	1	Summa Canister	.1
	S50187NH-0022	P1-SSG	20843 (3) 20845 (3) 20846 (3) 20847 (3)	TO-15	Sub-Slab Soil Vapor	1/18/2024	11:16	1	Summa Canister	.09
	S50187NH-0031	P3-SSG	4778	TO-15	Sub-Slab Soil Vapor	1/19/2024	13:26	1	Summa Canister	4.26
	S50187NH-0032	P5-SSGD	13500	TO-15	Sub-Slab Soil Vapor	1/19/2024	13:31	1	Summa Canister	4.26
	S50187NH-0033	P4-SSG	20844	TO-15	Sub-Slab Soil Vapor	1/19/2024	13:36	1	Summa Canister	4.76

Special Instructions: Please send sample results to OSC Sherry Banks.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Tara LePage / STAC/Workston</i>	1/22/24 / 1500	<i>Tara LePage (ESAI)</i>	1/22/24 / 1500	

Laboratory Report

February 01, 2024

Abdine Ouedraogo (2-MI)

Sherry Banks (2-CO)

US EPA New England R1

Project Number: 24010013
Project: 9 Fossa Ave - Nashua, NH
Analysis: Air Toxics by GC/MS
EPA Chemist: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-AIRCAN12.

Samples were analyzed by GC/MS using an quadrapole mass spectrometer. Samples were introduced to the GC via an Entech preconcentrator using cryofocusing. Analysis SOP is based on Compendium Method TO-15, update January 1999.

Conversion of ppbv to ug/m3 = $\text{ppbv} \times (\text{mw}/24.45)$ 24.45 is based on T=25c and P = 760 mm Hg

Date Samples Received by the Laboratory: 01/22/2024

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

**DANIEL
BOUDREAU** Digitally signed by
DANIEL BOUDREAU
Date: 2024.02.01
10:15:38 -05'00'

24010013\$AIRT\$

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22693	Lab Sample ID:	AC11140
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.739
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.89	4.4	0.36	
74-87-3	Methylchloride	1.0	2.1	0.15	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.49	
75-01-4	Vinylchloride	ND	ND	0.18	
106-99-0	1,3-Butadiene	0.21	0.47	0.32	
74-83-9	Methylbromide	ND	ND	0.27	
75-00-3	Chloroethane	ND	ND	0.93	
593-60-2	Vinyl Bromide	ND	ND	0.32	
75-69-4	Trichloromonofluoromethane (F11)	0.22	1.2	0.39	
107-13-1	Acrylonitrile	1.9	4.2	0.13	
75-35-4	1,1-Dichloroethylene	ND	ND	0.29	
75-09-2	Methylene chloride	ND	ND	0.25	
107-05-1	Allyl chloride	ND	ND	0.21	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.58	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.29	
75-34-3	1,1-Dichloroethane	ND	ND	0.29	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.26	
78-93-3	Methyl Ethyl Ketone	0.39	1.1	0.20	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.29	
110-54-3	n-Hexane	0.12	0.40	0.26	
67-66-3	Chloroform	0.66	3.2	0.36	
109-99-9	Tetrahydrofuran	ND	ND	0.19	
107-06-2	1,2-Dichloroethane	ND	ND	0.29	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.40	
71-43-2	Benzene	0.41	1.3	0.24	
56-23-5	Carbon Tetrachloride	ND	ND	0.46	
110-82-7	Cyclohexane	ND	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	ND	0.34	
75-27-4	Bromodichloromethane	ND	ND	0.46	
79-01-6	Trichloroethylene	ND	ND	0.40	
142-82-5	Heptane	ND	ND	0.29	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.33	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.28	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.40	
108-88-3	Toluene	0.63	2.4	0.28	
591-78-6	2-Hexanone	ND	ND	0.26	
124-48-1	Dibromochloromethane	ND	ND	0.59	
106-93-4	1,2-Dibromoethane	ND	ND	0.54	
127-18-4	Tetrachloroethylene	ND	ND	0.50	
108-90-7	Chlorobenzene	ND	ND	0.34	
100-41-4	Ethylbenzene	ND	ND	0.32	
1330-20-7	m/p-Xylenes	ND	ND	0.63	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID: 22693
Date of Collection: 1/18/2024
Date of Preparation: 1/25/2024
Date of Analysis: 1/25/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A

Lab Sample ID: AC11140
Matrix: Air
Amount Prepared: 500 mL
Percent Solids: N/A
Extract Dilution: 1.739
pH: N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.76	
100-42-5	Styrene	ND	ND	0.29	
95-47-6	o-Xylene	ND	ND	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.50	
622-96-8	4-Ethyltoluene	ND	ND	0.35	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.36	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.34	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.42	
100-44-7	Benzyl Chloride	ND	ND	0.31	
106-46-7	1,4-Dichlorobenzene	0.085	0.51	0.40	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.41	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.53	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.78	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	105	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	97	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	14898	Lab Sample ID:	AC11141
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.685
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.50	2.5	0.35	
74-87-3	Methylchloride	ND	ND	0.15	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.47	
75-01-4	Vinylchloride	ND	ND	0.18	
106-99-0	1,3-Butadiene	ND	ND	0.31	
74-83-9	Methylbromide	ND	ND	0.27	
75-00-3	Chloroethane	ND	ND	0.90	
593-60-2	Vinyl Bromide	ND	ND	0.31	
75-69-4	Trichloromonofluoromethane (F11)	0.21	1.2	0.38	
107-13-1	Acrylonitrile	ND	ND	0.13	
75-35-4	1,1-Dichloroethylene	ND	ND	0.28	
75-09-2	Methylene chloride	ND	ND	0.24	
107-05-1	Allyl chloride	ND	ND	0.20	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.56	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.28	
75-34-3	1,1-Dichloroethane	ND	ND	0.28	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.25	
78-93-3	Methyl Ethyl Ketone	0.19	0.55	0.19	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.28	
110-54-3	n-Hexane	0.19	0.68	0.25	
67-66-3	Chloroform	0.30	1.5	0.35	
109-99-9	Tetrahydrofuran	ND	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	ND	0.28	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.39	
71-43-2	Benzene	0.22	0.69	0.23	
56-23-5	Carbon Tetrachloride	ND	ND	0.44	
110-82-7	Cyclohexane	ND	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	ND	0.33	
75-27-4	Bromodichloromethane	ND	ND	0.45	
79-01-6	Trichloroethylene	ND	ND	0.39	
142-82-5	Heptane	ND	ND	0.28	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.32	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.27	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.38	
108-88-3	Toluene	0.56	2.1	0.27	
591-78-6	2-Hexanone	ND	ND	0.25	
124-48-1	Dibromochloromethane	ND	ND	0.57	
106-93-4	1,2-Dibromoethane	ND	ND	0.53	
127-18-4	Tetrachloroethylene	ND	ND	0.48	
108-90-7	Chlorobenzene	ND	ND	0.33	
100-41-4	Ethylbenzene	ND	ND	0.31	
1330-20-7	m/p-Xylenes	0.19	0.84	0.61	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	14898	Lab Sample ID:	AC11141
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.685
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.74	
100-42-5	Styrene	ND	ND	0.28	
95-47-6	o-Xylene	ND	ND	0.31	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.49	
622-96-8	4-Ethyltoluene	ND	ND	0.34	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.35	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.33	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.41	
100-44-7	Benzyl Chloride	ND	ND	0.30	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.38	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.40	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.52	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.76	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	103	89 - 130
Bromofluorobenzene (SS3)	102	84 - 111
Toluene,d8 (SS2)	103	89 - 108

Comments: Tentatively Identified nomn-Target Compounds

9 Fossa Ave - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Air
Date of Preparation:	1/24/2024	Amount Prepared:	500 mL
Date of Analysis:	1/24/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.21	
74-87-3	Methylchloride	ND	ND	0.086	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.28	
75-01-4	Vinylchloride	ND	ND	0.11	
106-99-0	1,3-Butadiene	ND	ND	0.18	
74-83-9	Methylbromide	ND	ND	0.16	
75-00-3	Chloroethane	ND	ND	0.53	
593-60-2	Vinyl Bromide	ND	ND	0.18	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	0.23	
107-13-1	Acrylonitrile	ND	ND	0.077	
75-35-4	1,1-Dichloroethylene	ND	ND	0.17	
75-09-2	Methylene chloride	ND	ND	0.14	
107-05-1	Allyl chloride	ND	ND	0.12	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.33	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.17	
75-34-3	1,1-Dichloroethane	ND	ND	0.17	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.15	
78-93-3	Methyl Ethyl Ketone	ND	ND	0.11	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.17	
110-54-3	n-Hexane	ND	ND	0.15	
67-66-3	Chloroform	ND	ND	0.21	
109-99-9	Tetrahydrofuran	ND	ND	0.11	
107-06-2	1,2-Dichloroethane	ND	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.23	
71-43-2	Benzene	ND	ND	0.14	
56-23-5	Carbon Tetrachloride	ND	ND	0.26	
110-82-7	Cyclohexane	ND	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	ND	0.19	
75-27-4	Bromodichloromethane	ND	ND	0.27	
79-01-6	Trichloroethylene	ND	ND	0.23	
142-82-5	Heptane	ND	ND	0.17	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.19	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.16	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.23	
108-88-3	Toluene	ND	ND	0.16	
591-78-6	2-Hexanone	ND	ND	0.15	
124-48-1	Dibromochloromethane	ND	ND	0.34	
106-93-4	1,2-Dibromoethane	ND	ND	0.31	
127-18-4	Tetrachloroethylene	ND	ND	0.29	
108-90-7	Chlorobenzene	ND	ND	0.19	
100-41-4	Ethylbenzene	ND	ND	0.18	
1330-20-7	m/p-Xylenes	ND	ND	0.36	

9 Fossa Ave - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Air
Date of Preparation:	1/24/2024	Amount Prepared:	500 mL
Date of Analysis:	1/24/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.44	
100-42-5	Styrene	ND	ND	0.17	
95-47-6	o-Xylene	ND	ND	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.29	
622-96-8	4-Ethyltoluene	ND	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.24	
100-44-7	Benzyl Chloride	ND	ND	0.18	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.23	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.24	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.31	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.45	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	101	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	95	89 - 108

Comments: Method blank for the LFB and all 100 mL analyses (unused).

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	12568	Lab Sample ID:	AC11142
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.657
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.21	
74-87-3	Methylchloride	ND	ND	0.086	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.28	
75-01-4	Vinylchloride	ND	ND	0.11	
106-99-0	1,3-Butadiene	ND	ND	0.18	
74-83-9	Methylbromide	ND	ND	0.16	
75-00-3	Chloroethane	ND	ND	0.53	
593-60-2	Vinyl Bromide	ND	ND	0.18	
75-69-4	Trichloromonofluoromethane (F11)	0.22	1.3	0.23	
107-13-1	Acrylonitrile	ND	ND	0.077	
75-35-4	1,1-Dichloroethylene	ND	ND	0.17	
75-09-2	Methylene chloride	ND	ND	0.14	
107-05-1	Allyl chloride	ND	ND	0.12	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.33	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.17	
75-34-3	1,1-Dichloroethane	ND	ND	0.17	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.15	
78-93-3	Methyl Ethyl Ketone	0.15	0.44	0.11	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.17	
110-54-3	n-Hexane	1.1	3.9	0.15	
67-66-3	Chloroform	0.37	1.8	0.21	
109-99-9	Tetrahydrofuran	ND	ND	0.11	
107-06-2	1,2-Dichloroethane	ND	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.23	
71-43-2	Benzene	0.52	1.6	0.14	
56-23-5	Carbon Tetrachloride	ND	ND	0.26	
110-82-7	Cyclohexane	0.50	1.7	0.15	
78-87-5	1,2-Dichloropropane	ND	ND	0.19	
75-27-4	Bromodichloromethane	ND	ND	0.27	
79-01-6	Trichloroethylene	ND	ND	0.23	
142-82-5	Heptane	0.25	1.0	0.17	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.19	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.16	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.23	
108-88-3	Toluene	1.6	5.9	0.16	
591-78-6	2-Hexanone	ND	ND	0.15	
124-48-1	Dibromochloromethane	ND	ND	0.34	
106-93-4	1,2-Dibromoethane	ND	ND	0.31	
127-18-4	Tetrachloroethylene	ND	ND	0.29	
108-90-7	Chlorobenzene	ND	ND	0.19	
100-41-4	Ethylbenzene	0.18	0.80	0.18	
1330-20-7	m/p-Xylenes	0.50	2.2	0.36	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID: 12568
Date of Collection: 1/18/2024
Date of Preparation: 1/25/2024
Date of Analysis: 1/25/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A

Lab Sample ID: AC11142
Matrix: Air
Amount Prepared: 500 mL
Percent Solids: N/A
Extract Dilution: 1.657
pH: N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.44	
100-42-5	Styrene	ND	ND	0.17	
95-47-6	o-Xylene	0.17	0.75	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.29	
622-96-8	4-Ethyltoluene	ND	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.24	
100-44-7	Benzyl Chloride	ND	ND	0.18	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.23	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.24	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.31	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.45	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	99	89 - 130
Bromofluorobenzene (SS3)	97	84 - 111
Toluene,d8 (SS2)	100	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13489	Lab Sample ID:	AC11143
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.838
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.93	4.6	0.38	
74-87-3	Methylchloride	0.61	1.3	0.16	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.52	
75-01-4	Vinylchloride	ND	ND	0.19	
106-99-0	1,3-Butadiene	ND	ND	0.34	
74-83-9	Methylbromide	ND	ND	0.29	
75-00-3	Chloroethane	ND	ND	0.98	
593-60-2	Vinyl Bromide	ND	ND	0.33	
75-69-4	Trichloromonofluoromethane (F11)	0.20	1.1	0.41	
107-13-1	Acrylonitrile	ND	ND	0.14	
75-35-4	1,1-Dichloroethylene	ND	ND	0.31	
75-09-2	Methylene chloride	ND	ND	0.26	
107-05-1	Allyl chloride	ND	ND	0.22	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.61	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.31	
75-34-3	1,1-Dichloroethane	ND	ND	0.31	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.28	
78-93-3	Methyl Ethyl Ketone	0.16	0.47	0.21	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.30	
110-54-3	n-Hexane	0.44	1.5	0.27	
67-66-3	Chloroform	0.78	3.8	0.38	
109-99-9	Tetrahydrofuran	ND	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.42	
71-43-2	Benzene	0.32	1.0	0.25	
56-23-5	Carbon Tetrachloride	ND	ND	0.48	
110-82-7	Cyclohexane	0.20	0.69	0.27	
78-87-5	1,2-Dichloropropane	ND	ND	0.36	
75-27-4	Bromodichloromethane	ND	ND	0.49	
79-01-6	Trichloroethylene	ND	ND	0.43	
142-82-5	Heptane	0.12	0.48	0.31	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.35	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.29	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.30	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.42	
108-88-3	Toluene	0.84	3.2	0.30	
591-78-6	2-Hexanone	ND	ND	0.27	
124-48-1	Dibromochloromethane	ND	ND	0.62	
106-93-4	1,2-Dibromoethane	ND	ND	0.58	
127-18-4	Tetrachloroethylene	ND	ND	0.52	
108-90-7	Chlorobenzene	ND	ND	0.36	
100-41-4	Ethylbenzene	0.11	0.49	0.34	
1330-20-7	m/p-Xylenes	0.29	1.2	0.66	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13489	Lab Sample ID:	AC11143
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.838
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.81	
100-42-5	Styrene	0.074	0.32	0.30	
95-47-6	o-Xylene	0.12	0.51	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.53	
622-96-8	4-Ethyltoluene	ND	ND	0.37	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.38	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.36	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.45	
100-44-7	Benzyl Chloride	ND	ND	0.33	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.42	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.44	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.56	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.82	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	98	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	97	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.21	
74-87-3	Methylchloride	ND	ND	0.086	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.28	
75-01-4	Vinylchloride	ND	ND	0.11	
106-99-0	1,3-Butadiene	ND	ND	0.18	
74-83-9	Methylbromide	ND	ND	0.16	
75-00-3	Chloroethane	ND	ND	0.53	
593-60-2	Vinyl Bromide	ND	ND	0.18	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	0.23	
107-13-1	Acrylonitrile	ND	ND	0.077	
75-35-4	1,1-Dichloroethylene	ND	ND	0.17	
75-09-2	Methylene chloride	ND	ND	0.14	
107-05-1	Allyl chloride	ND	ND	0.12	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.33	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.17	
75-34-3	1,1-Dichloroethane	ND	ND	0.17	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.15	
78-93-3	Methyl Ethyl Ketone	ND	ND	0.11	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.17	
110-54-3	n-Hexane	ND	ND	0.15	
67-66-3	Chloroform	ND	ND	0.21	
109-99-9	Tetrahydrofuran	ND	ND	0.11	
107-06-2	1,2-Dichloroethane	ND	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.23	
71-43-2	Benzene	ND	ND	0.14	
56-23-5	Carbon Tetrachloride	ND	ND	0.26	
110-82-7	Cyclohexane	ND	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	ND	0.19	
75-27-4	Bromodichloromethane	ND	ND	0.27	
79-01-6	Trichloroethylene	ND	ND	0.23	
142-82-5	Heptane	ND	ND	0.17	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.19	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.16	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.23	
108-88-3	Toluene	ND	ND	0.16	
591-78-6	2-Hexanone	ND	ND	0.15	
124-48-1	Dibromochloromethane	ND	ND	0.34	
106-93-4	1,2-Dibromoethane	ND	ND	0.31	
127-18-4	Tetrachloroethylene	ND	ND	0.29	
108-90-7	Chlorobenzene	ND	ND	0.19	
100-41-4	Ethylbenzene	ND	ND	0.18	
1330-20-7	m/p-Xylenes	ND	ND	0.36	

9 Fossa Ave - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.44	
100-42-5	Styrene	ND	ND	0.17	
95-47-6	o-Xylene	ND	ND	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.29	
622-96-8	4-Ethyltoluene	ND	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.24	
100-44-7	Benzyl Chloride	ND	ND	0.18	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.23	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.24	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.31	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.45	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	100	84 - 111
Toluene,d8 (SS2)	98	89 - 108

Comments: Method blank for all 500 mL analyses

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	5810	Lab Sample ID:	AC11144
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.642
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.34	
74-87-3	Methylchloride	0.69	1.4	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.46	
75-01-4	Vinylchloride	ND	ND	0.17	
106-99-0	1,3-Butadiene	ND	ND	0.30	
74-83-9	Methylbromide	ND	ND	0.26	
75-00-3	Chloroethane	ND	ND	0.88	
593-60-2	Vinyl Bromide	ND	ND	0.30	
75-69-4	Trichloromonofluoromethane (F11)	0.22	1.2	0.37	
107-13-1	Acrylonitrile	ND	ND	0.13	
75-35-4	1,1-Dichloroethylene	ND	ND	0.28	
75-09-2	Methylene chloride	ND	ND	0.23	
107-05-1	Allyl chloride	ND	ND	0.20	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.54	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.27	
75-34-3	1,1-Dichloroethane	ND	ND	0.27	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.25	
78-93-3	Methyl Ethyl Ketone	0.085	0.25	0.19	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.27	
110-54-3	n-Hexane	0.21	0.75	0.24	
67-66-3	Chloroform	0.22	1.1	0.34	
109-99-9	Tetrahydrofuran	ND	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	ND	0.27	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.38	
71-43-2	Benzene	0.28	0.91	0.22	
56-23-5	Carbon Tetrachloride	ND	ND	0.43	
110-82-7	Cyclohexane	ND	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	ND	0.32	
75-27-4	Bromodichloromethane	ND	ND	0.44	
79-01-6	Trichloroethylene	ND	ND	0.38	
142-82-5	Heptane	ND	ND	0.27	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.31	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.26	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.37	
108-88-3	Toluene	0.87	3.3	0.26	
591-78-6	2-Hexanone	ND	ND	0.24	
124-48-1	Dibromochloromethane	ND	ND	0.56	
106-93-4	1,2-Dibromoethane	ND	ND	0.51	
127-18-4	Tetrachloroethylene	ND	ND	0.47	
108-90-7	Chlorobenzene	ND	ND	0.32	
100-41-4	Ethylbenzene	0.07	0.30	0.30	
1330-20-7	m/p-Xylenes	0.20	0.88	0.59	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID: 5810
Date of Collection: 1/18/2024
Date of Preparation: 1/25/2024
Date of Analysis: 1/25/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A

Lab Sample ID: AC11144
Matrix: Air
Amount Prepared: 500 mL
Percent Solids: N/A
Extract Dilution: 1.642
pH: N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.72	
100-42-5	Styrene	0.069	0.29	0.27	
95-47-6	o-Xylene	0.072	0.31	0.30	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.47	
622-96-8	4-Ethyltoluene	ND	ND	0.33	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.34	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.33	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.40	
100-44-7	Benzyl Chloride	ND	ND	0.29	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.39	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.50	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.74	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	99	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	12565	Lab Sample ID:	AC11145
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.639
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	1.5	7.3	0.34	
74-87-3	Methylchloride	0.92	1.9	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.46	
75-01-4	Vinylchloride	ND	ND	0.17	
106-99-0	1,3-Butadiene	ND	ND	0.30	
74-83-9	Methylbromide	ND	ND	0.26	
75-00-3	Chloroethane	ND	ND	0.87	
593-60-2	Vinyl Bromide	ND	ND	0.30	
75-69-4	Trichloromonofluoromethane (F11)	0.20	1.1	0.37	
107-13-1	Acrylonitrile	ND	ND	0.13	
75-35-4	1,1-Dichloroethylene	ND	ND	0.28	
75-09-2	Methylene chloride	ND	ND	0.23	
107-05-1	Allyl chloride	ND	ND	0.20	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.54	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.27	
75-34-3	1,1-Dichloroethane	ND	ND	0.27	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.25	
78-93-3	Methyl Ethyl Ketone	0.57	1.7	0.19	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.27	
110-54-3	n-Hexane	0.20	0.69	0.24	
67-66-3	Chloroform	3.3	16	0.34	
109-99-9	Tetrahydrofuran	0.28	0.83	0.18	
107-06-2	1,2-Dichloroethane	ND	ND	0.27	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.38	
71-43-2	Benzene	0.22	0.69	0.22	
56-23-5	Carbon Tetrachloride	ND	ND	0.43	
110-82-7	Cyclohexane	ND	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	ND	0.32	
75-27-4	Bromodichloromethane	ND	ND	0.44	
79-01-6	Trichloroethylene	ND	ND	0.38	
142-82-5	Heptane	ND	ND	0.27	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.31	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.26	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.37	
108-88-3	Toluene	0.67	2.5	0.26	
591-78-6	2-Hexanone	ND	ND	0.24	
124-48-1	Dibromochloromethane	ND	ND	0.55	
106-93-4	1,2-Dibromoethane	ND	ND	0.51	
127-18-4	Tetrachloroethylene	ND	ND	0.47	
108-90-7	Chlorobenzene	ND	ND	0.32	
100-41-4	Ethylbenzene	ND	ND	0.30	
1330-20-7	m/p-Xylenes	0.14	0.59	0.59	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	12565	Lab Sample ID:	AC11145
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.639
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.72	
100-42-5	Styrene	0.34	1.4	0.27	
95-47-6	o-Xylene	ND	ND	0.30	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.47	
622-96-8	4-Ethyltoluene	ND	ND	0.33	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.34	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.33	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.40	
100-44-7	Benzyl Chloride	ND	ND	0.29	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.39	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.50	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.73	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	98	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	97	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22105	Lab Sample ID:	AC11146
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.466
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.42	2.1	0.30	
74-87-3	Methylchloride	0.50	1.0	0.13	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.41	
75-01-4	Vinylchloride	ND	ND	0.15	
106-99-0	1,3-Butadiene	ND	ND	0.27	
74-83-9	Methylbromide	ND	ND	0.23	
75-00-3	Chloroethane	ND	ND	0.78	
593-60-2	Vinyl Bromide	ND	ND	0.27	
75-69-4	Trichloromonofluoromethane (F11)	0.21	1.2	0.33	
107-13-1	Acrylonitrile	ND	ND	0.11	
75-35-4	1,1-Dichloroethylene	ND	ND	0.25	
75-09-2	Methylene chloride	ND	ND	0.21	
107-05-1	Allyl chloride	ND	ND	0.18	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.49	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	ND	0.25	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.22	
78-93-3	Methyl Ethyl Ketone	0.084	0.25	0.17	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.24	
110-54-3	n-Hexane	0.073	0.26	0.22	
67-66-3	Chloroform	ND	ND	0.31	
109-99-9	Tetrahydrofuran	ND	ND	0.16	
107-06-2	1,2-Dichloroethane	ND	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.34	
71-43-2	Benzene	0.17	0.55	0.20	
56-23-5	Carbon Tetrachloride	ND	ND	0.38	
110-82-7	Cyclohexane	ND	ND	0.21	
78-87-5	1,2-Dichloropropane	ND	ND	0.28	
75-27-4	Bromodichloromethane	ND	ND	0.39	
79-01-6	Trichloroethylene	ND	ND	0.34	
142-82-5	Heptane	ND	ND	0.25	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.28	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.23	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.33	
108-88-3	Toluene	0.15	0.55	0.24	
591-78-6	2-Hexanone	ND	ND	0.22	
124-48-1	Dibromochloromethane	ND	ND	0.50	
106-93-4	1,2-Dibromoethane	ND	ND	0.46	
127-18-4	Tetrachloroethylene	ND	ND	0.42	
108-90-7	Chlorobenzene	ND	ND	0.28	
100-41-4	Ethylbenzene	ND	ND	0.27	
1330-20-7	m/p-Xylenes	ND	ND	0.53	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID: 22105
Date of Collection: 1/18/2024
Date of Preparation: 1/25/2024
Date of Analysis: 1/25/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A

Lab Sample ID: AC11146
Matrix: Air
Amount Prepared: 500 mL
Percent Solids: N/A
Extract Dilution: 1.466
pH: N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.64	
100-42-5	Styrene	ND	ND	0.24	
95-47-6	o-Xylene	ND	ND	0.27	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.42	
622-96-8	4-Ethyltoluene	ND	ND	0.30	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.30	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.29	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.36	
100-44-7	Benzyl Chloride	ND	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.33	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.35	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.45	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.66	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	98	84 - 111
Toluene,d8 (SS2)	102	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	12571	Lab Sample ID:	AC11147
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.778
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.49	2.4	0.37	
74-87-3	Methylchloride	0.59	1.2	0.15	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.50	
75-01-4	Vinylchloride	ND	ND	0.19	
106-99-0	1,3-Butadiene	ND	ND	0.32	
74-83-9	Methylbromide	ND	ND	0.28	
75-00-3	Chloroethane	ND	ND	0.95	
593-60-2	Vinyl Bromide	ND	ND	0.32	
75-69-4	Trichloromonofluoromethane (F11)	0.23	1.3	0.40	
107-13-1	Acrylonitrile	ND	ND	0.14	
75-35-4	1,1-Dichloroethylene	ND	ND	0.30	
75-09-2	Methylene chloride	ND	ND	0.25	
107-05-1	Allyl chloride	ND	ND	0.21	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.59	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.30	
75-34-3	1,1-Dichloroethane	ND	ND	0.30	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.27	
78-93-3	Methyl Ethyl Ketone	0.22	0.65	0.20	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.29	
110-54-3	n-Hexane	0.14	0.50	0.26	
67-66-3	Chloroform	0.11	0.53	0.37	
109-99-9	Tetrahydrofuran	ND	ND	0.19	
107-06-2	1,2-Dichloroethane	ND	ND	0.30	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.41	
71-43-2	Benzene	0.20	0.63	0.24	
56-23-5	Carbon Tetrachloride	ND	ND	0.47	
110-82-7	Cyclohexane	0.084	0.29	0.26	
78-87-5	1,2-Dichloropropane	ND	ND	0.35	
75-27-4	Bromodichloromethane	ND	ND	0.47	
79-01-6	Trichloroethylene	ND	ND	0.41	
142-82-5	Heptane	ND	ND	0.30	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.34	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.28	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.29	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.40	
108-88-3	Toluene	0.36	1.3	0.29	
591-78-6	2-Hexanone	ND	ND	0.26	
124-48-1	Dibromochloromethane	ND	ND	0.60	
106-93-4	1,2-Dibromoethane	ND	ND	0.56	
127-18-4	Tetrachloroethylene	ND	ND	0.51	
108-90-7	Chlorobenzene	ND	ND	0.34	
100-41-4	Ethylbenzene	ND	ND	0.32	
1330-20-7	m/p-Xylenes	0.17	0.75	0.64	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	12571	Lab Sample ID:	AC11147
Date of Collection:	1/18/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.778
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.78	
100-42-5	Styrene	ND	ND	0.29	
95-47-6	o-Xylene	ND	ND	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.51	
622-96-8	4-Ethyltoluene	ND	ND	0.36	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.37	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.35	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.43	
100-44-7	Benzyl Chloride	ND	ND	0.32	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.41	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.42	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.54	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.80	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	100	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20855	Lab Sample ID:	AC11148
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.669
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.34	
74-87-3	Methylchloride	0.61	1.3	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.47	
75-01-4	Vinylchloride	ND	ND	0.18	
106-99-0	1,3-Butadiene	ND	ND	0.30	
74-83-9	Methylbromide	ND	ND	0.26	
75-00-3	Chloroethane	ND	ND	0.89	
593-60-2	Vinyl Bromide	ND	ND	0.30	
75-69-4	Trichloromonofluoromethane (F11)	0.20	1.1	0.38	
107-13-1	Acrylonitrile	ND	ND	0.13	
75-35-4	1,1-Dichloroethylene	ND	ND	0.28	
75-09-2	Methylene chloride	ND	ND	0.24	
107-05-1	Allyl chloride	ND	ND	0.20	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.55	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.28	
75-34-3	1,1-Dichloroethane	ND	ND	0.28	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.25	
78-93-3	Methyl Ethyl Ketone	0.26	0.78	0.19	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.28	
110-54-3	n-Hexane	0.25	0.89	0.25	
67-66-3	Chloroform	0.64	3.1	0.35	
109-99-9	Tetrahydrofuran	ND	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	ND	0.28	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.38	
71-43-2	Benzene	0.44	1.4	0.23	
56-23-5	Carbon Tetrachloride	ND	ND	0.44	
110-82-7	Cyclohexane	0.093	0.32	0.24	
78-87-5	1,2-Dichloropropane	ND	ND	0.32	
75-27-4	Bromodichloromethane	ND	ND	0.44	
79-01-6	Trichloroethylene	ND	ND	0.39	
142-82-5	Heptane	0.14	0.56	0.28	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.32	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.27	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.38	
108-88-3	Toluene	0.68	2.6	0.27	
591-78-6	2-Hexanone	ND	ND	0.25	
124-48-1	Dibromochloromethane	ND	ND	0.56	
106-93-4	1,2-Dibromoethane	ND	ND	0.52	
127-18-4	Tetrachloroethylene	ND	ND	0.48	
108-90-7	Chlorobenzene	ND	ND	0.32	
100-41-4	Ethylbenzene	0.095	0.41	0.30	
1330-20-7	m/p-Xylenes	0.23	0.98	0.60	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	20855	Lab Sample ID:	AC11148
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.669
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.73	
100-42-5	Styrene	ND	ND	0.28	
95-47-6	o-Xylene	0.099	0.43	0.30	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.48	
622-96-8	4-Ethyltoluene	ND	ND	0.34	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.34	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.33	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.41	
100-44-7	Benzyl Chloride	ND	ND	0.30	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.38	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.40	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.51	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.75	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	101	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	106	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1114	Lab Sample ID:	AC11149
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.683
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.47	2.3	0.35	
74-87-3	Methylchloride	0.70	1.5	0.15	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.47	
75-01-4	Vinylchloride	ND	ND	0.18	
106-99-0	1,3-Butadiene	0.26	0.58	0.31	
74-83-9	Methylbromide	ND	ND	0.26	
75-00-3	Chloroethane	ND	ND	0.90	
593-60-2	Vinyl Bromide	ND	ND	0.31	
75-69-4	Trichloromonofluoromethane (F11)	0.24	1.4	0.38	
107-13-1	Acrylonitrile	ND	ND	0.13	
75-35-4	1,1-Dichloroethylene	ND	ND	0.28	
75-09-2	Methylene chloride	0.93	3.2	0.24	
107-05-1	Allyl chloride	ND	ND	0.20	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.56	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.28	
75-34-3	1,1-Dichloroethane	ND	ND	0.28	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.25	
78-93-3	Methyl Ethyl Ketone	0.47	1.4	0.19	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.28	
110-54-3	n-Hexane	0.46	1.6	0.25	
67-66-3	Chloroform	0.11	0.55	0.35	
109-99-9	Tetrahydrofuran	0.17	0.50	0.18	
107-06-2	1,2-Dichloroethane	ND	ND	0.28	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.39	
71-43-2	Benzene	0.69	2.2	0.23	
56-23-5	Carbon Tetrachloride	ND	ND	0.44	
110-82-7	Cyclohexane	0.24	0.83	0.24	
78-87-5	1,2-Dichloropropane	ND	ND	0.33	
75-27-4	Bromodichloromethane	ND	ND	0.45	
79-01-6	Trichloroethylene	ND	ND	0.39	
142-82-5	Heptane	ND	ND	0.28	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.32	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.27	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.38	
108-88-3	Toluene	1.5	5.8	0.27	
591-78-6	2-Hexanone	ND	ND	0.25	
124-48-1	Dibromochloromethane	ND	ND	0.57	
106-93-4	1,2-Dibromoethane	ND	ND	0.53	
127-18-4	Tetrachloroethylene	ND	ND	0.48	
108-90-7	Chlorobenzene	ND	ND	0.33	
100-41-4	Ethylbenzene	0.31	1.3	0.31	
1330-20-7	m/p-Xylenes	1.0	4.5	0.61	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1114	Lab Sample ID:	AC11149
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.683
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.74	
100-42-5	Styrene	0.17	0.74	0.28	
95-47-6	o-Xylene	0.39	1.7	0.31	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.49	
622-96-8	4-Ethyltoluene	0.13	0.64	0.34	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.35	
95-63-6	1,2,4-Trimethylbenzene	0.15	0.76	0.33	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.41	
100-44-7	Benzyl Chloride	ND	ND	0.30	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.38	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.40	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.52	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.75	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	99	89 - 130
Bromofluorobenzene (SS3)	98	84 - 111
Toluene,d8 (SS2)	102	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1577	Lab Sample ID:	AC11150
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.603
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.47	2.3	0.33	
74-87-3	Methylchloride	0.65	1.3	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.45	
75-01-4	Vinylchloride	ND	ND	0.17	
106-99-0	1,3-Butadiene	ND	ND	0.29	
74-83-9	Methylbromide	ND	ND	0.25	
75-00-3	Chloroethane	ND	ND	0.85	
593-60-2	Vinyl Bromide	ND	ND	0.29	
75-69-4	Trichloromonofluoromethane (F11)	0.23	1.3	0.36	
107-13-1	Acrylonitrile	ND	ND	0.12	
75-35-4	1,1-Dichloroethylene	ND	ND	0.27	
75-09-2	Methylene chloride	ND	ND	0.23	
107-05-1	Allyl chloride	ND	ND	0.19	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.53	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.27	
75-34-3	1,1-Dichloroethane	ND	ND	0.27	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.24	
78-93-3	Methyl Ethyl Ketone	0.15	0.45	0.18	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.26	
110-54-3	n-Hexane	0.25	0.89	0.24	
67-66-3	Chloroform	0.07	0.34	0.34	
109-99-9	Tetrahydrofuran	ND	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	ND	0.27	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.37	
71-43-2	Benzene	0.28	0.88	0.22	
56-23-5	Carbon Tetrachloride	ND	ND	0.42	
110-82-7	Cyclohexane	0.12	0.40	0.23	
78-87-5	1,2-Dichloropropane	ND	ND	0.31	
75-27-4	Bromodichloromethane	ND	ND	0.43	
79-01-6	Trichloroethylene	ND	ND	0.37	
142-82-5	Heptane	0.12	0.51	0.27	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.30	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.26	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.26	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.36	
108-88-3	Toluene	0.49	1.8	0.26	
591-78-6	2-Hexanone	ND	ND	0.24	
124-48-1	Dibromochloromethane	ND	ND	0.54	
106-93-4	1,2-Dibromoethane	ND	ND	0.50	
127-18-4	Tetrachloroethylene	ND	ND	0.46	
108-90-7	Chlorobenzene	ND	ND	0.31	
100-41-4	Ethylbenzene	0.072	0.31	0.29	
1330-20-7	m/p-Xylenes	0.22	0.97	0.58	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1577	Lab Sample ID:	AC11150
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.603
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.70	
100-42-5	Styrene	ND	ND	0.26	
95-47-6	o-Xylene	0.088	0.38	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.46	
622-96-8	4-Ethyltoluene	ND	ND	0.32	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.33	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.32	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.39	
100-44-7	Benzyl Chloride	ND	ND	0.29	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.38	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.49	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.72	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	103	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	98	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22682	Lab Sample ID:	AC11151
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.774
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.37	
74-87-3	Methylchloride	0.74	1.5	0.15	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.50	
75-01-4	Vinylchloride	ND	ND	0.19	
106-99-0	1,3-Butadiene	ND	ND	0.32	
74-83-9	Methylbromide	ND	ND	0.28	
75-00-3	Chloroethane	ND	ND	0.95	
593-60-2	Vinyl Bromide	ND	ND	0.32	
75-69-4	Trichloromonofluoromethane (F11)	0.21	1.2	0.40	
107-13-1	Acrylonitrile	ND	ND	0.14	
75-35-4	1,1-Dichloroethylene	ND	ND	0.30	
75-09-2	Methylene chloride	ND	ND	0.25	
107-05-1	Allyl chloride	ND	ND	0.21	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.59	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.30	
75-34-3	1,1-Dichloroethane	ND	ND	0.30	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.27	
78-93-3	Methyl Ethyl Ketone	0.18	0.54	0.20	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.29	
110-54-3	n-Hexane	0.26	0.90	0.26	
67-66-3	Chloroform	ND	ND	0.37	
109-99-9	Tetrahydrofuran	0.16	0.46	0.19	
107-06-2	1,2-Dichloroethane	ND	ND	0.30	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.41	
71-43-2	Benzene	0.35	1.1	0.24	
56-23-5	Carbon Tetrachloride	ND	ND	0.47	
110-82-7	Cyclohexane	0.12	0.40	0.26	
78-87-5	1,2-Dichloropropane	ND	ND	0.34	
75-27-4	Bromodichloromethane	ND	ND	0.47	
79-01-6	Trichloroethylene	ND	ND	0.41	
142-82-5	Heptane	0.21	0.84	0.30	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.34	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.28	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.29	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.40	
108-88-3	Toluene	0.57	2.2	0.29	
591-78-6	2-Hexanone	ND	ND	0.26	
124-48-1	Dibromochloromethane	ND	ND	0.60	
106-93-4	1,2-Dibromoethane	ND	ND	0.56	
127-18-4	Tetrachloroethylene	0.13	0.86	0.51	
108-90-7	Chlorobenzene	ND	ND	0.34	
100-41-4	Ethylbenzene	0.083	0.36	0.32	
1330-20-7	m/p-Xylenes	0.25	1.1	0.64	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22682	Lab Sample ID:	AC11151
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.774
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.78	
100-42-5	Styrene	ND	ND	0.29	
95-47-6	o-Xylene	0.082	0.36	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.51	
622-96-8	4-Ethyltoluene	ND	ND	0.36	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.37	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.35	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.43	
100-44-7	Benzyl Chloride	ND	ND	0.32	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.40	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.42	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.54	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.80	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	98	84 - 111
Toluene,d8 (SS2)	99	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	5792	Lab Sample ID:	AC11152
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.54
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.51	2.5	0.32	
74-87-3	Methylchloride	0.58	1.2	0.13	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.43	
75-01-4	Vinylchloride	ND	ND	0.16	
106-99-0	1,3-Butadiene	ND	ND	0.28	
74-83-9	Methylbromide	ND	ND	0.24	
75-00-3	Chloroethane	ND	ND	0.82	
593-60-2	Vinyl Bromide	ND	ND	0.28	
75-69-4	Trichloromonofluoromethane (F11)	0.23	1.3	0.35	
107-13-1	Acrylonitrile	ND	ND	0.12	
75-35-4	1,1-Dichloroethylene	ND	ND	0.26	
75-09-2	Methylene chloride	0.11	0.39	0.22	
107-05-1	Allyl chloride	ND	ND	0.19	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.51	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.26	
75-34-3	1,1-Dichloroethane	ND	ND	0.26	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.23	
78-93-3	Methyl Ethyl Ketone	0.099	0.29	0.17	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.25	
110-54-3	n-Hexane	0.65	2.3	0.23	
67-66-3	Chloroform	ND	ND	0.32	
109-99-9	Tetrahydrofuran	0.30	0.88	0.17	
107-06-2	1,2-Dichloroethane	ND	ND	0.26	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.35	
71-43-2	Benzene	0.29	0.93	0.21	
56-23-5	Carbon Tetrachloride	ND	ND	0.40	
110-82-7	Cyclohexane	0.22	0.77	0.22	
78-87-5	1,2-Dichloropropane	ND	ND	0.30	
75-27-4	Bromodichloromethane	ND	ND	0.41	
79-01-6	Trichloroethylene	ND	ND	0.36	
142-82-5	Heptane	0.42	1.7	0.26	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.29	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.25	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.25	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.35	
108-88-3	Toluene	0.71	2.7	0.25	
591-78-6	2-Hexanone	ND	ND	0.23	
124-48-1	Dibromochloromethane	ND	ND	0.52	
106-93-4	1,2-Dibromoethane	ND	ND	0.48	
127-18-4	Tetrachloroethylene	0.18	1.2	0.44	
108-90-7	Chlorobenzene	ND	ND	0.30	
100-41-4	Ethylbenzene	0.098	0.43	0.28	
1330-20-7	m/p-Xylenes	0.30	1.3	0.56	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID: 5792
Date of Collection: 1/19/2024
Date of Preparation: 1/25/2024
Date of Analysis: 1/25/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A

Lab Sample ID: AC11152
Matrix: Air
Amount Prepared: 500 mL
Percent Solids: N/A
Extract Dilution: 1.54
pH: N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.68	
100-42-5	Styrene	ND	ND	0.25	
95-47-6	o-Xylene	0.11	0.46	0.28	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.44	
622-96-8	4-Ethyltoluene	ND	ND	0.31	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.32	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.31	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.37	
100-44-7	Benzyl Chloride	ND	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.35	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.37	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.47	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.69	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	103	89 - 130
Bromofluorobenzene (SS3)	97	84 - 111
Toluene,d8 (SS2)	100	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1587	Lab Sample ID:	AC11153
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.568
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.32	
74-87-3	Methylchloride	1.0	2.1	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.44	
75-01-4	Vinylchloride	ND	ND	0.17	
106-99-0	1,3-Butadiene	ND	ND	0.29	
74-83-9	Methylbromide	ND	ND	0.25	
75-00-3	Chloroethane	ND	ND	0.84	
593-60-2	Vinyl Bromide	ND	ND	0.28	
75-69-4	Trichloromonofluoromethane (F11)	0.22	1.2	0.35	
107-13-1	Acrylonitrile	ND	ND	0.12	
75-35-4	1,1-Dichloroethylene	ND	ND	0.26	
75-09-2	Methylene chloride	0.12	0.41	0.22	
107-05-1	Allyl chloride	ND	ND	0.19	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.52	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.26	
75-34-3	1,1-Dichloroethane	ND	ND	0.26	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.24	
78-93-3	Methyl Ethyl Ketone	0.17	0.49	0.18	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.26	
110-54-3	n-Hexane	0.24	0.84	0.23	
67-66-3	Chloroform	0.39	1.9	0.33	
109-99-9	Tetrahydrofuran	0.20	0.59	0.17	
107-06-2	1,2-Dichloroethane	ND	ND	0.26	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.36	
71-43-2	Benzene	0.26	0.82	0.21	
56-23-5	Carbon Tetrachloride	ND	ND	0.41	
110-82-7	Cyclohexane	0.10	0.35	0.23	
78-87-5	1,2-Dichloropropane	ND	ND	0.30	
75-27-4	Bromodichloromethane	ND	ND	0.42	
79-01-6	Trichloroethylene	ND	ND	0.36	
142-82-5	Heptane	0.19	0.76	0.26	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.30	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.25	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.25	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.36	
108-88-3	Toluene	0.44	1.6	0.25	
591-78-6	2-Hexanone	ND	ND	0.23	
124-48-1	Dibromochloromethane	ND	ND	0.53	
106-93-4	1,2-Dibromoethane	ND	ND	0.49	
127-18-4	Tetrachloroethylene	0.10	0.71	0.45	
108-90-7	Chlorobenzene	ND	ND	0.30	
100-41-4	Ethylbenzene	0.07	0.30	0.29	
1330-20-7	m/p-Xylenes	0.19	0.81	0.57	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1587	Lab Sample ID:	AC11153
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.568
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.69	
100-42-5	Styrene	ND	ND	0.26	
95-47-6	o-Xylene	0.078	0.34	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.45	
622-96-8	4-Ethyltoluene	ND	ND	0.32	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.32	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.31	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.38	
100-44-7	Benzyl Chloride	ND	ND	0.28	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.36	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.37	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.48	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.70	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	98	84 - 111
Toluene,d8 (SS2)	99	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22694	Lab Sample ID:	AC11154
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.486
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.51	2.5	0.31	
74-87-3	Methylchloride	0.60	1.2	0.13	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.42	
75-01-4	Vinylchloride	ND	ND	0.16	
106-99-0	1,3-Butadiene	ND	ND	0.27	
74-83-9	Methylbromide	ND	ND	0.23	
75-00-3	Chloroethane	ND	ND	0.79	
593-60-2	Vinyl Bromide	ND	ND	0.27	
75-69-4	Trichloromonofluoromethane (F11)	0.22	1.2	0.33	
107-13-1	Acrylonitrile	ND	ND	0.11	
75-35-4	1,1-Dichloroethylene	ND	ND	0.25	
75-09-2	Methylene chloride	0.11	0.37	0.21	
107-05-1	Allyl chloride	ND	ND	0.18	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.49	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	ND	0.25	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.22	
78-93-3	Methyl Ethyl Ketone	0.23	0.67	0.17	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.25	
110-54-3	n-Hexane	0.26	0.92	0.22	
67-66-3	Chloroform	ND	ND	0.31	
109-99-9	Tetrahydrofuran	0.99	2.9	0.16	
107-06-2	1,2-Dichloroethane	ND	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.34	
71-43-2	Benzene	0.19	0.62	0.20	
56-23-5	Carbon Tetrachloride	ND	ND	0.39	
110-82-7	Cyclohexane	0.099	0.34	0.22	
78-87-5	1,2-Dichloropropane	ND	ND	0.29	
75-27-4	Bromodichloromethane	ND	ND	0.40	
79-01-6	Trichloroethylene	ND	ND	0.35	
142-82-5	Heptane	0.20	0.83	0.25	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.28	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.24	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.34	
108-88-3	Toluene	0.44	1.6	0.24	
591-78-6	2-Hexanone	ND	ND	0.22	
124-48-1	Dibromochloromethane	ND	ND	0.50	
106-93-4	1,2-Dibromoethane	ND	ND	0.47	
127-18-4	Tetrachloroethylene	0.082	0.56	0.42	
108-90-7	Chlorobenzene	ND	ND	0.29	
100-41-4	Ethylbenzene	0.066	0.29	0.27	
1330-20-7	m/p-Xylenes	0.22	0.94	0.54	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22694	Lab Sample ID:	AC11154
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.486
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.65	
100-42-5	Styrene	ND	ND	0.25	
95-47-6	o-Xylene	0.073	0.32	0.27	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.43	
622-96-8	4-Ethyltoluene	ND	ND	0.30	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.31	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.29	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.36	
100-44-7	Benzyl Chloride	ND	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.34	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.35	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.46	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.67	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	102	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	95	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	6553	Lab Sample ID:	AC11155
Date of Collection:	1/19/2024	Matrix:	Air
Date of Preparation:	1/25/2024	Amount Prepared:	500 mL
Date of Analysis:	1/25/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.572
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.45	2.2	0.32	
74-87-3	Methylchloride	0.55	1.1	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.44	
75-01-4	Vinylchloride	ND	ND	0.17	
106-99-0	1,3-Butadiene	ND	ND	0.29	
74-83-9	Methylbromide	ND	ND	0.25	
75-00-3	Chloroethane	ND	ND	0.84	
593-60-2	Vinyl Bromide	ND	ND	0.29	
75-69-4	Trichloromonofluoromethane (F11)	0.21	1.2	0.35	
107-13-1	Acrylonitrile	ND	ND	0.12	
75-35-4	1,1-Dichloroethylene	ND	ND	0.26	
75-09-2	Methylene chloride	0.12	0.40	0.22	
107-05-1	Allyl chloride	ND	ND	0.19	
76-13-1	Trichlorotrifluoromethane (F113)	ND	ND	0.52	
156-60-5	t-1,2--Dichloroethylene	ND	ND	0.26	
75-34-3	1,1-Dichloroethane	ND	ND	0.26	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.24	
78-93-3	Methyl Ethyl Ketone	0.13	0.39	0.18	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.26	
110-54-3	n-Hexane	0.23	0.81	0.23	
67-66-3	Chloroform	ND	ND	0.33	
109-99-9	Tetrahydrofuran	ND	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	ND	0.26	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.36	
71-43-2	Benzene	0.35	1.1	0.21	
56-23-5	Carbon Tetrachloride	ND	ND	0.41	
110-82-7	Cyclohexane	0.084	0.29	0.23	
78-87-5	1,2-Dichloropropane	ND	ND	0.31	
75-27-4	Bromodichloromethane	ND	ND	0.42	
79-01-6	Trichloroethylene	ND	ND	0.37	
142-82-5	Heptane	0.10	0.41	0.26	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.30	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.25	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.26	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.36	
108-88-3	Toluene	0.45	1.7	0.25	
591-78-6	2-Hexanone	ND	ND	0.23	
124-48-1	Dibromochloromethane	ND	ND	0.53	
106-93-4	1,2-Dibromoethane	ND	ND	0.49	
127-18-4	Tetrachloroethylene	ND	ND	0.45	
108-90-7	Chlorobenzene	ND	ND	0.30	
100-41-4	Ethylbenzene	ND	ND	0.29	
1330-20-7	m/p-Xylenes	0.11	0.48	0.57	

9 Fossa Ave - Nashua, NH

Air Toxics by GC/MS

Client Sample ID: 6553
Date of Collection: 1/19/2024
Date of Preparation: 1/25/2024
Date of Analysis: 1/25/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A

Lab Sample ID: AC11155
Matrix: Air
Amount Prepared: 500 mL
Percent Solids: N/A
Extract Dilution: 1.572
pH: N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.69	
100-42-5	Styrene	ND	ND	0.26	
95-47-6	o-Xylene	ND	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.45	
622-96-8	4-Ethyltoluene	ND	ND	0.32	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.32	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.31	
541-73-1	1,3-Dichlorobenzene	ND	ND	0.38	
100-44-7	Benzyl Chloride	ND	ND	0.28	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.36	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.37	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.48	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.70	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	97	89 - 130
Bromofluorobenzene (SS3)	99	84 - 111
Toluene,d8 (SS2)	99	89 - 108

Comments: Tentatively Identified non-Target Compounds

9 Fossa Ave - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC11143

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
1,1,1-Trichloroethane	ND	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	ND	50
1,1,2-Trichloroethane	ND	ND	ND	50
1,1-Dichloroethane	ND	ND	ND	50
1,1-Dichloroethylene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2,4-Trimethylbenzene	ND	ND	ND	50
1,2-Dibromoethane	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,2-Dichloroethane	ND	ND	ND	50
1,2-Dichloropropane	ND	ND	ND	50
1,3,5-Trimethylbenzene	ND	ND	ND	50
1,3-Butadiene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
2-Hexanone	ND	ND	ND	50
4-Ethyltoluene	ND	ND	ND	50
Acrylonitrile	ND	ND	ND	50
Allyl chloride	ND	ND	ND	50
Benzene	0.322	0.324	0.619	50
Benzyl Chloride	ND	ND	ND	50
Bromodichloromethane	ND	ND	ND	50
Bromoform	ND	ND	ND	50
Carbon Tetrachloride	ND	ND	ND	50
Chlorobenzene	ND	ND	ND	50
Chloroethane	ND	ND	ND	50
Chloroform	0.783	0.832	6.07	50
Cyclohexane	0.2	0.195	2.53	50
Dibromochloromethane	ND	ND	ND	50
Dichlorodifluoromethane	0.925	0.898	2.96	50
Dichlorotetrafluoroethane	ND	ND	ND	50
Ethylbenzene	0.112	0.115	2.64	50
Heptane	0.118	0.105	11.7	50
Hexachloro-1,3-butadiene	ND	ND	ND	50
Methyl Ethyl Ketone	0.16	0.164	2.47	50
Methyl Isobutyl Ketone	ND	ND	ND	50
Methyl-t-Butyl Ether	ND	ND	ND	50
Methylbromide	ND	ND	ND	50
Methylchloride	0.61	0.602	1.32	50
Methylene chloride	ND	ND	ND	50
Styrene	0.074	0.065	12.9	50
Tetrachloroethylene	ND	ND	ND	50
Tetrahydrofuran	ND	ND	ND	50
Toluene	0.843	0.859	1.88	50
Trichloroethylene	ND	ND	ND	50
Trichloromonofluoromethane (F11)	0.198	0.228	14.1	50

9 Fossa Ave - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC11143

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
Trichlorotrifluoromethane (F113)	ND	ND	ND	50
Vinyl Bromide	ND	ND	ND	50
Vinylchloride	ND	ND	ND	50
c-1,2-Dichloroethylene	ND	ND	ND	50
c-1,3-Dichloropropylene	ND	ND	ND	50
m/p-Xylenes	0.288	0.3	4.08	50
n-Hexane	0.438	0.43	1.84	50
o-Xylene	0.118	0.119	0.844	50
t-1,2--Dichloroethylene	ND	ND	ND	50
t-1,3-Dichloropropylene	ND	ND	ND	50

Comments:

9 Fossa Ave - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ppb/V	LFB RESULT ppb/V	LFB RECOVERY %	QC LIMITS %
1,1,1-Trichloroethane	1.2	1.194	100	73 - 131
1,1,2,2-Tetrachloroethane	1.200	0.986	82	64 - 139
1,1,2-Trichloroethane	1.189	1.099	92	79 - 126
1,1-Dichloroethane	1.177	0.987	84	83 - 134
1,1-Dichloroethylene	1.211	1.122	93	86 - 135
1,2,4-Trichlorobenzene	1.177	1.194	101	40 - 160
1,2,4-Trimethylbenzene	1.155	1.313	114	35 - 159
1,2-Dibromoethane	1.166	0.728	62	40 - 160
1,2-Dichlorobenzene	1.132	1.117	99	52 - 137
1,2-Dichloroethane	1.177	1.049	89	81 - 139
1,2-Dichloropropane	1.200	1.187	99	82 - 128
1,3,5-Trimethylbenzene	1.200	1.264	105	47 - 150
1,3-Butadiene	2.367	2.195	93	86 - 141
1,3-Dichlorobenzene	1.155	0.916	79	53 - 139
1,4-Dichlorobenzene	1.087	1.069	98	40 - 153
2-Hexanone	1.039	0.555	53	40 - 160
4-Ethyltoluene	1.178	1.338	114	29 - 179
Acrylonitrile	1.019	0.300	29	67 - 165
Allyl chloride	1.109	1.041	94	40 - 160
Benzene	1.223	1.102	90	81 - 117
Benzyl Chloride	0.993	0.754	76	40 - 160
Bromodichloromethane	1.143	1.211	106	66 - 140
Bromoform	1.224	1.048	86	40 - 160
Carbon Tetrachloride	1.189	1.022	86	69 - 125
Chlorobenzene	1.200	1.138	95	76 - 130
Chloroethane	1.155	1.051	91	44 - 179
Chloroform	1.223	1.796	147	40 - 160
Cyclohexane	1.213	1.228	101	65 - 145
Dibromochloromethane	1.141	1.129	99	48 - 172
Dichlorodifluoromethane	1.189	1.069	90	84 - 138
Dichlorotetrafluoroethane	1.143	1.020	89	89 - 139
Ethylbenzene	1.200	1.143	95	77 - 126
Heptane	1.178	1.231	104	56 - 143
Hexachloro-1,3-butadiene	1.200	1.153	96	35 - 154
Methyl Ethyl Ketone	1.109	1.162	105	40 - 160
Methyl Isobutyl Ketone	1.120	1.253	112	40 - 160
Methyl-t-Butyl Ether	1.213	1.212	100	69 - 155
Methylbromide	1.155	0.745	65	60 - 171
Methylchloride	1.189	1.101	93	70 - 151
Methylene chloride	1.177	0.985	84	81 - 126
Styrene	1.109	1.109	100	51 - 150
Tetrachloroethylene	1.2	1.097	91	72 - 130
Tetrahydrofuran	1.063	1.048	99	59 - 159
Toluene	1.223	1.059	87	74 - 127
Trichloroethylene	1.234	1.298	105	74 - 121
Trichloromonofluoromethane (F11)	1.143	1.089	95	75 - 143
Trichlorotrifluoromethane (F113)	1.234	1.078	87	83 - 134
Vinyl Bromide	1.201	1.232	103	70 - 158
Vinylchloride	1.177	1.047	89	86 - 138
c-1,2-Dichloroethylene	1.189	1.057	89	88 - 128
c-1,3-Dichloropropylene	1.189	0.578	49	40 - 160
m/p-Xylenes	2.377	2.288	96	73 - 136
n-Hexane	1.213	1.192	98	81 - 144

9 Fossa Ave - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ppb/V	LFB RESULT ppb/V	LFB RECOVERY %	QC LIMITS %
o-Xylene	1.200	1.181	98	74 - 127
t-1,2--Dichloroethylene	1.213	1.150	95	80 - 150
t-1,3-Dichloropropylene	1.019	0.374	37	59 - 130

Comments:

PW: 24010013

USEPA Region I
Date Shipped: 1/22/2024
Fossa Ave VI Site


CHAIN OF CUSTODY RECORD
Site #: S50187NH
Contact Name: Tara LePage
Contact Phone: 978-621-1202

No: 1-012224-123042-2
Fossa Ave VI Site
Lab: NERL LSASD
Lab Phone: 6176188490

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Numb Co nt	Container	Pump #	Orifice D	Start Pre ssu re	Stop Pre ssu re	Start Date	Stop Date	Start Time	Stop Time	Total Time
	S50187NH-0008	P2B-1FLR	TO-15	Air	1/17/2024	1	Summa Canister	22693	A01955 29.4	-30	-9	1/17/2024	1/18/2024	9:08:00 AM	8:01:00 AM	1373
	S50187NH-0009	P1A-1FKT	TO-15	Air	1/17/2024	1	Summa Canister	14898	A01537 67.4	-30	0	1/17/2024	1/18/2024	9:34:00 AM	8:32:00 AM	1378
	S50187NH-0010	P1A-1FKT	TO-15	Air	1/17/2024	1	Summa Canister	12568	A01537 65.1	-30	-9	1/17/2024	1/18/2024	9:34:00 AM	8:32:00 AM	1378
	S50187NH-0011	P2C-1FKT	TO-15	Air	1/17/2024	1	Summa Canister	13489	153846	-30	-11	1/17/2024	1/18/2024	9:43:00 AM	8:08:00 AM	1345
	S50187NH-0012	P1B-1FKT	TO-15	Air	1/17/2024	1	Summa Canister	5810	153841	-30	-8	1/17/2024	1/18/2024	10:05:00 AM	9:04:00 AM	1379
	S50187NH-0013	P2D-1FKT	TO-15	Air	1/17/2024	1	Summa Canister	12565	123643	-30	-10	1/17/2024	1/18/2024	10:12:00 AM	9:18:00 AM	1386

Special Instructions: Please send sample results to OSC Sherry Banks.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Tara LePage / START WKS FOR	1/23/24 / 1500	 (ERAT)	1/22/24 / 1500	

No: 1-012224-123042-2
Fossa Ave VI Site
Lab: NERL LSASD
Lab Phone: 6176188490

A/c: 4.042224 422043 2

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Nu mb Co nt	Container	Pump #	Orificel D	Star t Pre ssu re	Sto p Pre ssu re	Start _Dat e	Start _Tim e	Stop _Dat e	Stop _Tim e	Total _Tim e
	S50187NH-0015	P2-OS	TO-15	Air	1/17/2024	1	Summa Canister	22105	126461	-30	-6	1/17/2024	1:40: PM	1/18/2024	12:41 :00 PM	1361
	S50187NH-0019	P1D-1FKT	TO-15	Air	1/17/2024	1	Summa Canister	12571	7212632	-30	-10	1/17/2024	4:31: PM	1/18/2024	3:41: :00 PM	1390
	S50187NH-0023	P3W-1FLR	TO-15	Air	1/17/2024	1	Summa Canister	20956	8195	-30	-8	1/18/2024	1:08: PM	1/19/2024	12:02 :00 PM	1374
	S50187NH-0024	P3-BT	TO-15	Air	1/17/2024	1	Summa Canister	1114	7211770	-30	-9	1/18/2024	1:12: PM	1/19/2024	12:04 :00 PM	1372
	S50187NH-0025	P3E-1FLR	TO-15	Air	1/17/2024	1	Summa Canister	1577	A0153765-4	-30	-1	1/18/2024	1:17: PM	1/19/2024	12:04 :00 PM	1367
	S50187NH-0026	P4N-1FLR	TO-15	Air	1/17/2024	1	Summa Canister	22682	8194	-30	-11	1/18/2024	1:22: PM	1/19/2024	12:11 :00 PM	1369

Special Instructions: Please send sample results to OSC Sherry Banks.

SAMPLES TRANSFERRED FROM

[illegible]

CHAIN OF CUSTODY RECORD

No: 1-012224-123042-2

DateShipped: 1/22/2024

Site #: S50187NH

Fossa Ave VI Site

Fossa Ave VI Site

Contact Name: Tara LePage

Lab: NERL LSAD

Contact Phone: 978-621-1202

Lab Phone: 6176188490

[illegible]

Special Instructions: Please send sample results to OSC Sherry Banks.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Parkway / START/urson	11/22/24 / 1500	[Signature] (ESAT)	11/22/24 1500	

US EPA REGION 1
SAMPLE RECEIPT CHECKLIST

PROJ#: 24010012, 21010013	RECEIPT DATE: 01/22/24	REC'D BY: Dan Casey (ESAT)	OSC/PO: Sherry Banks
SURVEY NAME: 9 Fossa Ave		LOCATION: Nashua, NH	
SITE ID: 01RX		SUPERFUND: Y	

TRACKING #:		NO, Hand Delivered <input checked="" type="checkbox"/>	
DATE/SENT:			
WERE SAMPLES SHIPPED? N <input checked="" type="checkbox"/>			
COOLER TEMPERATURE UPON ARRIVAL °C/NA		CHAIN OF CUSTODY PRESENT? Y <input checked="" type="checkbox"/>	
COMPLETED? Y <input checked="" type="checkbox"/>		CUSTODY SEALS PRESENT ON COOLER? N <input checked="" type="checkbox"/>	
WERE SAMPLE CONTAINERS INTACT? Y <input checked="" type="checkbox"/>		WERE SAMPLES? N <input checked="" type="checkbox"/>	
WAS SAMPLE PRESERVATION DOCUMENTED? N <input checked="" type="checkbox"/>		COC Sample Container	
APPROPRIATE SAMPLES VOLUME		FOR REQUESTED ANALYSIS? Y <input checked="" type="checkbox"/>	
SAMPLES AND COC MATCH? Y <input checked="" type="checkbox"/>		IF ANY PROBLEMS WAS PROJECT MANAGER NOTIFIED?	
BY WHOM?		APPROPRIATE SAMPLE CONTAINERS? Y <input checked="" type="checkbox"/>	
SAMPLES WITHIN HOLDING TIMES? Y <input checked="" type="checkbox"/>		ALL ANALYSIS SPECIFIED ON COC? Y <input checked="" type="checkbox"/>	
DATE/TIME OF COLLECTION ON COC Y <input checked="" type="checkbox"/>		TURN-AROUND TIME: 4 Weeks	

COMMENTS: Air canisters
Soil gas
PN: 24010012
10 #\$/AIRTX
PN: 24100013
Air
16 #\$/AIRTX

Laboratory Report

July 18, 2024

Abdine Ouedraogo (2-MI)

Sherry Banks (2-CO)

US EPA New England R1

Project Number: 24070013
Project: Fossa Ave VI Site - Nashua, NH
Analysis: Air Toxics by GC/MS
EPA Chemist: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-AIRCAN12.

Samples were analyzed by GC/MS using an quadrapole mass spectrometer. Samples were introduced to the GC via an Entech preconcentrator using cryofocusing. Analysis SOP is based on Compendium Method TO-15, update January 1999.

Conversion of ppbv to ug/m3 = ppbv*(mw/24.45) 24.45 is based on T=25c and P = 760 mm Hg

Date Samples Received by the Laboratory: 07/10/2024

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

DANIEL

BOUDREAU

Digitally signed by
DANIEL BOUDREAU

Date: 2024.07.18
07:55:35 -04'00'

24070013\$AIRTX

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	4743	Lab Sample ID:	AC14207
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.695
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.76	3.8	0.33	
74-87-3	Methylchloride	0.85	1.7	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.45	
75-01-4	Vinylchloride	ND	ND	0.17	
106-99-0	1,3-Butadiene	ND	ND	0.30	
74-83-9	Methylbromide	ND	ND	0.25	
75-00-3	Chloroethane	ND	ND	0.42	
593-60-2	Vinyl Bromide	ND	ND	0.31	
75-69-4	Trichloromonofluoromethane (F11)	0.26	1.5	0.38	
107-13-1	Acrylonitrile	ND	ND	0.11	
75-35-4	1,1-Dichloroethylene	ND	ND	0.27	
75-09-2	Methylene chloride	ND	ND	0.22	
107-05-1	Allyl chloride	ND	ND	0.21	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	0.52	
156-60-5	t-1,2-Dichloroethylene	ND	ND	0.28	
75-34-3	1,1-Dichloroethane	ND	ND	0.26	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.25	
78-93-3	Methyl Ethyl Ketone	0.93	2.7	0.19	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.26	
110-54-3	n-Hexane	0.13	0.46	0.25	
67-66-3	Chloroform	ND	ND	0.34	
109-99-9	Tetrahydrofuran	0.11	0.32	0.19	
107-06-2	1,2-Dichloroethane	ND	ND	0.26	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.36	
71-43-2	Benzene	0.18	0.59	0.22	
56-23-5	Carbon Tetrachloride	ND	ND	0.42	
110-82-7	Cyclohexane	ND	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	ND	0.31	
75-27-4	Bromodichloromethane	ND	ND	0.46	
79-01-6	Trichloroethylene	ND	ND	0.37	
142-82-5	Heptane	0.057	0.23	0.28	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.30	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.26	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.37	
108-88-3	Toluene	0.54	2.0	0.25	
591-78-6	2-Hexanone	ND	ND	0.23	
124-48-1	Dibromochloromethane	ND	ND	0.58	
106-93-4	1,2-Dibromoethane	ND	ND	0.51	
127-18-4	Tetrachloroethylene	ND	ND	0.45	
108-90-7	Chlorobenzene	ND	ND	0.31	
100-41-4	Ethylbenzene	0.094	0.41	0.29	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	4743	Lab Sample ID:	AC14207
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.695
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.74	
1330-20-7	m/p-Xylenes	0.29	1.2	0.58	
100-42-5	Styrene	0.16	0.67	0.27	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.46	
95-47-6	o-Xylene	ND	ND	0.29	
622-96-8	4-Ethyltoluene	ND	ND	0.33	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.33	
95-63-6	1,2,4-Trimethylbenzene	0.073	0.36	0.32	
100-44-7	Benzyl Chloride	ND	ND	0.26	
542-73-1	1,3-Dichlorobenzene	ND	ND	0.40	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.38	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.38	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.47	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.72	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	111	89 - 130
Bromofluorobenzene (SS3)	101	84 - 111
Toluene,d8 (SS2)	106	89 - 108

Comments:

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22105	Lab Sample ID:	AC14208
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.7
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.55	2.7	0.33	
74-87-3	Methylchloride	1.3	2.8	0.14	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.45	
75-01-4	Vinylchloride	ND	ND	0.17	
106-99-0	1,3-Butadiene	0.43	0.94	0.30	
74-83-9	Methylbromide	ND	ND	0.25	
75-00-3	Chloroethane	ND	ND	0.42	
593-60-2	Vinyl Bromide	ND	ND	0.31	
75-69-4	Trichloromonofluoromethane (F11)	0.26	1.5	0.38	
107-13-1	Acrylonitrile	0.21	0.45	0.11	
75-35-4	1,1-Dichloroethylene	ND	ND	0.27	
75-09-2	Methylene chloride	ND	ND	0.22	
107-05-1	Allyl chloride	ND	ND	0.21	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	0.53	
156-60-5	t-1,2-Dichloroethylene	ND	ND	0.28	
75-34-3	1,1-Dichloroethane	ND	ND	0.26	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.25	
78-93-3	Methyl Ethyl Ketone	1.1	3.4	0.19	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.26	
110-54-3	n-Hexane	0.18	0.64	0.25	
67-66-3	Chloroform	0.69	3.4	0.34	
109-99-9	Tetrahydrofuran	0.19	0.57	0.19	
107-06-2	1,2-Dichloroethane	ND	ND	0.26	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.36	
71-43-2	Benzene	0.39	1.2	0.22	
56-23-5	Carbon Tetrachloride	ND	ND	0.42	
110-82-7	Cyclohexane	1.5	5.3	0.24	
78-87-5	1,2-Dichloropropane	ND	ND	0.31	
75-27-4	Bromodichloromethane	0.17	1.1	0.46	
79-01-6	Trichloroethylene	ND	ND	0.37	
142-82-5	Heptane	0.072	0.29	0.28	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.30	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.26	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.37	
108-88-3	Toluene	0.85	3.2	0.26	
591-78-6	2-Hexanone	ND	ND	0.23	
124-48-1	Dibromochloromethane	ND	ND	0.58	
106-93-4	1,2-Dibromoethane	ND	ND	0.51	
127-18-4	Tetrachloroethylene	ND	ND	0.46	
108-90-7	Chlorobenzene	ND	ND	0.31	
100-41-4	Ethylbenzene	0.34	1.5	0.29	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22105	Lab Sample ID:	AC14208
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.7
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.74	
1330-20-7	m/p-Xylenes	0.64	2.8	0.58	
100-42-5	Styrene	0.53	2.3	0.27	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.47	
95-47-6	o-Xylene	0.23	1.6	0.29	
622-96-8	4-Ethyltoluene	0.073	0.36	0.33	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.33	
95-63-6	1,2,4-Trimethylbenzene	0.13	0.64	0.32	
100-44-7	Benzyl Chloride	ND	ND	0.26	
542-73-1	1,3-Dichlorobenzene	ND	ND	0.40	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.38	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.38	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.47	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.72	

Surrogate Compounds

Recoveries (%)

QC Ranges

1,2-Dichloroethane,d4 (SS1)

104

89 - 130

Bromofluorobenzene (SS3)

99

84 - 111

Toluene,d8 (SS2)

107

89 - 108

Comments:

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13500	Lab Sample ID:	AC14209
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.657
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.70	3.5	0.32	
74-87-3	Methylchloride	ND	ND	0.13	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.44	
75-01-4	Vinylchloride	ND	ND	0.16	
106-99-0	1,3-Butadiene	ND	ND	0.29	
74-83-9	Methylbromide	ND	ND	0.24	
75-00-3	Chloroethane	ND	ND	0.41	
593-60-2	Vinyl Bromide	ND	ND	0.30	
75-69-4	Trichloromonofluoromethane (F11)	0.20	1.1	0.37	
107-13-1	Acrylonitrile	ND	ND	0.10	
75-35-4	1,1-Dichloroethylene	ND	ND	0.26	
75-09-2	Methylene chloride	ND	ND	0.22	
107-05-1	Allyl chloride	ND	ND	0.21	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	0.51	
156-60-5	t-1,2-Dichloroethylene	ND	ND	0.27	
75-34-3	1,1-Dichloroethane	ND	ND	0.26	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.24	
78-93-3	Methyl Ethyl Ketone	0.70	2.1	0.18	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.26	
110-54-3	n-Hexane	0.15	0.54	0.24	
67-66-3	Chloroform	ND	ND	0.33	
109-99-9	Tetrahydrofuran	0.11	0.32	0.18	
107-06-2	1,2-Dichloroethane	ND	ND	0.26	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.36	
71-43-2	Benzene	0.17	0.53	0.21	
56-23-5	Carbon Tetrachloride	0.088	0.55	0.41	
110-82-7	Cyclohexane	ND	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	ND	0.30	
75-27-4	Bromodichloromethane	ND	ND	0.45	
79-01-6	Trichloroethylene	ND	ND	0.36	
142-82-5	Heptane	0.053	0.22	0.28	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.30	
108-10-1	Methyl Isobutyl Ketone	0.046	0.19	0.26	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.36	
108-88-3	Toluene	0.55	2.1	0.25	
591-78-6	2-Hexanone	ND	ND	0.22	
124-48-1	Dibromochloromethane	ND	ND	0.57	
106-93-4	1,2-Dibromoethane	ND	ND	0.50	
127-18-4	Tetrachloroethylene	ND	ND	0.44	
108-90-7	Chlorobenzene	ND	ND	0.31	
100-41-4	Ethylbenzene	0.099	0.43	0.29	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13500	Lab Sample ID:	AC14209
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.657
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.72	
1330-20-7	m/p-Xylenes	0.21	0.91	0.57	
100-42-5	Styrene	0.46	2.0	0.26	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.45	
95-47-6	o-Xylene	ND	ND	0.29	
622-96-8	4-Ethyltoluene	ND	ND	0.32	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.32	
95-63-6	1,2,4-Trimethylbenzene	0.13	0.62	0.31	
100-44-7	Benzyl Chloride	ND	ND	0.26	
542-73-1	1,3-Dichlorobenzene	ND	ND	0.39	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.37	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.46	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.71	

Surrogate Compounds

Recoveries (%)

QC Ranges

1,2-Dichloroethane,d4 (SS1)

97

89 - 130

Bromofluorobenzene (SS3)

100

84 - 111

Toluene,d8 (SS2)

107

89 - 108

Comments:

Fossa Ave VI Site - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND		0.19	
74-87-3	Methylchloride	ND		0.080	
1320-37-2	Dichlorotetrafluoroethane	ND		0.26	
75-01-4	Vinylchloride	ND		0.098	
106-99-0	1,3-Butadiene	ND		0.18	
74-83-9	Methylbromide	ND		0.15	
75-00-3	Chloroethane	ND		0.25	
593-60-2	Vinyl Bromide	ND		0.18	
75-69-4	Trichloromonofluoromethane (F11)	ND		0.22	
107-13-1	Acrylonitrile	ND		0.063	
75-35-4	1,1-Dichloroethylene	ND		0.16	
75-09-2	Methylene chloride	ND		0.13	
107-05-1	Allyl chloride	ND		0.13	
76-13-1	Trichlorotrifluoroethane (F113)	ND		0.31	
156-60-5	t-1,2-Dichloroethylene	ND		0.16	
75-34-3	1,1-Dichloroethane	ND		0.16	
1634-04-4	Methyl-t-Butyl Ether	ND		0.15	
78-93-3	Methyl Ethyl Ketone	ND		0.11	
156-59-2	c-1,2-Dichloroethylene	ND		0.15	
110-54-3	n-Hexane	ND		0.15	
67-66-3	Chloroform	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.11	
107-06-2	1,2-Dichloroethane	ND		0.16	
71-55-6	1,1,1-Trichloroethane	ND		0.21	
71-43-2	Benzene	ND		0.13	
56-23-5	Carbon Tetrachloride	ND		0.25	
110-82-7	Cyclohexane	ND		0.14	
78-87-5	1,2-Dichloropropane	ND		0.18	
75-27-4	Bromodichloromethane	ND		0.27	
79-01-6	Trichloroethylene	ND		0.22	
142-82-5	Heptane	ND		0.17	
10061-01-5	c-1,3-Dichloropropylene	ND		0.18	
108-10-1	Methyl Isobutyl Ketone	ND		0.16	
10061-02-6	t-1,3-Dichloropropylene	ND		0.14	
79-00-5	1,1,2-Trichloroethane	ND		0.22	
108-88-3	Toluene	ND		0.15	
591-78-6	2-Hexanone	ND		0.13	
124-48-1	Dibromochloromethane	ND		0.34	
106-93-4	1,2-Dibromoethane	ND		0.30	
127-18-4	Tetrachloroethylene	ND		0.27	
108-90-7	Chlorobenzene	ND		0.18	
100-41-4	Ethylbenzene	ND		0.17	

Fossa Ave VI Site - Nashua, NH

Laboratory Blank

Client Sample ID: N/A
Date of Collection: N/A
Date of Preparation: 7/11/2024
Date of Analysis: 7/11/2024
Dry Weight Prepared: N/A
Wet Weight Prepared: N/A

Lab Sample ID: N/A
Matrix: Air
Amount Prepared: 500 mL
Percent Solids: N/A
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND		0.44	
1330-20-7	m/p-Xylenes	ND		0.34	
100-42-5	Styrene	ND		0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.27	
95-47-6	o-Xylene	ND		0.17	
622-96-8	4-Ethyltoluene	ND		0.20	
108-67-8	1,3,5-Trimethylbenzene	ND		0.19	
95-63-6	1,2,4-Trimethylbenzene	ND		0.19	
100-44-7	Benzyl Chloride	ND		0.15	
542-73-1	1,3-Dichlorobenzene	ND		0.24	
106-46-7	1,4-Dichlorobenzene	ND		0.22	
95-50-1	1,2-Dichlorobenzene	ND		0.23	
120-82-1	1,2,4-Trichlorobenzene	ND		0.28	
87-68-3	Hexachloro-1,3-butadiene	ND		0.43	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	96	89 - 130
Bromofluorobenzene (SS3)	95	84 - 111
Toluene,d8 (SS2)	110	89 - 108

Comments: Method blank LFB

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	5792	Lab Sample ID:	AC14210
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/12/2024	Amount Prepared:	500 mL
Date of Analysis:	7/12/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	10.456
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.41	2.0	2.0	
74-87-3	Methylchloride	1.2	2.5	0.84	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	2.8	
75-01-4	Vinylchloride	ND	ND	1.0	
106-99-0	1,3-Butadiene	ND	ND	1.8	
74-83-9	Methylbromide	ND	ND	1.5	
75-00-3	Chloroethane	ND	ND	2.6	
593-60-2	Vinyl Bromide	ND	ND	1.9	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	2.3	
107-13-1	Acrylonitrile	ND	ND	0.66	
75-35-4	1,1-Dichloroethylene	ND	ND	1.6	
75-09-2	Methylene chloride	ND	ND	1.4	
107-05-1	Allyl chloride	ND	ND	1.3	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	3.2	
156-60-5	t-1,2-Dichloroethylene	ND	ND	1.7	
75-34-3	1,1-Dichloroethane	ND	ND	1.6	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	1.5	
78-93-3	Methyl Ethyl Ketone	0.52	1.5	1.2	
156-59-2	c-1,2-Dichloroethylene	ND	ND	1.6	
110-54-3	n-Hexane	2.1	7.3	1.5	
67-66-3	Chloroform	ND	ND	2.1	
109-99-9	Tetrahydrofuran	ND	ND	1.2	
107-06-2	1,2-Dichloroethane	ND	ND	1.6	
71-55-6	1,1,1-Trichloroethane	ND	ND	2.2	
71-43-2	Benzene	0.46	1.5	1.3	
56-23-5	Carbon Tetrachloride	ND	ND	2.6	
110-82-7	Cyclohexane	ND	ND	1.5	
78-87-5	1,2-Dichloropropane	ND	ND	1.9	
75-27-4	Bromodichloromethane	ND	ND	2.8	
79-01-6	Trichloroethylene	ND	ND	2.3	
142-82-5	Heptane	ND	ND	1.7	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	1.9	
108-10-1	Methyl Isobutyl Ketone	ND	ND	1.6	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	1.5	
79-00-5	1,1,2-Trichloroethane	ND	ND	2.3	
108-88-3	Toluene	1.1	4.2	1.6	
591-78-6	2-Hexanone	ND	ND	1.4	
124-48-1	Dibromochloromethane	ND	ND	3.6	
106-93-4	1,2-Dibromoethane	ND	ND	3.2	
127-18-4	Tetrachloroethylene	ND	ND	2.8	
108-90-7	Chlorobenzene	ND	ND	1.9	
100-41-4	Ethylbenzene	ND	ND	1.8	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	5792	Lab Sample ID:	AC14210
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/12/2024	Amount Prepared:	500 mL
Date of Analysis:	7/12/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	10.456
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	4.6	
1330-20-7	m/p-Xylenes	ND	ND	3.6	
100-42-5	Styrene	ND	ND	1.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	2.9	
95-47-6	o-Xylene	ND	ND	1.8	
622-96-8	4-Ethyltoluene	ND	ND	2.0	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	2.0	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	2.0	
100-44-7	Benzyl Chloride	ND	ND	1.6	
542-73-1	1,3-Dichlorobenzene	ND	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	ND	2.3	
95-50-1	1,2-Dichlorobenzene	ND	ND	2.4	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	2.9	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	4.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	96	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	109	89 - 108

Comments:

Fossa Ave VI Site - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND	ND	0.19	
74-87-3	Methylchloride	ND	ND	0.080	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.26	
75-01-4	Vinylchloride	ND	ND	0.098	
106-99-0	1,3-Butadiene	ND	ND	0.18	
74-83-9	Methylbromide	ND	ND	0.15	
75-00-3	Chloroethane	ND	ND	0.25	
593-60-2	Vinyl Bromide	ND	ND	0.18	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	0.22	
107-13-1	Acrylonitrile	ND	ND	0.063	
75-35-4	1,1-Dichloroethylene	ND	ND	0.16	
75-09-2	Methylene chloride	ND	ND	0.13	
107-05-1	Allyl chloride	ND	ND	0.13	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	0.31	
156-60-5	t-1,2-Dichloroethylene	ND	ND	0.16	
75-34-3	1,1-Dichloroethane	ND	ND	0.16	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.15	
78-93-3	Methyl Ethyl Ketone	ND	ND	0.11	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.15	
110-54-3	n-Hexane	ND	ND	0.15	
67-66-3	Chloroform	ND	ND	0.20	
109-99-9	Tetrahydrofuran	ND	ND	0.11	
107-06-2	1,2-Dichloroethane	ND	ND	0.16	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.21	
71-43-2	Benzene	ND	ND	0.13	
56-23-5	Carbon Tetrachloride	ND	ND	0.25	
110-82-7	Cyclohexane	ND	ND	0.14	
78-87-5	1,2-Dichloropropane	ND	ND	0.18	
75-27-4	Bromodichloromethane	ND	ND	0.27	
79-01-6	Trichloroethylene	ND	ND	0.22	
142-82-5	Heptane	ND	ND	0.17	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.18	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.16	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.22	
108-88-3	Toluene	ND	ND	0.15	
591-78-6	2-Hexanone	ND	ND	0.13	
124-48-1	Dibromochloromethane	ND	ND	0.34	
106-93-4	1,2-Dibromoethane	ND	ND	0.30	
127-18-4	Tetrachloroethylene	ND	ND	0.27	
108-90-7	Chlorobenzene	ND	ND	0.18	
100-41-4	Ethylbenzene	ND	ND	0.17	

Fossa Ave VI Site - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Air
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.44	
1330-20-7	m/p-Xylenes	ND	ND	0.34	
100-42-5	Styrene	ND	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.27	
95-47-6	o-Xylene	ND	ND	0.17	
622-96-8	4-Ethyltoluene	ND	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.19	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.19	
100-44-7	Benzyl Chloride	ND	ND	0.15	
542-73-1	1,3-Dichlorobenzene	ND	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.22	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.23	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.28	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.43	

Surrogate Compounds

Recoveries (%)

QC Ranges

1,2-Dichloroethane,d4 (SS1)

107

89 - 130

Bromofluorobenzene (SS3)

94

84 - 111

Toluene,d8 (SS2)

107

89 - 108

Comments: Method blank for AC14207 - AC14211

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13490	Lab Sample ID:	AC14211
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/12/2024	Amount Prepared:	500 mL
Date of Analysis:	7/12/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.84
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	0.97	4.8	0.35	
74-87-3	Methylchloride	0.66	1.4	0.15	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	0.48	
75-01-4	Vinylchloride	ND	ND	0.18	
106-99-0	1,3-Butadiene	ND	ND	0.32	
74-83-9	Methylbromide	ND	ND	0.27	
75-00-3	Chloroethane	ND	ND	0.46	
593-60-2	Vinyl Bromide	ND	ND	0.33	
75-69-4	Trichloromonofluoromethane (F11)	0.24	1.4	0.41	
107-13-1	Acrylonitrile	ND	ND	0.12	
75-35-4	1,1-Dichloroethylene	ND	ND	0.29	
75-09-2	Methylene chloride	ND	ND	0.24	
107-05-1	Allyl chloride	ND	ND	0.23	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	0.57	
156-60-5	t-1,2-Dichloroethylene	ND	ND	0.30	
75-34-3	1,1-Dichloroethane	ND	ND	0.29	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	0.27	
78-93-3	Methyl Ethyl Ketone	0.59	1.7	0.20	
156-59-2	c-1,2-Dichloroethylene	ND	ND	0.28	
110-54-3	n-Hexane	ND	ND	0.27	
67-66-3	Chloroform	ND	ND	0.37	
109-99-9	Tetrahydrofuran	ND	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	ND	0.29	
71-55-6	1,1,1-Trichloroethane	ND	ND	0.39	
71-43-2	Benzene	0.083	0.27	0.23	
56-23-5	Carbon Tetrachloride	ND	ND	0.45	
110-82-7	Cyclohexane	ND	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	ND	0.33	
75-27-4	Bromodichloromethane	ND	ND	0.50	
79-01-6	Trichloroethylene	ND	ND	0.40	
142-82-5	Heptane	0.057	0.23	0.31	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	0.33	
108-10-1	Methyl Isobutyl Ketone	ND	ND	0.29	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	0.26	
79-00-5	1,1,2-Trichloroethane	ND	ND	0.40	
108-88-3	Toluene	0.23	0.88	0.28	
591-78-6	2-Hexanone	ND	ND	0.25	
124-48-1	Dibromochloromethane	ND	ND	0.63	
106-93-4	1,2-Dibromoethane	ND	ND	0.55	
127-18-4	Tetrachloroethylene	ND	ND	0.49	
108-90-7	Chlorobenzene	ND	ND	0.34	
100-41-4	Ethylbenzene	ND	ND	0.32	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13490	Lab Sample ID:	AC14211
Date of Collection:	7/10/2024	Matrix:	Air
Date of Preparation:	7/12/2024	Amount Prepared:	500 mL
Date of Analysis:	7/12/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1.84
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-25-2	Bromoform	ND	ND	0.80	
1330-20-7	m/p-Xylenes	ND	ND	0.63	
100-42-5	Styrene	ND	ND	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	0.50	
95-47-6	o-Xylene	ND	ND	0.32	
622-96-8	4-Ethyltoluene	ND	ND	0.36	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	0.36	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	0.34	
100-44-7	Benzyl Chloride	ND	ND	0.28	
542-73-1	1,3-Dichlorobenzene	ND	ND	0.43	
106-46-7	1,4-Dichlorobenzene	ND	ND	0.41	
95-50-1	1,2-Dichlorobenzene	ND	ND	0.42	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	0.51	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	0.78	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	102	89 - 130
Bromofluorobenzene (SS3)	92	84 - 111
Toluene,d8 (SS2)	102	89 - 108

Comments:

Fossa Ave VI Site - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC14209

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
1,1,1-Trichloroethane	ND	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	ND	50
1,1,2-Trichloroethane	ND	ND	ND	50
1,1-Dichloroethane	ND	ND	ND	50
1,1-Dichloroethylene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2,4-Trimethylbenzene	0.127	0.125	1.59	50
1,2-Dibromoethane	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,2-Dichloroethane	ND	ND	ND	50
1,2-Dichloropropane	ND	ND	ND	50
1,3,5-Trimethylbenzene	ND	ND	ND	50
1,3-Butadiene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
2-Hexanone	ND	ND	ND	50
4-Ethyltoluene	ND	ND	ND	50
Acrylonitrile	ND	ND	ND	50
Allyl chloride	ND	ND	ND	50
Benzene	0.165	0.172	4.15	50
Benzyl Chloride	ND	ND	ND	50
Bromodichloromethane	ND	ND	ND	50
Bromoform	ND	ND	ND	50
Carbon Tetrachloride	0.088	ND	ND	50
Chlorobenzene	ND	ND	ND	50
Chloroethane	ND	ND	ND	50
Chloroform	ND	ND	ND	50
Cyclohexane	ND	ND	ND	50
Dibromochloromethane	ND	ND	ND	50
Dichlorodifluoromethane	0.704	0.70	0.570	50
Dichlorotetrafluoroethane	ND	ND	ND	50
Ethylbenzene	0.099	0.073	30.2	50
Heptane	0.053	0.055	3.70	50
Hexachloro-1,3-butadiene	ND	ND	ND	50
Methyl Ethyl Ketone	0.703	0.716	1.83	50
Methyl Isobutyl Ketone	0.046	ND	ND	50
Methyl-t-Butyl Ether	ND	ND	ND	50
Methylbromide	ND	ND	ND	50
Methylchloride	ND	ND	ND	50
Methylene chloride	ND	ND	ND	50
Styrene	0.462	0.451	2.41	50
Tetrachloroethylene	ND	ND	ND	50
Tetrahydrofuran	0.107	0.092	15.1	50
Toluene	0.545	0.541	0.737	50
Trichloroethylene	ND	ND	ND	50

Fossa Ave VI Site - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC14209

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
Trichloromonofluoromethane (F11)	0.2	0.230	14.0	50
Trichlorotrifluoroethane (F113)	ND	ND	ND	50
Vinyl Bromide	ND	ND	ND	50
Vinylchloride	ND	ND	ND	50
c-1,2-Dichloroethylene	ND	ND	ND	50
c-1,3-Dichloropropylene	ND	ND	ND	50
m/p-Xylenes	0.209	0.209	0.00	50
n-Hexane	0.153	0.138	10.3	50
o-Xylene	ND	ND	ND	50
t-1,2-Dichloroethylene	ND	ND	ND	50
t-1,3-Dichloropropylene	ND	ND	ND	50

Comments:

Fossa Ave VI Site - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ppb/V	LFB RESULT ppb/V	LFB RECOVERY %	QC LIMITS %
1,1,1-Trichloroethane	0.922	0.805	87	73 - 131
1,1,2,2-Tetrachloroethane	0.922	0.713	77	64 - 139
1,1,2-Trichloroethane	0.913	0.812	89	79 - 126
1,1-Dichloroethane	0.904	0.774	86	83 - 134
1,1-Dichloroethylene	0.930	0.893	96	86 - 135
1,2,4-Trichlorobenzene	0.904	0.609	67	40 - 160
1,2,4-Trimethylbenzene	0.887	0.831	94	35 - 159
1,2-Dibromoethane	1.036	0.487	47	40 - 160
1,2-Dichlorobenzene	0.870	0.750	86	52 - 137
1,2-Dichloroethane	0.904	0.761	84	81 - 139
1,2-Dichloropropane	0.922	0.766	83	82 - 128
1,3,5-Trimethylbenzene	0.922	0.893	97	47 - 150
1,3-Butadiene	1.988	1.903	96	86 - 141
1,3-Dichlorobenzene	0.887	0.836	94	53 - 139
1,4-Dichlorobenzene	0.835	0.737	88	40 - 153
2-Hexanone	0.942	0.220	23	40 - 160
4-Ethyltoluene	1.065	0.995	93	29 - 179
Acrylonitrile	0.783	0.110	14	67 - 165
Allyl chloride	1.005	1.051	105	40 - 160
Benzene	0.939	0.843	90	81 - 117
Benzyl Chloride	0.900	0.235	26	40 - 160
Bromodichloromethane	1.036	1.043	101	66 - 140
Bromoform	1.109	0.913	82	40 - 160
Carbon Tetrachloride	0.913	0.864	95	69 - 125
Chlorobenzene	0.922	0.764	83	76 - 130
Chloroethane	0.887	0.837	94	44 - 179
Chloroform	0.939	0.816	87	40 - 160
Cyclohexane	1.099	1.012	92	65 - 145
Dibromochloromethane	0.896	0.951	106	48 - 172
Dichlorodifluoromethane	0.913	0.873	96	84 - 138
Dichlorotetrafluoroethane	0.878	0.837	95	89 - 139
Ethylbenzene	0.922	0.862	94	77 - 126
Heptane	1.068	1.036	97	56 - 143
Hexachloro-1,3-butadiene	0.922	0.857	93	35 - 154
Methyl Ethyl Ketone	1.055	0.928	88	40 - 160
Methyl Isobutyl Ketone	1.015	0.603	59	40 - 160
Methyl-t-Butyl Ether	1.099	1.143	104	69 - 155
Methylbromide	0.887	0.555	63	60 - 171
Methylchloride	0.913	0.879	96	70 - 151
Methylene chloride	0.904	0.679	75	81 - 126
Styrene	0.852	0.668	78	51 - 150
Tetrachloroethylene	0.922	0.768	83	72 - 130
Tetrahydrofuran	0.963	0.921	96	59 - 159
Toluene	0.939	0.800	85	74 - 127
Trichloroethylene	0.948	0.943	100	74 - 121
Trichloromonofluoromethane (F11)	0.878	0.789	90	75 - 143
Trichlorotrifluoroethane (F113)	0.948	0.796	84	83 - 134
Vinyl Bromide	1.088	1.235	114	70 - 158
Vinylchloride	0.904	0.818	91	86 - 138
c-1,2-Dichloroethylene	0.913	0.806	88	88 - 128
c-1,3-Dichloropropylene	0.913	0.334	37	40 - 160
m/p-Xylenes	1.826	1.676	92	73 - 136

Fossa Ave VI Site - Nashua, NH

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ppb/V	LFB RESULT ppb/V	LFB RECOVERY %	QC LIMITS %
n-Hexane	1.099	1.100	100	81 - 144
o-Xylene	0.922	0.835	91	74 - 127
t-1,2-Dichloroethylene	1.099	1.056	96	80 - 150
t-1,3-Dichloropropylene	0.783	0.118	15	59 - 130

Comments:

Site #: S50187NH

Contact Name: Bonnie Mace
Contact Phone: 978-621-1213

Fossa Ave. VI Site
Lab: NERL LSASD
Lab Phone: 617-618-8638

PN 24070013

[illegible]

Special Instructions: Please send sample results to OSC Abidine Ouédraogo.

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

[illegible]

US EPA REGION 1
SAMPLE RECEIPT CHECKLIST

PROJ#: 24070013	SURVEY NAME: 9 Fossa Ave LOCATION: Nashua, NH	OSC/PO: Abdine Quedraogo
RECEIPT DATE: 7/10/24	REC'D BY: Laura Glowacki (ESAT)	SITE ID: 01RX
		SUPERFUND: Y

WERE SAMPLES SHIPPED?	
TRACKING #:	
DATE/SENT:	
NO. Hand Delivered	<input checked="" type="checkbox"/>
COOLER TEMPERATURE UPON ARRIVAL	QC/NA
CHAIN OF CUSTODY PRESENT?	<input checked="" type="checkbox"/> Y
COMPLETE?	<input checked="" type="checkbox"/> Y
CUSTODY SEALS PRESENT ON COOLER?	<input checked="" type="checkbox"/> N
SAMPLES?	<input checked="" type="checkbox"/> N
WERE SAMPLE CONTAINERS INTACT?	<input checked="" type="checkbox"/> Y
WAS SAMPLE PRESERVATION DOCUMENTED?	<input checked="" type="checkbox"/> N
COC	Sample Container
APPROPRIATE SAMPLES VOLUME	
FOR REQUESTED ANALYSIS?	<input checked="" type="checkbox"/> Y
SAMPLES AND COC MATCH?	<input checked="" type="checkbox"/> Y
IF ANY PROBLEMS WAS PROJECT MANAGER NOTIFIED?	
BY WHOM?	NA
APPROPRIATE SAMPLE CONTAINERS?	<input checked="" type="checkbox"/> Y
SAMPLES WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/> Y
ALL ANALYSIS SPECIFIED ON COC?	<input checked="" type="checkbox"/> Y
DATE/TIME OF COLLECTION ON COC	<input checked="" type="checkbox"/> Y
TURN-AROUND TIME:	4 weeks

COMMENTS: Air samples 5 #SAIRTX

Laboratory Report

July 18, 2024

Abdine Ouedraogo (2-MI)

Sherry Banks (2-CO)

US EPA New England R1

Project Number: 24070014
Project: Fossa Ave VI Site - Nashua, NH
Analysis: Air Toxics by GC/MS
EPA Chemist: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-AIRCAN12.

Samples were analyzed by GC/MS using an quadrapole mass spectrometer. Samples were introduced to the GC via an Entech preconcentrator using cryofocusing. Analysis SOP is based on Compendium Method TO-15, update January 1999.

Conversion of ppbv to ug/m3 = $\text{ppbv} \times (\text{mw}/24.45)$ 24.45 is based on T=25c and P = 760 mm Hg

Date Samples Received by the Laboratory: 07/10/2024

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

**DANIEL
BOUDREAU**

Digitally signed by
DANIEL BOUDREAU
Date: 2024.07.18
09:27:41 -04'00'

24070014\$AIRTX

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13483	Lab Sample ID:	AC14212
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.912
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	1.5	7.3	3.8	
74-87-3	Methylchloride	ND	ND	1.6	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	5.1	
75-01-4	Vinylchloride	ND	ND	1.9	
106-99-0	1,3-Butadiene	ND	ND	3.4	
74-83-9	Methylbromide	ND	ND	2.8	
75-00-3	Chloroethane	ND	ND	4.9	
593-60-2	Vinyl Bromide	ND	ND	3.5	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	4.3	
107-13-1	Acrylonitrile	ND	ND	1.2	
75-35-4	1,1-Dichloroethylene	ND	ND	3.1	
75-09-2	Methylene chloride	ND	ND	2.6	
107-05-1	Allyl chloride	ND	ND	2.4	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	6.0	
156-60-5	t-1,2-Dichloroethylene	ND	ND	3.2	
75-34-3	1,1-Dichloroethane	ND	ND	3.0	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.8	
78-93-3	Methyl Ethyl Ketone	5.7	17	2.2	
156-59-2	c-1,2-Dichloroethylene	ND	ND	3.0	
110-54-3	n-Hexane	ND	ND	2.9	
67-66-3	Chloroform	ND	ND	3.9	
109-99-9	Tetrahydrofuran	ND	ND	2.2	
107-06-2	1,2-Dichloroethane	ND	ND	3.0	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.2	
71-43-2	Benzene	ND	ND	2.5	
56-23-5	Carbon Tetrachloride	ND	ND	4.8	
110-82-7	Cyclohexane	ND	ND	2.7	
78-87-5	1,2-Dichloropropane	ND	ND	3.5	
75-27-4	Bromodichloromethane	ND	ND	5.3	
79-01-6	Trichloroethylene	ND	ND	4.2	
142-82-5	Heptane	ND	ND	3.3	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.5	
108-10-1	Methyl Isobutyl Ketone	ND	ND	3.0	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	2.8	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.3	
108-88-3	Toluene	1.4	5.1	2.9	
591-78-6	2-Hexanone	ND	ND	2.6	
124-48-1	Dibromochloromethane	ND	ND	6.7	
106-93-4	1,2-Dibromoethane	ND	ND	5.9	
127-18-4	Tetrachloroethylene	62	420	5.2	
108-90-7	Chlorobenzene	ND	ND	3.6	
100-41-4	Ethylbenzene	ND	ND	3.4	
75-25-2	Bromoform	ND	ND	8.6	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	13483	Lab Sample ID:	AC14212
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.912
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
1330-20-7	m/p-Xylenes	ND	ND	6.7	
100-42-5	Styrene	ND	ND	3.1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.4	
95-47-6	o-Xylene	ND	ND	3.4	
622-96-8	4-Ethyltoluene	ND	ND	3.8	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	3.8	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	3.7	
100-44-7	Benzyl Chloride	ND	ND	3.0	
542-73-1	1,3-Dichlorobenzene	ND	ND	4.6	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.3	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.4	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.4	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	8.3	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	99	89 - 130
Bromofluorobenzene (SS3)	90	84 - 111
Toluene,d8 (SS2)	107	89 - 108

Comments:

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1589	Lab Sample ID:	AC14213
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	4.339
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	570	2800	4.2	E
74-87-3	Methylchloride	ND	ND	1.7	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	5.7	
75-01-4	Vinylchloride	ND	ND	2.1	
106-99-0	1,3-Butadiene	ND	ND	3.8	
74-83-9	Methylbromide	ND	ND	3.2	
75-00-3	Chloroethane	ND	ND	5.4	
593-60-2	Vinyl Bromide	ND	ND	3.9	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	4.8	
107-13-1	Acrylonitrile	ND	ND	1.4	
75-35-4	1,1-Dichloroethylene	ND	ND	3.4	
75-09-2	Methylene chloride	ND	ND	2.9	
107-05-1	Allyl chloride	ND	ND	2.7	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	6.7	
156-60-5	t-1,2-Dichloroethylene	ND	ND	3.5	
75-34-3	1,1-Dichloroethane	ND	ND	3.4	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	3.2	
78-93-3	Methyl Ethyl Ketone	4.1	12	2.4	
156-59-2	c-1,2-Dichloroethylene	ND	ND	3.3	
110-54-3	n-Hexane	ND	ND	3.2	
67-66-3	Chloroform	ND	ND	4.4	
109-99-9	Tetrahydrofuran	ND	ND	2.4	
107-06-2	1,2-Dichloroethane	ND	ND	3.4	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.6	
71-43-2	Benzene	ND	ND	2.8	
56-23-5	Carbon Tetrachloride	ND	ND	5.3	
110-82-7	Cyclohexane	ND	ND	3.0	
78-87-5	1,2-Dichloropropane	ND	ND	3.9	
75-27-4	Bromodichloromethane	ND	ND	5.9	
79-01-6	Trichloroethylene	ND	ND	4.7	
142-82-5	Heptane	ND	ND	3.6	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.9	
108-10-1	Methyl Isobutyl Ketone	ND	ND	3.4	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	3.1	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.7	
108-88-3	Toluene	ND	ND	3.3	
591-78-6	2-Hexanone	ND	ND	2.9	
124-48-1	Dibromochloromethane	ND	ND	7.4	
106-93-4	1,2-Dibromoethane	ND	ND	6.5	
127-18-4	Tetrachloroethylene	40	270	5.8	
108-90-7	Chlorobenzene	ND	ND	4.0	
100-41-4	Ethylbenzene	ND	ND	3.8	
75-25-2	Bromoform	ND	ND	9.5	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	1589	Lab Sample ID:	AC14213
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	4.339
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
1330-20-7	m/p-Xylenes	ND	ND	7.4	
100-42-5	Styrene	ND	ND	3.4	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.9	
95-47-6	o-Xylene	ND	ND	3.8	
622-96-8	4-Ethyltoluene	ND	ND	4.2	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	4.2	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	4.1	
100-44-7	Benzyl Chloride	ND	ND	3.3	
542-73-1	1,3-Dichlorobenzene	ND	ND	5.1	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.8	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.9	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	6.0	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	9.2	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	93	84 - 111
Toluene,d8 (SS2)	105	89 - 108

Comments: Dichlorodifluoromethane exceeded the calibration range

Fossa Ave VI Site - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	ND		0.19	
74-87-3	Methylchloride	ND		0.080	
1320-37-2	Dichlorotetrafluoroethane	ND		0.26	
75-01-4	Vinylchloride	ND		0.098	
106-99-0	1,3-Butadiene	ND		0.18	
74-83-9	Methylbromide	ND		0.15	
75-00-3	Chloroethane	ND		0.25	
593-60-2	Vinyl Bromide	ND		0.18	
75-69-4	Trichloromonofluoromethane (F11)	ND		0.22	
107-13-1	Acrylonitrile	ND		0.063	
75-35-4	1,1-Dichloroethylene	ND		0.16	
75-09-2	Methylene chloride	ND		0.13	
107-05-1	Allyl chloride	ND		0.13	
76-13-1	Trichlorotrifluoroethane (F113)	ND		0.31	
156-60-5	t-1,2-Dichloroethylene	ND		0.16	
75-34-3	1,1-Dichloroethane	ND		0.16	
1634-04-4	Methyl-t-Butyl Ether	ND		0.15	
78-93-3	Methyl Ethyl Ketone	ND		0.11	
156-59-2	c-1,2-Dichloroethylene	ND		0.15	
110-54-3	n-Hexane	ND		0.15	
67-66-3	Chloroform	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.11	
107-06-2	1,2-Dichloroethane	ND		0.16	
71-55-6	1,1,1-Trichloroethane	ND		0.21	
71-43-2	Benzene	ND		0.13	
56-23-5	Carbon Tetrachloride	ND		0.25	
110-82-7	Cyclohexane	ND		0.14	
78-87-5	1,2-Dichloropropane	ND		0.18	
75-27-4	Bromodichloromethane	ND		0.27	
79-01-6	Trichloroethylene	ND		0.22	
142-82-5	Heptane	ND		0.17	
10061-01-5	c-1,3-Dichloropropylene	ND		0.18	
108-10-1	Methyl Isobutyl Ketone	ND		0.16	
10061-02-6	t-1,3-Dichloropropylene	ND		0.14	
79-00-5	1,1,2-Trichloroethane	ND		0.22	
108-88-3	Toluene	ND		0.15	
591-78-6	2-Hexanone	ND		0.13	
124-48-1	Dibromochloromethane	ND		0.34	
106-93-4	1,2-Dibromoethane	ND		0.30	
127-18-4	Tetrachloroethylene	ND		0.27	
108-90-7	Chlorobenzene	ND		0.18	
100-41-4	Ethylbenzene	ND		0.17	
75-25-2	Bromoform	ND		0.44	

Fossa Ave VI Site - Nashua, NH

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	500 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
1330-20-7	m/p-Xylenes	ND		0.34	
100-42-5	Styrene	ND		0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.27	
95-47-6	o-Xylene	ND		0.17	
622-96-8	4-Ethyltoluene	ND		0.20	
108-67-8	1,3,5-Trimethylbenzene	ND		0.19	
95-63-6	1,2,4-Trimethylbenzene	ND		0.19	
100-44-7	Benzyl Chloride	ND		0.15	
542-73-1	1,3-Dichlorobenzene	ND		0.24	
106-46-7	1,4-Dichlorobenzene	ND		0.22	
95-50-1	1,2-Dichlorobenzene	ND		0.23	
120-82-1	1,2,4-Trichlorobenzene	ND		0.28	
87-68-3	Hexachloro-1,3-butadiene	ND		0.43	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	96	89 - 130
Bromofluorobenzene (SS3)	93	84 - 111
Toluene,d8 (SS2)	110	89 - 108

Comments: Method Blank for all 100 mL analyses

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	6579	Lab Sample ID:	AC14214
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.627
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	840	4100	3.5	E
74-87-3	Methylchloride	ND	ND	1.5	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	4.8	
75-01-4	Vinylchloride	ND	ND	1.8	
106-99-0	1,3-Butadiene	ND	ND	3.2	
74-83-9	Methylbromide	ND	ND	2.6	
75-00-3	Chloroethane	ND	ND	4.5	
593-60-2	Vinyl Bromide	ND	ND	3.3	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	4.0	
107-13-1	Acrylonitrile	ND	ND	1.1	
75-35-4	1,1-Dichloroethylene	ND	ND	2.9	
75-09-2	Methylene chloride	ND	ND	2.4	
107-05-1	Allyl chloride	ND	ND	2.3	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	5.6	
156-60-5	t-1,2-Dichloroethylene	ND	ND	3.0	
75-34-3	1,1-Dichloroethane	ND	ND	2.8	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	2.6	
78-93-3	Methyl Ethyl Ketone	1.1	3.4	2.0	
156-59-2	c-1,2-Dichloroethylene	ND	ND	2.8	
110-54-3	n-Hexane	ND	ND	2.7	
67-66-3	Chloroform	ND	ND	3.7	
109-99-9	Tetrahydrofuran	ND	ND	2.0	
107-06-2	1,2-Dichloroethane	ND	ND	2.8	
71-55-6	1,1,1-Trichloroethane	ND	ND	3.9	
71-43-2	Benzene	ND	ND	2.3	
56-23-5	Carbon Tetrachloride	ND	ND	4.5	
110-82-7	Cyclohexane	ND	ND	2.5	
78-87-5	1,2-Dichloropropane	ND	ND	3.3	
75-27-4	Bromodichloromethane	ND	ND	4.9	
79-01-6	Trichloroethylene	ND	ND	3.9	
142-82-5	Heptane	ND	ND	3.0	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.2	
108-10-1	Methyl Isobutyl Ketone	0.95	3.9	2.8	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	2.6	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.0	
108-88-3	Toluene	ND	ND	2.7	
591-78-6	2-Hexanone	ND	ND	2.4	
124-48-1	Dibromochloromethane	ND	ND	6.2	
106-93-4	1,2-Dibromoethane	ND	ND	5.5	
127-18-4	Tetrachloroethylene	12	78	4.9	
108-90-7	Chlorobenzene	ND	ND	3.3	
100-41-4	Ethylbenzene	ND	ND	3.1	
75-25-2	Bromoform	ND	ND	7.9	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	6579	Lab Sample ID:	AC14214
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	3.627
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
1330-20-7	m/p-Xylenes	ND	ND	6.2	
100-42-5	Styrene	ND	ND	2.9	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	5.0	
95-47-6	o-Xylene	ND	ND	3.1	
622-96-8	4-Ethyltoluene	ND	ND	3.5	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	3.5	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	3.4	
100-44-7	Benzyl Chloride	ND	ND	2.8	
542-73-1	1,3-Dichlorobenzene	ND	ND	4.3	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.0	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.1	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	5.0	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	7.7	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	100	89 - 130
Bromofluorobenzene (SS3)	95	84 - 111
Toluene,d8 (SS2)	104	89 - 108

Comments: Dichlorodifluoromethane exceeded the calibration range

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22687	Lab Sample ID:	AC14215
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	4.365
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
75-71-8	Dichlorodifluoromethane	510	2500	4.2	E
74-87-3	Methylchloride	ND	ND	1.8	
1320-37-2	Dichlorotetrafluoroethane	ND	ND	5.7	
75-01-4	Vinylchloride	ND	ND	2.1	
106-99-0	1,3-Butadiene	ND	ND	3.8	
74-83-9	Methylbromide	ND	ND	3.2	
75-00-3	Chloroethane	ND	ND	5.4	
593-60-2	Vinyl Bromide	ND	ND	3.9	
75-69-4	Trichloromonofluoromethane (F11)	ND	ND	4.9	
107-13-1	Acrylonitrile	ND	ND	1.4	
75-35-4	1,1-Dichloroethylene	ND	ND	3.4	
75-09-2	Methylene chloride	ND	ND	2.9	
107-05-1	Allyl chloride	ND	ND	2.7	
76-13-1	Trichlorotrifluoroethane (F113)	ND	ND	6.7	
156-60-5	t-1,2-Dichloroethylene	ND	ND	3.6	
75-34-3	1,1-Dichloroethane	ND	ND	3.4	
1634-04-4	Methyl-t-Butyl Ether	ND	ND	3.2	
78-93-3	Methyl Ethyl Ketone	2.0	5.8	2.4	
156-59-2	c-1,2-Dichloroethylene	ND	ND	3.4	
110-54-3	n-Hexane	ND	ND	3.2	
67-66-3	Chloroform	ND	ND	4.4	
109-99-9	Tetrahydrofuran	ND	ND	2.4	
107-06-2	1,2-Dichloroethane	ND	ND	3.4	
71-55-6	1,1,1-Trichloroethane	ND	ND	4.7	
71-43-2	Benzene	ND	ND	2.8	
56-23-5	Carbon Tetrachloride	ND	ND	5.4	
110-82-7	Cyclohexane	ND	ND	3.1	
78-87-5	1,2-Dichloropropane	ND	ND	4.0	
75-27-4	Bromodichloromethane	ND	ND	5.9	
79-01-6	Trichloroethylene	ND	ND	4.7	
142-82-5	Heptane	ND	ND	3.6	
10061-01-5	c-1,3-Dichloropropylene	ND	ND	3.9	
108-10-1	Methyl Isobutyl Ketone	ND	ND	3.4	
10061-02-6	t-1,3-Dichloropropylene	ND	ND	3.1	
79-00-5	1,1,2-Trichloroethane	ND	ND	4.8	
108-88-3	Toluene	ND	ND	3.3	
591-78-6	2-Hexanone	ND	ND	2.9	
124-48-1	Dibromochloromethane	ND	ND	7.5	
106-93-4	1,2-Dibromoethane	ND	ND	6.6	
127-18-4	Tetrachloroethylene	34	230	5.9	
108-90-7	Chlorobenzene	ND	ND	4.0	
100-41-4	Ethylbenzene	ND	ND	3.8	
75-25-2	Bromoform	ND	ND	9.5	

Fossa Ave VI Site - Nashua, NH

Air Toxics by GC/MS

Client Sample ID:	22687	Lab Sample ID:	AC14215
Date of Collection:	7/10/2024	Matrix:	Soil vapor
Date of Preparation:	7/11/2024	Amount Prepared:	100 mL
Date of Analysis:	7/11/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	4.365
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ppbv	Concentration ug/m3	RL ug/m3	Qualifier
1330-20-7	m/p-Xylenes	ND	ND	7.5	
100-42-5	Styrene	ND	ND	3.5	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	6.0	
95-47-6	o-Xylene	ND	ND	3.8	
622-96-8	4-Ethyltoluene	ND	ND	4.3	
108-67-8	1,3,5-Trimethylbenzene	ND	ND	4.2	
95-63-6	1,2,4-Trimethylbenzene	ND	ND	4.1	
100-44-7	Benzyl Chloride	ND	ND	3.4	
542-73-1	1,3-Dichlorobenzene	ND	ND	5.1	
106-46-7	1,4-Dichlorobenzene	ND	ND	4.9	
95-50-1	1,2-Dichlorobenzene	ND	ND	4.9	
120-82-1	1,2,4-Trichlorobenzene	ND	ND	6.0	
87-68-3	Hexachloro-1,3-butadiene	ND	ND	9.3	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane,d4 (SS1)	103	89 - 130
Bromofluorobenzene (SS3)	96	84 - 111
Toluene,d8 (SS2)	110	89 - 108

Comments: Dichlorodifluoromethane exceeded the calibration range

Fossa Ave VI Site - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC14213

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
1,1,1-Trichloroethane	ND	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	ND	50
1,1,2-Trichloroethane	ND	ND	ND	50
1,1-Dichloroethane	ND	ND	ND	50
1,1-Dichloroethylene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2,4-Trimethylbenzene	ND	ND	ND	50
1,2-Dibromoethane	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,2-Dichloroethane	ND	ND	ND	50
1,2-Dichloropropane	ND	ND	ND	50
1,3,5-Trimethylbenzene	ND	ND	ND	50
1,3-Butadiene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
2-Hexanone	ND	ND	ND	50
4-Ethyltoluene	ND	ND	ND	50
Acrylonitrile	ND	ND	ND	50
Allyl chloride	ND	ND	ND	50
Benzene	ND	ND	ND	50
Benzyl Chloride	ND	ND	ND	50
Bromodichloromethane	ND	ND	ND	50
Bromoform	ND	ND	ND	50
Carbon Tetrachloride	ND	ND	ND	50
Chlorobenzene	ND	ND	ND	50
Chloroethane	ND	ND	ND	50
Chloroform	ND	ND	ND	50
Cyclohexane	ND	ND	ND	50
Dibromochloromethane	ND	ND	ND	50
Dichlorodifluoromethane	571	606.89	6.11	50
Dichlorotetrafluoroethane	ND	ND	ND	50
Ethylbenzene	ND	ND	ND	50
Heptane	ND	ND	ND	50
Hexachloro-1,3-butadiene	ND	ND	ND	50
Methyl Ethyl Ketone	4.052	5.03	21.5	50
Methyl Isobutyl Ketone	ND	ND	ND	50
Methyl-t-Butyl Ether	ND	ND	ND	50
Methylbromide	ND	ND	ND	50
Methylchloride	ND	ND	ND	50
Methylene chloride	ND	ND	ND	50
Styrene	ND	ND	ND	50
Tetrachloroethylene	39.534	39.33	0.594	50
Tetrahydrofuran	ND	ND	ND	50
Toluene	ND	ND	ND	50
Trichloroethylene	ND	ND	ND	50
Trichloromonofluoromethane (F11)	ND	ND	ND	50
Trichlorotrifluoroethane (F113)	ND	ND	ND	50
Vinyl Bromide	ND	ND	ND	50
Vinylchloride	ND	ND	ND	50

Fossa Ave VI Site - Nashua, NH

Laboratory Duplicate Results

Sample ID: AC14213

PARAMETER	SAMPLE RESULT ppbv	SAMPLE DUPLICATE RESULT ppbv	PRECISION RPD %	QC LIMITS
c-1,2-Dichloroethylene	ND	ND	ND	50
c-1,3-Dichloropropylene	ND	ND	ND	50
m/p-Xylenes	ND	ND	ND	50
n-Hexane	ND	ND	ND	50
o-Xylene	ND	ND	ND	50
t-1,2-Dichloroethylene	ND	ND	ND	50
t-1,3-Dichloropropylene	ND	ND	ND	50

Comments:

Weston/START
101 Billerica Ave.
N Billerica, MA

Site #: 550187NH

Contact Name: Tara LePage
Contact Phone:

No: 1-071024-124414-0006

Fossa Ave VI Site
Lab: NERL LSASD
Lab Phone: 617-618-8638

PN 24070014

[illegible]

Special Instructions: Please send sample results to OSC Abidine Quedraogo.

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Ann Onice (western smart)</i>	7/10/24 14/18	<i>Laura L. Hancock (ESAT)</i>	7/10/24 14/18	

US EPA REGION 1
SAMPLE RECEIPT CHECKLIST

PROJ #:24070014	SURVEY NAME: 9 Fossa Ave LOCATION: Nashua, NH	REC'D BY: Laura Glowacki (ESAT)	SITE ID: 01RX SUPERFUND: Y
RECEIPT DATE: 7/10/24			

WERE SAMPLES SHIPPED?	
TRACKING #:	
DATE/SENT:	
NO. Hand Delivered	<input checked="" type="checkbox"/>
COOLER TEMPERATURE UPON ARRIVAL	°C/NA
CHAIN OF CUSTODY PRESENT?	<input checked="" type="checkbox"/>
COMPLETE?	<input checked="" type="checkbox"/>
CUSTODY SEALS PRESENT ON COOLER?	<input checked="" type="checkbox"/>
SAMPLES?	<input checked="" type="checkbox"/>
WERE SAMPLE CONTAINERS INTACT?	<input checked="" type="checkbox"/>
WAS SAMPLE PRESERVATION DOCUMENTED?	<input checked="" type="checkbox"/>
COC Sample Container	N
APPROPRIATE SAMPLES VOLUME FOR REQUESTED ANALYSIS?	<input checked="" type="checkbox"/>
SAMPLES AND COC MATCH?	<input checked="" type="checkbox"/>
IF ANY PROBLEMS WAS PROJECT MANAGER NOTIFIED?	
BY WHOM?	
APPROPRIATE SAMPLE CONTAINERS?	<input checked="" type="checkbox"/>
SAMPLES WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>
ALL ANALYSIS SPECIFIED ON COC?	<input checked="" type="checkbox"/>
DATE/TIME OF COLLECTION ON COC	<input checked="" type="checkbox"/>
TURN-AROUND TIME: 4 weeks	

COMMENTS: Soil vapor samples 4 #SAIRTX