



Stantec Consulting Services Inc.

12075 Corporate Parkway Suite 200, Mequon WI 53092-2649

November 21, 2021

Attention: Mr. Joseph Martinez
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

Reference: June 2021 Vapor Intrusion Assessment; Whitefish Bay Cleaners Property, 419 West Silver Spring Drive, Glendale, WI; BRTS Activity #02-41-550821; Stantec Project #: 193707230

Dear Mr. Martinez,

This letter documents the Vapor Intrusion Assessment portion of work completed by Stantec Consulting Services Inc. (Stantec), during June 2021, of a historical tetrachloroethene (PCE) release at Whitefish Bay Cleaners, 419 West Silver Spring Drive, Glendale, Wisconsin (herein referred to as "the Site"). The methods used to conduct this vapor intrusion assessment are consistent with those described in the workplan and cost estimate – additional investigation letter dated August 21, 2019 (Stantec, 2019).

BACKGROUND INFORMATION

Whitefish Bay Cleaners, an active dry cleaner business, has operated at 419 West Silver Spring Drive, Glendale, Wisconsin (the Site) for more than 30 years. Dry cleaning businesses have continuously operated at the Site since the 1950s. Giles Engineering Associates, Incorporated (Giles) completed a Preliminary Site Assessment (PSA) at the Site during December 2007 and PCE was detected in soil and groundwater. Giles concluded that historical spillage and/or leakage of PCE associated with dry cleaning activities was the source of the release. Giles reported the results of the PSA to the Wisconsin Department of Natural Resources (WDNR) who subsequently requested a site investigation and appropriate remedial action be completed.

During November 2013, Stantec, on behalf of Whitefish Bay Cleaners, submitted a Site Investigation Workplan to the WDNR. During August 2014, Stantec oversaw the collection of sub-surface soil samples from boreholes B-1 through B-7 and installation of groundwater monitoring wells MW1 through MW4 and TW1 at the Site or in the adjacent public alleyway. During September 2014, Stantec collected groundwater samples from the wells. The Site layout and borehole and groundwater monitoring wells locations are shown on Figure 1.

PCE in soil and groundwater extended off-site to the south and west requiring additional investigation. During May 2016, Stantec provided the WDNR with the soil and groundwater sampling results and recommended installation of additional groundwater monitoring wells. During June 2016 the WDNR responded to Stantec's recommendations with additional suggestions related to future investigation. More specifically, the WDNR requested that samples be collected from the groundwater monitoring wells since the wells had not been sampled since 2014. In addition, the WDNR requested that a vapor intrusion assessment be conducted at the Site.

Therefore, during June 2016 Stantec collected samples from each groundwater monitoring well at the Site. In every well, the PCE concentrations in groundwater during June 2016 were less than the initial groundwater sampling event. Soil and groundwater sampling results indicated that released PCE has migrated off-site to the west and south and documented a south to southwest groundwater flow across the Site.

During July 2016, Stantec submitted a workplan to the WDNR for additional soil and groundwater investigation. The WDNR reviewed the workplan and requested revisions to the proposed soil and groundwater sample locations and the addition of a soil vapor assessment. As a result, Stantec submitted a revised workplan to the WDNR, dated August 21, 2019, which addressed the revisions to the proposed soil and groundwater sample locations and included a proposed soil vapor assessment at the Site.

Reference: Vapor Intrusion Assessment; Whitefish Bay Cleaners Property

In June 2021, Stantec completed the vapor intrusion assessment of the Site. The investigation included outdoor air, indoor air and sub-slab air sample collection at the following addresses:

- 419 West Silver Spring Drive, Glendale, WI (Site, commercial property)
- 429 West Silver Spring Drive, Glendale, WI (commercial property)
- 407 West Silver Spring Drive, Glendale, WI (commercial property)
- 5575 North Mohawk Avenue, Glendale, WI (residential property)

METHODS OF INVESTIGATION

The methods used to complete the vapor intrusion assessment are summarized below.

Landowner Access Request Process

Best faith efforts, as defined in RR-800 in Section 4.3, includes “several different approaches and attempts to contact property owners and occupants” (WDNR, 2018). Per the “Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin” document, ‘the WDNR expects at least two written attempts to gain access to a building’ (WDNR, 2018). Several best faith efforts to gain access and work cooperatively with the above-listed locations were made via telephone calls and emails on December 6, 2019, January 3, 2020, January 9, 2020, January 17, 2020, and January 24, 2020. Additionally, letters were sent to all occupants on January 24, 2020, and February 14, 2020. The WDNR and Wisconsin Department of Health Services also sent a letter to landowners on February 5, 2021 indicating that an investigation of the vapor intrusion exposure pathway is recommended. Stantec sent a follow-up letter to landowners on February 11, 2021 requesting access for sampling. See the Attachment A for an example letter with attachments from February 2021 and a copy of the Record of Conversation.

Indoor Air Sampling

On June 3 and 4, 2021, Stantec personnel collected indoor air samples at two commercial buildings and one residential home that provided Stantec access (429 W Silver Spring [sample ID 429-A], 407 W Silver Spring [sample ID 407-A], and 5575 N Mohawk Ave [sample ID 5575-A]). Stantec collected one indoor air sample at each location at the lowest floor of the structure. The 429 West Silver Spring property was slab-on-grade construction and did not have a basement, so the indoor air sample was collected from the ground level. Approximate sample locations are shown on Figure 1.

Each indoor air sample collection device (6-liter Summa canister with 24-hour flow controller for the residential building, and 6-liter Summa canister with 8-hour flow controller for the commercial buildings) was positioned at a height considered to represent the normal breathing zone (approximately 3 to 5 feet above the lowest floor of the structure). After the allotted sample collection time, the canisters were sealed and collected for shipment to the project laboratory. The project laboratory was instructed to analyze the air samples for PCE, trichloroethene (TCE), 1,1,1-Trichloroethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, and vinyl chloride using EPA Method TO-15.

Outdoor (ambient) Vapor Sampling

On June 3, 2021, Stantec collected an outdoor ambient air sample from the Site. The outdoor air sample was collected at an upwind location from the Site along the western exterior portion of the Site building. The sample was collected using a 6-liter Summa canister with 8-hour flow controller. After approximately 8 hours, the canister was sealed and collected for shipment to the project laboratory.

Sub-Slab Vapor Sampling

On June 3, 2021, Stantec personnel installed sub-slab vapor pins at two of the three commercial properties (429 W Silver Spring and 407 W Silver Spring), and the one residential home (5575 N Mohawk Ave) using a hammer drill (WDNR, 2014). A 5/8-inch diameter drill bit was used to fully penetrate the concrete floor and allow for VaporPin® installation. The VaporPin® was fitted with a stainless-steel sealable hose barb to allow for sample collection. Vapor point locations relative to site features and areas of concern are illustrated on Figure 1.

Reference: Vapor Intrusion Assessment; Whitefish Bay Cleaners Property

After vapor point installation, Stantec personnel performed two leak tests consisting of a “shut-in test” to measure if a leak exists between the connections of the sample probe and the sample container and a “water dam” to measure if a leak exists between the seal of the vapor point and concrete. After successful shut-in and water dam tests, Stantec personnel purged the vapor point of three well volumes. Following purging, Stantec personnel collected “grab” samples using a laboratory provided 6-liter Summa canister. The sample canisters were labeled and submitted under chain-of-custody procedures to Eurofins TestAmerica (South Burlington, Vermont).

Stantec personnel obtained meteorological data from the nearest National Weather Service station during the sub-slab sample collection time period. Collected data included the minimum and maximum temperature, barometric pressure, and precipitation.

On June 3 and 4, 2021 Stantec personnel collected sub-slab soil vapor samples the two commercial properties and one residential home (sub-slab vapor points 429-S, 407-S, and 5575-S as shown on Figure 1). Stantec completed a two-step method for quality control to ensure that sub-slab vapor samples are representative. Prior to collecting a sample for laboratory analysis, Stantec conducted quality control measures as described below when collecting samples from the sub-slab vapor points.

Step One – Shut-In Test

The shut-in test measured the airtightness of the fittings between the sample probe and the sample container. This process included the following steps:

1. A vacuum gage was connected to the sampling line between the soil vapor point and sample container (laboratory supplied Summa canister).
2. Valves to the soil vapor point and Summa canister were shut and air was removed from the sampling line using a hand-pump inducing a vacuum in the line of greater than 50 inches of water.
3. The vacuum reading was monitored for at least one minute to determine if vacuum remained steady. If the vacuum did not remain steady after one minute the connections were tightened and the shut-in test was repeated until a steady vacuum reading was observed.

Step Two – Water Dam Test

The water dam test is used to determine if the soil vapor point seal is preventing outside air from entering the soil vapor point. This process included the following steps:

1. A small enclosure (a short section of a 2-inch PVC pipe, for instance) was sealed to the floor around the sub-slab vapor probe and filled with water.
2. If the water placed in the casing maintains a constant level, the test confirms that no leaks are present in the vapor sample probe.

Stantec successfully completed the shut-in and water dam tests for 429-S, 407-S and 5575-S. The sub-slab points passed the water dam tests on the first attempt.

After successfully completing the quality control measures, Stantec collected sub-slab samples from 429-S, 407-S and 5575-S using 6-liter Summa canisters provided by Eurofins TestAmerica, each equipped with a 30-minute air flow controller. The soil vapor samples were shipped to Eurofins TestAmerica under chain-of-custody protocol for analysis of VOCs by U.S. EPA Method TO-15.

Evaluate Buried Utility Corridors

As requested by the WDNR, Stantec evaluated the locations of buried utilities that extend through or are near areas of PCE contamination. Stantec contacted the Village of Glendale to obtain utility maps and additional information regarding buried utilities. Buried laterals providing water and sanitary sewer services to the Site extend from mains in West Silver Spring Drive south to the northeast corner of the Site building. Buried laterals providing water and sewer service to residential homes south of the Site extend from mains in North Iroquois Avenue or North Mohawk Avenue. Buried natural gas laterals are present within the alley way adjoining the southern Site boundary and buried natural gas mains are present within the right-of-way adjoining the northern

Reference: Vapor Intrusion Assessment; Whitefish Bay Cleaners Property

Site boundary. A copy of the Glendale Utilities Web Map for the Site and adjacent properties is included in Attachment B.

RESULTS OF INVESTIGATION**VAPOR SAMPLING RESULTS**

Stantec compared the indoor air and sub-slab vapor analytical results to calculated screening levels for sub-slab vapor to indoor air in accordance with the guidelines presented in the WDNR's Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin dated December 2010 and updated January 2018 (WDNR, PUB-RR-800). The WDNR assigned vapor risk screening levels (VRSL) based on the United States Environmental Protection Agency (USEPA) Air Screening Levels. The USEPA provided updated regional screening level tables in April 2019. The April 2019 USEPA screening levels have been utilized for this evaluation.

A summary of the vapor probe analytical data is presented in Table 1. The analytical data were compared to the calculated residential indoor air/sub-slab VRSL, and the calculated commercial indoor air VRSL. PCE was detected in each vapor sample collected. Additionally, TCE was detected above laboratory detection limits in the ambient air sample as well as sample 429-S. There were no concentrations of PCE or TCE detected above applicable VRSLs except for the concentration of PCE in the ambient air sample collected at 419 W. Silver Spring Dr. PCE was detected at a concentration of 330 micrograms per cubic meter in the ambient air sample, which exceeded the outdoor worker air VRSL of 195 micrograms per cubic meter.

The laboratory analytical report for the June 2021 sampling event is included in Attachment C.

BURIED UTILITY CORRIDORS

Buried laterals providing water and sewer service to the Site extend from mains in West Silver Spring Drive south to the northeast corner of the Site building. No buried utilities are present within the alley way adjoining the southern Site boundary. Buried laterals providing water and sewer service to residential homes south of the Site extend from mains in North Iroquois Avenue or North Mohawk Avenue. The buried utilities present on or near the Site are shown on Figure 1. A copy of the Glendale Utilities Web Map for the Site and adjacent properties is included in Attachment C.

CONCLUSIONS AND RECOMMENDATIONS

PCE (solvent historically released) was detected above applicable VRSL in the outdoor air sample collected at adjacent to the Site building. PCE was detected at a concentration of 330 micrograms per cubic meter in the outdoor air sample, which exceeded the outdoor worker air VRSL of 195 micrograms per cubic meter. Although PCE was detected in each indoor air and subslab soil vapor samples, all concentrations were less than their applicable VRSL. Based upon the initial air sampling results, no further investigation of vapor intrusion pathways appears to be warranted at this time. Stantec is still scheduled to complete the remaining portions of the August 21, 2019, WDNR approved workplan (soil and groundwater investigation).

LIMITATIONS

The installation and sampling activities were performed in accordance with generally accepted practices of the profession for performing similar studies at the same time and in the same geographical area. Stantec observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec's observations, findings, and opinions must not be considered as scientific certainties, but only an opinion based on our professional judgment concerning the significance of the data gathered during the course of the investigation. Specifically, Stantec does not and cannot represent that the Site contains no hazardous or toxic materials or other latent condition beyond that observed by Stantec.



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Reference: Vapor Intrusion Assessment; Whitefish Bay Cleaners Property

Regards,

Stantec Consulting Services Inc.

Chris Hatfield, PG
Senior Hydrogeologist/Project Manager
Phone: (262) 643-9171
Fax: (262) 241-8222
Chris.Hatfield@stantec.com

Garrett Simpson, PG
Geologist
Phone: (317) 410-9228
Fax: (262) 241-8222
Garrett.Simpson@stantec.com

Attachments:

Figure 1 – Site Layout and Sample Locations
Table 1 – Vapor Laboratory Results Summary

Attachment A – Example Landowner Letter from February 2021 and Record of Conversation
Attachment C – Glendale Utilities Web Mapper
Attachment C – Laboratory Analytical Reports

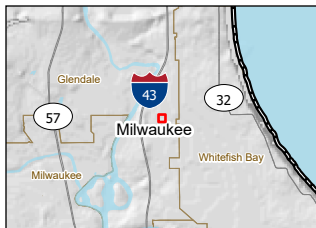
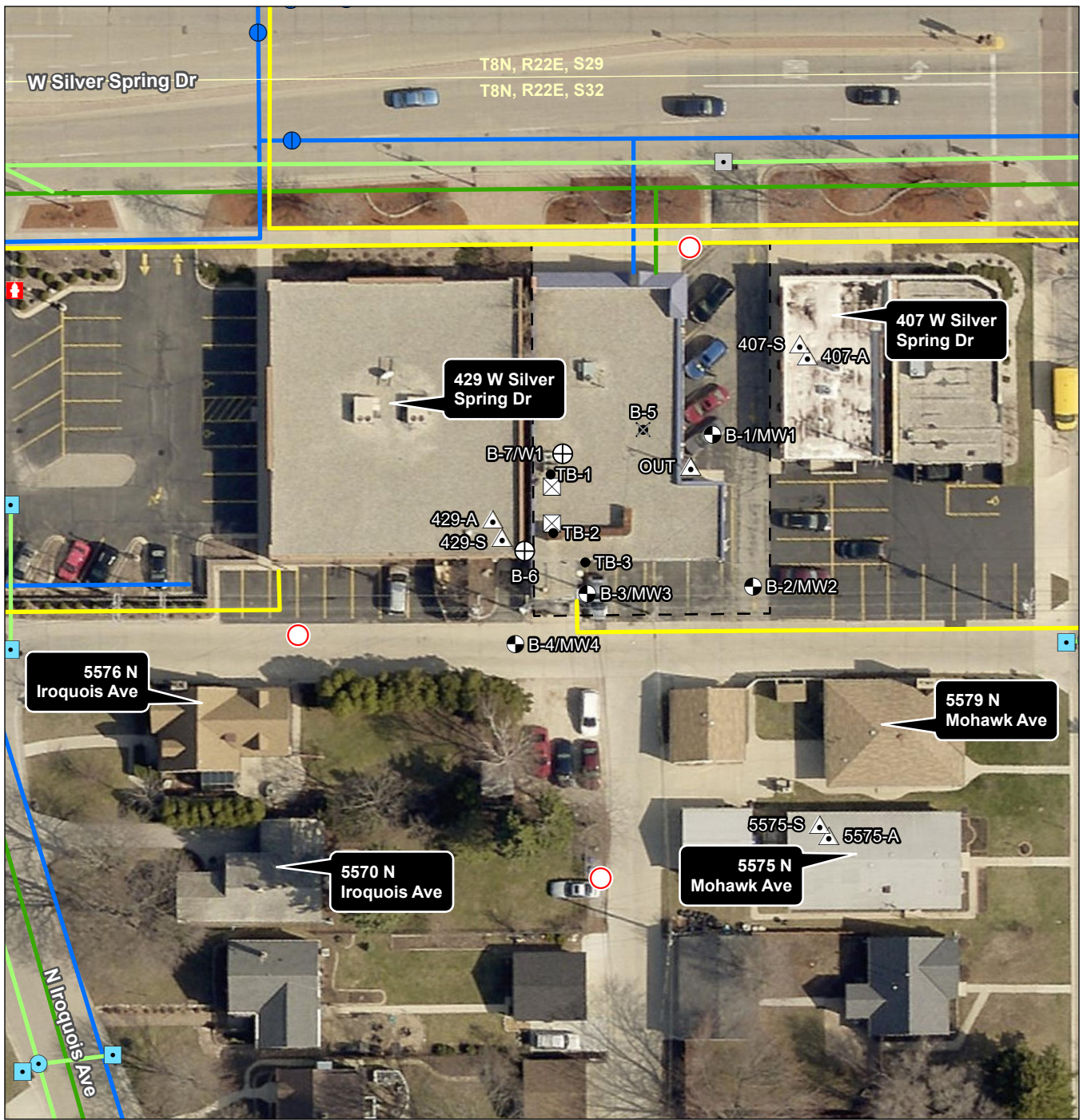
REFERENCES

Stantec Consulting Services, 2019 (August 21), "Workplan and Cost Estimate – Additional Investigation Whitefish Bay cleaners, 419 West Silver Spring Drive, Glendale, Wisconsin – WDNR BRRS #02-41-550821."

Wisconsin Department of Natural Resources, 2014 (July). "Sub-Slab Vapor Sampling Procedures, RR-986."

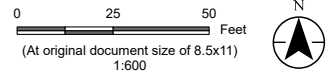
Wisconsin Department of Natural Resources, 2018 (January). "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin. Wis. stat. ch. 292; Wis. Admin. Code ch. NR 700, RR-800."

FIGURES



Notes
 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
 2. Data Sources: Esri, Stantec, USGS, NADS, Milwaukee County
 3. Background: Esri World Imagery

- Legend**
- Approximate Property Boundary
 - Borehole Location and Identification (Giles Engineering)
 - Borehole Location and Identification (Stantec)
 - Proposed Borehole and Groundwater Monitoring Well Location (Stantec)
 - Borehole in Basement Location and Identification (Stantec)
 - Dry Cleaning Machines
 - Groundwater Monitoring Well Location and Identification (Stantec)
 - Vapor Sampling Points
 - Gas Line
 - Sanitary Sewer Line
 - Storm Sewer
 - Water Line
- Water Structures**
- Water Valve
 - Fire Hydrant
- Storm Sewer Structures**
- Glendale Inlet
 - Glendale Manhole
 - Other Manhole



Project Location
 T8N, R22E, S32
 Glendale, Milwaukee County, WI

Prepared by
 JDS on 2021-10-21
 TR by DG on 2021-10-21
 IR by GS on 2021-10-21

Client/Project
 Whitefish Bay Cleaners
 Whitefish Bay Cleaners Investigation

193707230

Figure No.
 1

Title
 Site Layout and Sample Locations

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Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

TABLES

Table 1: Sub-Slab, Indoor, & Outdoor Air Quality Laboratory Results, Whitefish Bay Cleaners, 419 West Silver Spring Drive, Glendale, Wisconsin

Sample Point	Sample Address	Vacuum Testing of Sampling Fittings** (Pass/Fail)	Helium Shroud QA/QC Testing		Date Sampled	Date Analyzed	Sample Location	Sample Duration (hours)	Sample Duration (minutes)	Detected Volatile Organic Compounds (micrograms per cubic meter)					
			Helium Concentration Under Shroud (% He)	Helium Concentration in Sample (%)						1,1,1-Trichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
Residential VRSL (micrograms per cubic meter)							Sub-Slab Residential (AF = 0.03)	173,667	NSL	1,390	1,390	70	56		
							Indoor Residential Air (AF = 1)	5,210	NSL	42	42	2	2		
Small-Commercial / Indoor Worker VRSL (micrograms per cubic meter)							Sub-Slab Commercial (AF = 0.03)	730,000	NSL	5,833	5,833	292	930		
							Indoor Commercial Air (AF = 1)	21,900	NSL	175	175	9	28		
Outdoor Worker VRSL (micrograms per cubic meter)							Outdoor Air (AF = 1)	24,300	NSL	195	195	10	31		
OUT	419 W. Silver Spring Dr.	N/A	N/A	N/A	06/03/21	06/09/21	Outdoor Air	7	56	<0.21	<0.13	330	<0.35	0.14 J	<0.072
429-A	429 W. Silver Spring Dr.	N/A	N/A	N/A	06/03/21	06/08/21	Indoor Commercial Air	7	47	<0.21	<0.13	34	<0.35	<0.13	<0.072
429-S	429 W. Silver Spring Dr.	Pass	N/A	N/A	06/03/21	06/09/21	Commercial sub-slab	0	28	<1.3	<0.79	3100	<2.1	1.1 J	<0.43
407-A	407 W. Silver Spring Dr.	N/A	N/A	N/A	06/03/21	06/08/21	Indoor Commercial Air	7	47	<0.21	<0.13	71	<0.35	<0.13	<0.072
407-S	407 W. Silver Spring Dr.	Pass	26.0%	0%	06/03/21	06/10/21	Commercial sub-slab	0	23	<0.21	<0.13	69	<0.35	<0.13	<0.072
5575-A	5575 N. Mohawk Ave.	N/A	N/A	N/A	06/03-04/2021	06/10/21	Indoor Residential Air	23	45	<0.21	<0.13	3.3	<0.35	<0.13	<0.072
5575-S	5575 N. Mohawk Ave.	Pass	32.0%	0%	06/03/21	06/10/21	Residential sub-slab	0	35	<0.21	<0.13	11	<0.35	<0.13	<0.072

Note: Target Hazard Quotient (THQ) of 1 and Target Risk (TR) of 1E-05 per RR-800 (WDNR, January 2018)
 AF = attenuation factor
 NSL = no screening level assigned from USEPA Regional Screening Level (RSL) Table - November 2020
 VAL = vapor action level
 VRSL = vapor risk screening level
 <x = analyte was not detected at a concentration greater than "x"
 x = analyte exceeds applicable target air concentration
 "J" = analyte exceeds the limit of detection but is below the limit of quantification
 ** = a vacuum of greater than 5 inches of mercury was applied to the hoses and fittings used to collect each sample. A passing grade was given if no drop in vacuum was observed after at least 1 minute

N/A = Not applicable
 = Concentration exceeds residential sub-slab soil vapor VRSL
 = Concentration exceeds residential indoor air VRSL
 = Concentration exceeds commercial sub-slab soil vapor VRSL
 = Concentration exceeds commercial indoor air VRSL
 = Concentration exceeds outdoor worker air VRSL

All screening levels were determined based upon the guidance provided in the WDNR WI Vapor Quick Look-Up Table - Indoor Air Vapor Action Levels (WDNR, 2017) and Vapor Risk Screening Levels, (WDNR, November 2020). The VAL and VRSLs were determined from the USEPA Regional Screening Level (RSL) Table - May 2021 per WDNR Publication RR-800 - Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin (WDNR, January 2018).

ATTACHMENT A

Example Landowner Letter from February 2021 and Record of Conversation

Conversation Record



By: Erin Gross	CC: Chris Hatfield	
Project Name: Whitefish Bay Cleaners 419 W Silver Spring Dr	Date: October 2019 - present	Time: N/A
Spoke With: see below Title: Homeowners	Project No.: 193707230	
Organization:	Phone No.: see below	
Subject: Scheduling indoor air and sub-slab vapor sampling		

Items Discussed (see following pages):

Conversation Record

<p>Steinhafels 429 W Silver Spring Rd</p>	<p>Capital Ventures, LLC (owner) – (262) 436-4600 (store number)</p> <ul style="list-style-type: none">• Called and left a message with a sales representative at 12:00pm on 12/6/19<ul style="list-style-type: none">○ This location is a mattress only location with only 2 people staffing. The phone number above takes you to a basic directory for Steinhafels.○ Will try to get a direct phone number to the store/manager when they call back○ Got a call back from the store manager, Erik, on 12/6/19 at 2:15pm. His direct cell is (414) 322-0188. Discussed what the air sampling will entail, and he stated that most of the store is carpeted or has tile, so not sure where we can install sub-slab samples. Will have to get permission, either way, from the landlord (Integral Management Company). Gave me the phone number of the maintenance guy, Jim Nelson (414-431-9777).○ Asked for us to email him the information/questionnaire/info so he can forward on to his direct manager for approval as well.○ Follow-up email with attachments on 1/3/20• Called Integral Management Company, Jim Nelson, at 2:49pm on 12/6/19.<ul style="list-style-type: none">○ Spoke with Stephanie, Jim doesn't work with the company anymore. Gave her my cell phone and stated we need site access agreement prior to starting work. She said she will have someone call my cell back to hopefully sample within the next 2 weeks or so.○ Emailed propertymanagement@integrallc.com since no response was received from Integral Management Company prior○ Received a call from Michael Gral, (414) 271-7777, stating that they decline sampling on 1/9/2020○ Called Michael Gral on 1/17/20 to discuss further<ul style="list-style-type: none">▪ Still declining sampling• Letter sent from Wisconsin Department of Health Services (WDHS) on February 5, 2021• Letter sent February 11, 2021 with details regarding the sampling and requesting site access/sampling on their property• Received an email from Curtis Hedman, WDHS, on 2/23/21 indicating that Jennifer at Richter Realty and Investment will be reaching out to Stantec soon regarding future sampling<ul style="list-style-type: none">○ phone: (262) 789-2200○ Spoke with Curtis on the phone to clarify ownership/access. Michael Gral, Integral Management Company, forwarded the letter to Jennifer Pennington of Richter Realty and Investment. She will be the one to work with going forward.• Called and left voicemail with Jennifer Pennington on 2/24/2021 after receiving a voicemail from her.• Received a voicemail from Jennifer Pennington on 3/15/2021<ul style="list-style-type: none">○ jpennington@berke.com○ Building is now vacant, so access should be simplified• Emailed questionnaire and access agreement on 3/18/2021
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Conversation Record

The Pet Apothecary 407 W Silver Spring Dr	Jeff Langer – (414) 247-8633 <ul style="list-style-type: none">• Called and left a message with the sales associate on staff at 12:05pm on 12/6/19. She said they will call back my cell upon the store manager's return.• Emailed rx@petapothecary.com since no response was received after phone call• Received an email response from Jeff Langer on 1/8/20 with an attached Questionnaire. Stantec responded via email the same day asking if Jeff had any questions/concerns and to email or call my cell to discuss access and work moving forward. The phone number indicated in the Questionnaire was (414) 640-7246• Emailed Jeff Langer and called both the number above and the number noted in the Questionnaire. No response from phone calls. In the email, stated that I was responding to a voicemail he had left on 1/21/20. Stated that I have received the Questionnaire but will also need the attached access agreement and to discuss sampling location/dates that would work best. Asked the best way to get a hold of Jeff.• Letter sent January 24, 2020 with details regarding the sampling and requesting site access/sampling on their property<ul style="list-style-type: none">○ Site Access Agreement was signed by Jeff Langer and Charlie Mathers on February 7, 2020• Send updated access agreement with COVID-19 protocol on 3/18/2021
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Conversation Record

5576 N Iroquis Ave	<p>Scott Kalka & Minh Hoang – (414) 259-3621 and (414) 210-5654</p> <ul style="list-style-type: none">• Called and left a voicemail with (414) 259-3621 on 12/6/19 at 12:13pm<ul style="list-style-type: none">○ May not be the correct number because I think the voicemail said “Pamela”?○ Left a voicemail asking if they were the owner of the Property and asked for them to call my cell back○ Called again on 1/3/2020, and Pamela Parson and likely wrong number. Voicemail.• Called and left a voicemail with (414) 210-5654 on 12/6/19 at 12:14pm. No name in the voice message<ul style="list-style-type: none">○ Called 1/3/2020 and no response and left voicemail• Sent physical letters with WDNR attachments, self-addressed envelope, site access agreement, and questionnaires to Pet Apothecary and 4 residents on 1/24/2020• Letter sent January 24, 2020 and February 14, 2020 with details regarding the sampling and requesting site access/sampling on their property<ul style="list-style-type: none">○ No response• Letter sent from WDHS on February 5, 2021• Letter sent February 11, 2021 with details regarding the sampling and requesting site access/sampling on their property•
5570 N Iroquis Ave	<p>James Fontana – (414) 962-6088 OR (414) 732-0221</p> <ul style="list-style-type: none">• Left a voicemail with (414) 962-6088 at 12:20pm on 12/6/19. No name in voice message<ul style="list-style-type: none">○ Left a voicemail asking if they were the owner of the Property and asked for them to call my cell back○ Left voicemail on 1/3/2020• Left voicemail with (414) 732-0221 at 12:21pm on 12/6/19. No name in voice message.<ul style="list-style-type: none">○ Left a voicemail asking if they were the owner of the Property and asked for them to call my cell back○ Left voicemail on 1/3/2020• Sent physical letters with WDNR attachments, self-addressed envelope, site access agreement, and questionnaires to Pet Apothecary and 4 residents on 1/24/2020• Letter sent January 24, 2020 and February 14, 2020 with details regarding the sampling and requesting site access/sampling on their property<ul style="list-style-type: none">○ No response• Letter sent from WDHS on February 5, 2021• Letter sent February 11, 2021 with details regarding the sampling and requesting site access/sampling on their property•

Conversation Record

5579 N Mohawk Ave	<p>Karl Krumholz – (608) 338-9709 OR (734) 981-1538 OR (843) 552-8444</p> <ul style="list-style-type: none">• Called (608) 338-9709 at 12:23pm and spoke with Karl Krumholz about the project and potential scheduling (looking to sample within the next two weeks or so).<ul style="list-style-type: none">○ His email, to send the site access agreement, questionnaire, and info to is krumhka4@gmail.com○ Emailed the Site Access Agreement, Questionnaire, and WDNR info on 12/6/19○ Follow-up email with attachments on 1/3/20• Called on 1/17/20 to followup. No answer, left voicemail.• Sent physical letters with WDNR attachments, self-addressed envelope, site access agreement, and questionnaires to Pet Apothecary and 4 residents on 1/24/2020• Letter sent January 24, 2020 and February 14, 2020 with details regarding the sampling and requesting site access/sampling on their property<ul style="list-style-type: none">○ No response• Letter sent from WDHS on February 5, 2021• Letter sent February 11, 2021 with details regarding the sampling and requesting site access/sampling on their property•
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Conversation Record

5575 N Mohawk Ave	<p>Yuri & Catherine Gutich – (414) 963-1121 OR (414) 460-5200 OR (414) 228-9848 OR (414) 702-7878</p> <ul style="list-style-type: none">• Called (414) 963-1121 at 12:38pm on 12/6/19 and left a voicemail. No name associated with the voicemail box<ul style="list-style-type: none">○ Left a voicemail asking if they were the owner of the Property and asked for them to call my cell back○ Left a voicemail on 1/3/2020• Called (414) 460-5200 at 12:39pm on 12/6/19 and left a voicemail. No name associated with the voicemail box<ul style="list-style-type: none">○ Left a voicemail asking if they were the owner of the Property and asked for them to call my cell back○ Called on 1/3/2020 and got a hold of Catherine Gutlich!! Discussed what Whitefish Bay Cleaners is tasked to do and detailed the approach. A bit hesitant about sub-slab sampling and wants more information and to discuss with her husband. Discussed how Stantec is involved (3rd party consultant working for the RP, Whitefish Bay Cleaners) and discussed the reasoning why sub-slab is recommended on top of the indoor air sampling. Emailed information to cagutich@yahoo.com• Called on 1/17/20 to followup. No answer and left voicemail.• Sent physical letters with WDNR attachments, self-addressed envelope, site access agreement, and questionnaires to Pet Apothecary and 4 residents on 1/24/2020 • Called (414) 228-9848 at 12:41pm on 12/6/19. Phone is disconnected.• Called (414) 702-7878 at 12:42pm on 12/6/19 and left a voicemail. No name associated with the voicemail box.<ul style="list-style-type: none">○ Left a voicemail asking if they were the owner of the Property and asked for them to call my cell back• Letter sent January 24, 2020 and February 14, 2020 with details regarding the sampling and requesting site access/sampling on their property<ul style="list-style-type: none">○ No response• Letter sent from WDHS on February 5, 2021• Letter sent February 11, 2021 with details regarding the sampling and requesting site access/sampling on their property• Received a call/voicemail from Catherine on February 17, 2021 indicating is interested in sampling<ul style="list-style-type: none">○ Stantec sent an email on February 19, 2021 with questionnaire and indicating the resident's preferred sampling dates (March 29-April 2nd)• Emailed access agreement on 3/18/2021
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Stantec Consulting Services Inc.
12075 Corporate Parkway, Suite 200
Mequon WI 53092
Tel: (262) 241-4466
Fax: (262) 241-4901

February 11 2021

James Fontana
5570 N. Iroquois Ave.
Glendale, Wisconsin 53217-5048

**Reference: Request for Indoor Air and Sub-Slab Vapor Sampling, 5570 North Iroquois Avenue, Glendale, Wisconsin
Stantec Project No.: 193707230**

Dear resident

Stantec Consulting Services, Inc. (Stantec), on behalf of our client Whitefish Bay Cleaners located at 419 West Silver Spring Drive, Glendale, Wisconsin, is investigating soil and groundwater contamination resulting from a historical release of dry cleaner solvents at Whitefish Bay Cleaners. During investigation conducted to date, elevated levels of tetrachloroethene (PCE) and trichloroethene (TCE) have been detected in soil and groundwater. These contaminants belong to a class of chemicals known as chlorinated volatile organic compounds (CVOCs). Recent sampling has indicated that a plume of CVOC-contaminated groundwater has migrated off-site south and west of Whitefish Bay Cleaners.

You received a letter from the Wisconsin Department of Health Services (WDHS) dated February 5, 2021 indicating that an investigation of the vapor intrusion exposure pathway is recommended (see attached). Stantec will soon be evaluating nearby buildings to determine if the occupants of these buildings are at risk for exposure to CVOCs due to potential intrusion of CVOC vapors into the building. Enclosed are fact sheets explaining how vapor intrusion occurs, how testing for the presence of CVOC vapors is conducted, why testing is recommended, and how vapor intrusion will be addressed if found to be present.

We would like to evaluate your residence at 5570 Iroquois Avenue for vapor intrusion risks as part of planned additional investigation activities associated with the Whitefish Bay Cleaners that have been requested by the Wisconsin Department of Natural Resources (WDNR) and WDHS. As part of this process, representatives from Stantec would like to install a 5/8-inch diameter vapor monitoring point through the slab or basement floor and collect a sub-slab soil gas sample from the monitoring point. The vapor monitoring point installation and sample collection can be completed in approximately 1 hour. In addition, Stantec will collect a 24-hour indoor air sample. Both samples will be analyzed by a State of Wisconsin-certified laboratory for CVOCs. The sampling will be conducted at **no cost to you** and a summary of the analytical results will be provided to you. All sampling will be performed in accordance with the WDNR's "*Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin*" guidance document, which is available at <https://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>.

We desire to conduct the sampling during March 2021. We will require access to your building to install and sample the vapor monitoring point and at the beginning and end of the 24-hour indoor air sampling process. Please contact Erin Gross at Stantec via cell phone, (608) 628-6278, or email, erin.gross@stantec.com, no later than February 28, 2021 to discuss this matter further and arrange a sampling appointment. **This is the third attempt to arrange vapor/air sampling at your location.** Enclosed for your review is a Questionnaire that we request you to complete and return using the pre-addressed postage-paid envelope enclosed. We also request that the sub-slab vapor monitoring point remain in place until we are able to communicate the results to the WDNR for concurrence. Following



February 11, 2021
Page 2 of 2

Reference: 2nd Request for Indoor Air and Sub-Slab Sampling

concurrency, Stantec will return at a mutually agreed time and remove the sample point, grout the borehole, and fully seal the hole in the floor slab.

Please also note that it is important that we obtain access to your property for the required environmental investigation in order to protect public health and the environment. For more information about providing access to your property and more information regarding vapor intrusion, please visit the WDNR's website: <https://dnr.wi.gov/topic/Brownfields/Vapor.html>

Thank you for your cooperation and attention to this matter. If you have any questions about the vapor intrusion investigation or remedial activities underway at the Whitefish Bay Cleaners site, please contact Erin Gross via cell phone, (608) 628-6278, or email, erin.gross@stantec.com.

Regards,

STANTEC CONSULTING SERVICES INC.

A handwritten signature in blue ink that reads 'Erin Gross'.

Erin Gross, PG
Staff Geologist
Phone: (608) 628-6278
Fax: (262) 241-8222
Erin.Gross@Stantec.com

Enclosures: Review of VOC data indicating investigation of the vapor intrusion exposure pathway
What is Vapor Intrusion? fact sheet
Why Test for Vapor Intrusion? fact sheet
What to Expect During Vapor Intrusion Sampling fact sheet
Owner Questionnaire for Home Vapor Assessment

C: Whitefish Bay Cleaners, Charlie Mathers, (414) 332-5560
WDNR, Joseph J. Martinez, (414) 218-6042
WDHS, Curtis J. Hedman, Ph.D., (608) 266-1251

Tony Evers
Governor

Karen E. Timberlake
Secretary



State of Wisconsin
Department of Health Services

DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

February 5, 2021

James Fontana
5570 North Iroquois Avenue
Glendale, WI 53217

Re: Review of VOC data indicating investigation of the vapor intrusion exposure pathway for 5570 North Iroquois Avenue in Glendale, Wisconsin: WDNR BRRTS Number 02-41-550821

Dear Mr. Fontana:

I was recently asked by Wisconsin Department of Natural Resources (WI DNR) staff to review laboratory results for volatile organic compounds (VOCs) related to a historical chlorinated compound releases that were identified nearby the property located at 5570 North Iroquois Avenue in Glendale, Wisconsin.

These results indicate that chlorinated (CVOC) compound contaminated soil and groundwater are present within close proximity to foundation for the home at this address. The concentrations detected for these compounds exceed screening levels that indicate a vapor intrusion exposure pathway investigation should take place. Chlorinated chemicals detected include 1,2-dichloroethene (DCE), trichloroethene (TCE), and tetrachloroethene (PCE).

The chlorinated chemicals listed above can produce adverse health effects when vapor intrusion exposures occur. TCE exposure has been associated with developmental effects, including heart defects, in animal and human epidemiological studies. These effects can occur in as little as several weeks of exposure during a time when a woman may not yet know she is pregnant. Long term exposures to TCE and PCE are all associated with symptoms in many systems and organs (nervous, immune, liver, kidney, lung) as well as a variety of cancers.

As a result of the soil and groundwater results observed and the human health concerns associated with exposure to chlorinated VOCs in air by vapor intrusion described above, the Wisconsin Department of Health Services (WI DHS) recommends investigation of the potential vapor intrusion exposure pathway occur for CVOCs at 5570 North Iroquois Avenue, and the prompt interruption of this exposure pathway if it is determined to exist to protect the occupants of this dwelling.

Please reach out to me at (608) 266-6677, or curtis.hedman@wisconsin.gov if you have any comments or questions about this letter and its recommendations.

Sincerely,

A handwritten signature in cursive script that reads "Curtis J. Hedman".

Curtis J. Hedman, Ph.D., Toxicologist, WI DHS

Cc: Joseph Martinez, Hydrogeologist, WI DNR
Christine Cordova, Public Health Nurse, North Shore Health Department

What is Vapor Intrusion?



Chemicals used in commercial or industrial activities – dry cleaning chemicals, chemical degreasers and petroleum products such as gasoline – are sometimes spilled and leak into nearby soil or groundwater. When this happens, these chemicals may release gases or vapors, which travel from the contaminated groundwater or soil and move into nearby homes or businesses. This is called vapor intrusion.

The process when chemical vapors from contaminated soil or groundwater enter a home or other structure is called vapor intrusion.

Why are these chemical vapors a problem?

The chemicals that cause vapor intrusion are known as volatile organic compounds, or VOCs. Even when spilled into soil or water, these chemicals easily evaporate. They don't cause human health problems when they evaporate into the outside air, but when their vapors move into homes or businesses, they may cause long-term health problems for the people who live or work in those buildings. These vapors are usually odorless and colorless and undetectable without special testing equipment.

Why is vapor intrusion a concern?

Exposure to some chemical gases or vapors can cause an increased risk of adverse health effects. Whether or not a person experiences any health effects depends on several factors, including the amount and length of exposure, the toxicity of the chemical, and the individual's sensitivity to the chemical. When harmful chemical vapor intrusion is the result of environmental contamination, the Wisconsin Department of Natural Resources (DNR) requires that steps be taken to reduce or eliminate exposures which could be harmful to human health.

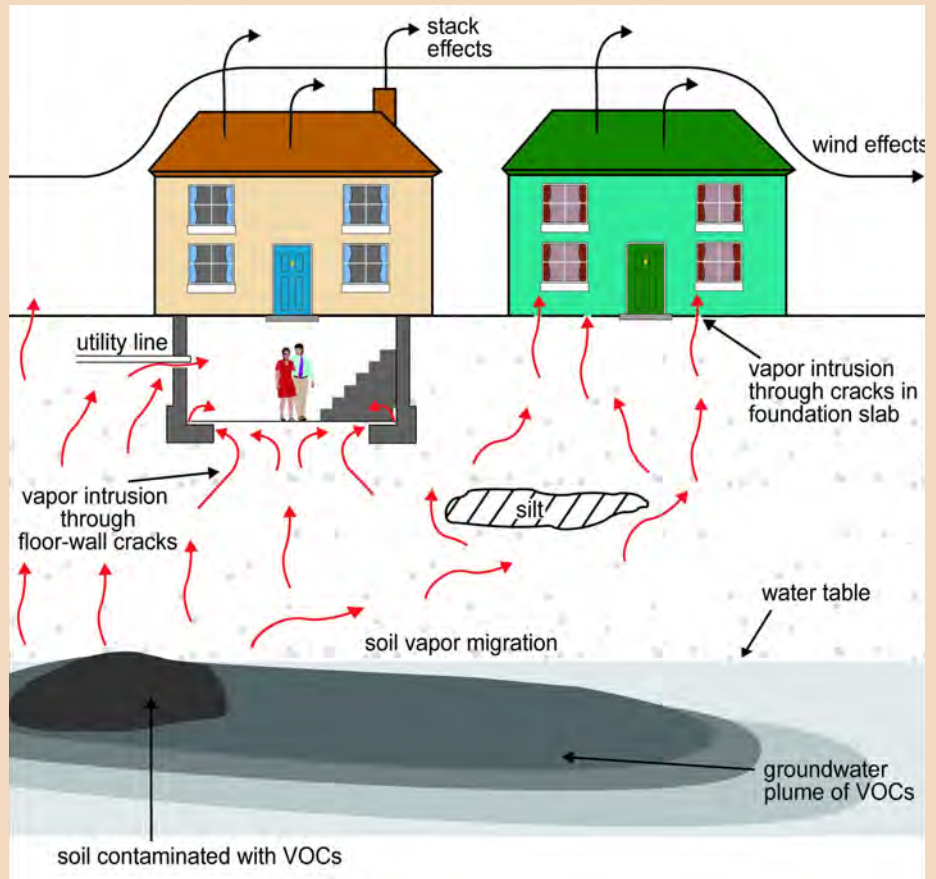
What should I expect if vapor intrusion is suspected near my home or business?

For businesses or other locations where VOC contamination has been found, the DNR requires that the potential for vapor intrusion be investigated. If you live near a site being cleaned up, you may be contacted by the site owner or others working on the cleanup. Your cooperation and consent will be requested before any testing or sampling is conducted on your property. Ask the person contacting you any questions you have about the work being done, or contact the DNR for more information (see DNR contact information on reverse). For more information about testing for vapor intrusion, see DNR-Pub-RR-954, "What to Expect During Vapor Intrusion Sampling."



How Vapors Enter a Building

If you live near a commercial or industrial facility or landfill where VOCs have entered either the soil or groundwater, there may be a potential for those chemicals to travel as vapors into your home or business. Vapors can enter buildings in various ways, including through cracks in the foundation and openings for utility lines. Building ventilation and weather can influence the extent of vapor intrusion.



Adapted from U.S. Environmental Protection Agency (EPA) graphic.
www.epa.gov/oswer/vaporintrusion/basic.html

Where can I find more information?

Health and vapor-related information can be found at the Wisconsin Department of Health Services (DHS) website at dhs.wisconsin.gov, search “Vapor.” For other health-related questions, please contact your local health department: www.dhs.wisconsin.gov/localhealth.

For more DNR information, please visit the DNR’s Remediation and Redevelopment (RR) Program’s Vapor Intrusion page at dnr.wi.gov/topic/Brownfields/Vapor.html.

Additional information can be obtained through the DNR field office in your region. To find the correct office, visit the RR Program Staff Contacts page at dnr.wi.gov/topic/Brownfields/Contact.html or call the RR Program at (608) 266-2111.

This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions. The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240. This publication is available in alternative format upon request. Please call 608-267-3543 for more information.

Why Test for Vapor Intrusion?



Vapor intrusion is likely an unfamiliar term to you, and hearing that your property should be tested for possible chemical vapor intrusion may cause you some concern. That is understandable, and this information sheet is designed to answer basic questions many people have. Please refer to DNR PUB-RR-892, “What is Vapor Intrusion?” for a summary discussion of the term “vapor intrusion.”

Most cases of vapor intrusion will pose no immediate threat to your health and safety. However, when other neighborhood properties are contaminated, it is wise to get your home or building tested to determine if there is any cause for concern. If potentially harmful chemical vapors are detected inside your home or building, the Department of Natural Resources (DNR), working in collaboration with other health and environmental professionals, will help you come up with a solution to protect you and your family.

Please consider the following factors when deciding whether to allow access for sampling:

Peace of mind

If there's a chance that chemical vapor or soil gas is seeping into your home or business, testing can determine whether it really is and to what extent. If testing reveals a problem, then steps can be taken to resolve it, making the indoor air you breathe safer for you and your family. Like radon gas, vapors from nearby soil or groundwater contamination can be diverted from beneath your home or office building and safely expelled into the outdoors, thus improving air quality inside your home or building.

The goal of sampling a residence or business is to eliminate as many of the unknowns as possible and safely address any concerns.

Who pays for testing?

You didn't cause this problem, so you don't have to pay for testing just as long as you allow reasonable and timely access to have testing done. The cost of sampling at potentially impacted residences or workplaces, like yours, is covered by the responsible party (the person or business legally obligated to investigate and clean up the contamination). In some cases, it's paid for directly by DNR, the Department of Health Services (DHS), or some other agency. Vapor sampling will be performed by a professional, and samples will be sent to a specialized lab for analysis.

Trained professionals and experts oversee the process

Multiple state and local agencies often work together to determine if vapor intrusion is a potential health risk in an area. The DNR, DHS, local health officials, the responsible party and environmental consultants are working together to ensure that quality samples are taken and that all results are given extensive review. It is important to gather the information in order to adequately understand if or where there may be a risk of vapor intrusion in your neighborhood.

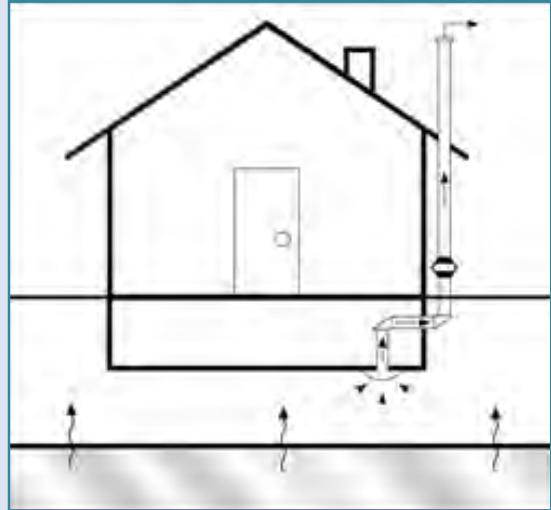


A simple, cost effective solution exists

If vapor intrusion is a problem in a house or building, it can generally be solved by installing a vapor mitigation system. These sub-slab depressurizing systems are similar to those used to eliminate radon gas underneath homes, and have been used for years in a safe and effective manner. If the source of the vapor is tied to a responsible party, they will often pay to have a system installed at your home. The annual upkeep and operation of a typical system is generally less than \$100 per year, mostly for electricity. These annual costs are typically the responsibility of the homeowner.

How will I know if the vapors have been eliminated?

After a vapor mitigation system is installed, follow-up testing of indoor air typically takes place three to six months later. The systems are usually considered permanent fixtures of the building. In cases where the source of the vapor is completely eliminated, the systems should no longer be needed.



If potentially harmful chemical vapor intrusion is detected in a home or business, the most common solution is to install a sub-slab depressurization system. This system captures and redirects soil vapors from below the building foundation before they enter the indoor air. Vapors are vented outside of the building where they disperse into the air and are rendered harmless.

Sub-slab depressurization systems also prevent radon from entering homes, which is an added health benefit in radon-prone areas.

Where can I find more information?

Health and vapor-related information can be found at the Wisconsin Department of Health Services (DHS) website at dhs.wisconsin.gov, search “Vapor.” For other health-related questions, please contact your local health department: www.dhs.wisconsin.gov/localhealth.

For more DNR information, please visit the DNR’s Remediation and Redevelopment (RR) Program’s Vapor Intrusion page at dnr.wi.gov/topic/Brownfields/Vapor.html.

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What to Expect During Vapor Intrusion Sampling



The sampling procedure for vapor intrusion is performed by health and environmental professionals. It involves drilling one or more small holes into the basement or lowest level of your building, collecting a vapor sample from those holes - also called ports - and then sending the sample to a specialized lab for analysis. This is called sub-slab sampling. Sampling professionals try to minimize any inconveniences to you by informing you up front on what to expect and working with your schedule on the days of sampling.

Vapor sampling provides information about the extent of potential contamination in your neighborhood.

Should I be on site for the sampling?

It's up to you. Sampling professionals will need to be let in to install the testing equipment and collect the samples. The arrangements you make are completely dependent on your availability and comfort level with others on your property.

How many times will sampling professionals enter my property, and how is sampling done?

In general, you should plan on two or three visits over two or three days. While the actual sampling procedure and schedule may vary, the following provides a typical approach:

Day 1: The first day includes locating suitable locations for port installation, then drilling and installing the ports. This usually takes about an hour or two.

Day 2: The second day involves attaching the collection canister to the port to begin collecting the samples. A 24-hour indoor air sampling kit may also be set up. This visit will also take an hour or two.

Day 3: The third day is a shorter visit to gather all of the sampling equipment and seal off the ports. Sometimes the port site is left in place in case samples may need to be collected in the future.

Why not take indoor air samples instead of sub-slab samples?

Indoor air quality often changes from day to day, creating misleading assumptions about long-term indoor air quality. Indoor air quality may be affected by vapors given off by household or commercial products including paints, glues, fuels, cleaners, cigarette smoke, aerosol sprays, new carpeting or furniture. Also, any outdoor air that enters the inside of your house may also contain vapors which can alter test results. By itself, indoor air testing will not necessarily confirm that the vapors in the indoor air are entering a building from underground sources. However, indoor air samples are usually collected at the same time as the sub-slab samples for comparison purposes.



What if there is a crawl space instead of a basement?

If there is a crawl space or a basement with a dirt floor, it is not possible to install a port. In these cases, a sample of air is collected from the crawl space or basement over a 24 hour period. Sometimes a port can be installed in the side wall of the foundation.

Who pays for testing, and when will I get the results?

In many cases, the responsible party (the person or business legally obligated to investigate and clean up the environmental contamination) pays for the testing. The responsible party may also pay for the installation of a mitigation system if it is necessary. Sometimes, other parties such as DNR or the Dept. of Health may pay for testing. As long as the property owner provides reasonable and timely access for testing, rarely would they be responsible for the cost.

The laboratory results are usually available in two to four weeks and will be shared with you through a state or local health agency, the Wisconsin DNR, the responsible party or a hired consultant. An explanation of the findings and additional steps to be taken, if any, will also be provided.



A sub-slab vapor sampling system is usually in place for a day or two during the sampling process. The metal canisters (foreground) collect the vapor sample from the port (smaller canister in back of photo). The same canisters can be used to collect indoor air samples.

Where can I find more information?

Health and vapor-related information can be found at the Wisconsin Department of Health Services (DHS) website at dhs.wisconsin.gov, search “Vapor.” For other health-related questions, please contact your local health department: www.dhs.wisconsin.gov/localhealth.

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OWNER QUESTIONNAIRE FOR HOME VAPOR ASSESSMENT

Whitefish Bay Cleaners

Glendale, Wisconsin

Please complete this questionnaire to the best of your ability. Upon completion of the questionnaire, please return the form to erin.gross@stantec.com or mail to:

Stantec
Attn: Erin Gross
12075 Corporate Parkway, Suite 200
Mequon, WI 53092-2649

Should you have questions while completing this questionnaire, please contact Erin Gross of Stantec at (608) 628-6278. Thank you.

CONTACT INFORMATION

PROPERTY OWNER:

Name: _____ Address: _____

City _____ State: _____ Zip code: _____ Phone # _____

TENANTS:

Name: _____ Address: _____

City _____ State: _____ Zip code: _____ Phone # _____

PROPERTY INFORMATION/QUESTIONS

1) What are the best days to sample indoor air and sub-slab soil vapor? Indoor air will involve Stantec personnel entering your house/building in the morning to set up the sample containers. The sample containers will be left in place for approximately 8 hours at which time Stantec personnel will return to your property to retrieve sampling equipment.

2) Where is the best location to install a temporary sub-slab vapor point? The sample point must be installed through the basement floor slab (or through ground floor slab, if no basement if present). Note, the sample point will be removed, the hole grouted, and the hole in the concrete fully sealed upon completion of sampling and WDNR approval of the completed sample process and test results. _____

3) Do you currently have clothing in your residence/building (in particular your basement) that has been dry cleaned?

If not, when was the last time you had dry cleaned clothing in your basement, residence, or building?

4) Do you currently store mothballs or any other chemicals (i.e. paint, solvents, stains, etc.) in your basement?

If not, when was the last time you stored mothballs or other chemicals in your basement?

5) Do you or someone who resides in your home, work at a dry-cleaning business?

SIGNATURE

Signature of Person Completing Form: _____

Printed Name of Person Completing Form: _____

Date: _____

Affiliation with the Property: _____

Years Affiliated with Property: _____

Years You Owned the Property (if applicable): _____

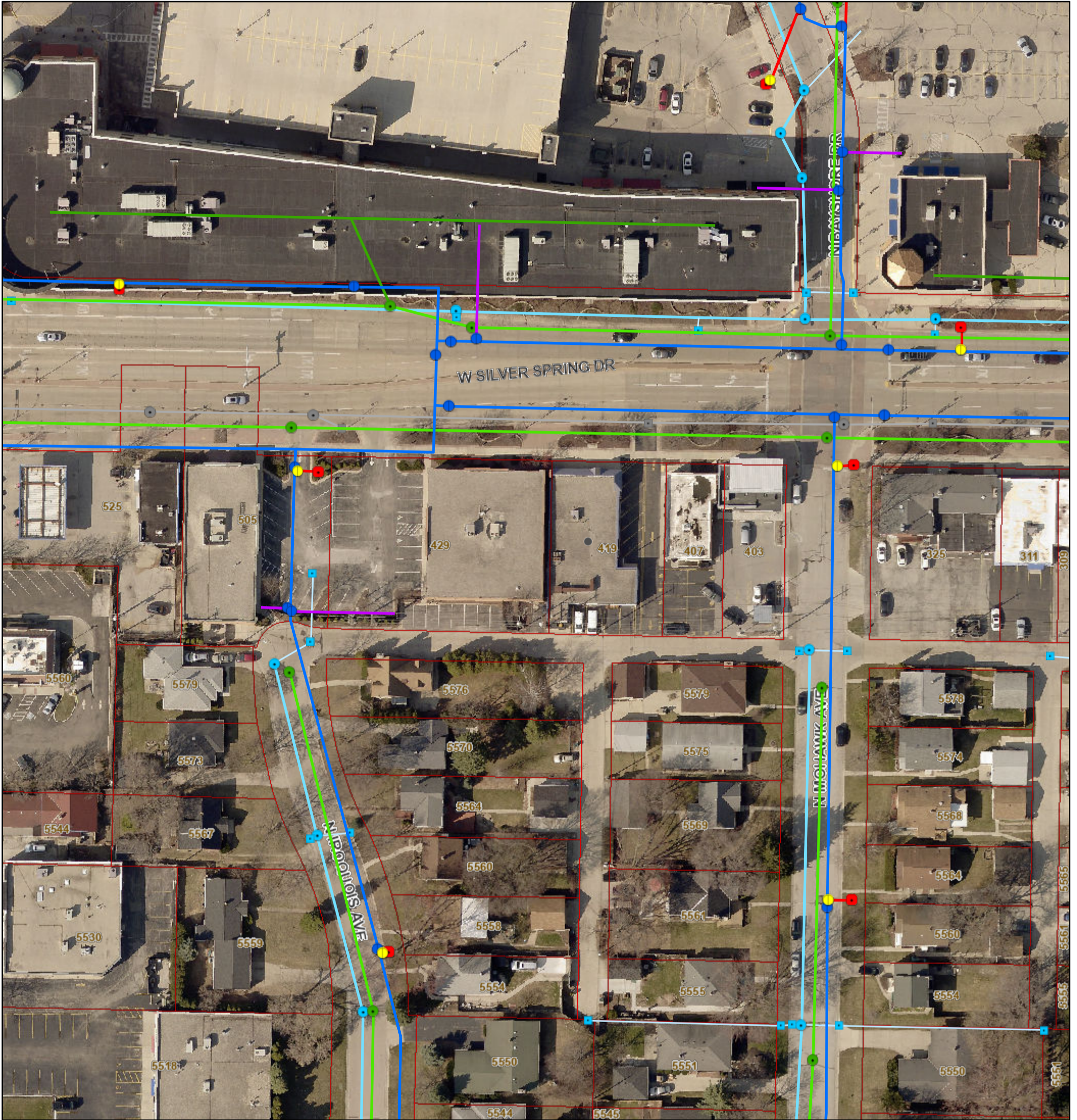
Years You Operated at the Property (if applicable): _____



ATTACHMENT B

Glendale Utilities Web Mapper

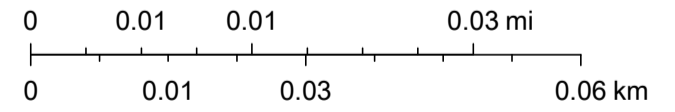
Glendale Utilities Web Map



9/3/2021, 9:40:02 AM

1:1,128

- | | | |
|-----------------------|---------------------------|-----------------------------------|
| Municipal Boundaries | Sanitary Sewer Structures | Storm Sewer Main |
| Water Valve | Glendale Manhole | Glendale Main |
| Fire Hydrant | Sanitary Sewer Main | Glendale Inlet Lead |
| Hydrant Valve | Glendale Main | Other |
| Water Main | Glendale Lateral | Scale 0 Street Labels |
| Glendale Hydrant Lead | Storm Sewer Structures | Parcels with Property Information |
| Glendale Branch | Glendale Manhole | 2020 Ortho |
| | Glendale Inlet | Red: Band_1 |
| | Other Manhole | Green: Band_2 |
| | Other Inlet | Blue: Band_3 |



Milwaukee County GIS & Land Information, County of Milwaukee, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Milwaukee County Land Information Office

ATTACHMENT C

Laboratory Analytical Reports

ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-58808-1

Client Project/Site: Whitefish Bay, Glendale, WI 193707230

For:

Stantec Consulting Corp.
12075 Corporate Pkwy, Suite 200
Mequon, Wisconsin 53092

Attn: Erin Gross



Authorized for release by:
6/10/2021 8:58:37 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Job ID: 200-58808-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

Job Narrative
200-58808-1

Comments

No additional comments.

Receipt

The samples were received on 6/8/2021 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Receipt Exceptions

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: Sample 6. The associated flow controller was evaluated and was found to be within the acceptable flow range as compared to the original set flow rate.

Air Toxics

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

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Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: OUT

Lab Sample ID: 200-58808-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	46	E	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.025	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene - DL	49		0.40	0.054	ppb v/v	2		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	310	E	1.4	0.18	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.14	J	1.1	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene - DL	330		2.7	0.37	ug/m3	2		TO-15	Total/NA

Client Sample ID: 429-A

Lab Sample ID: 200-58808-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.9		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	34		1.4	0.18	ug/m3	1		TO-15	Total/NA

Client Sample ID: 407-A

Lab Sample ID: 200-58808-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	71		1.4	0.18	ug/m3	1		TO-15	Total/NA

Client Sample ID: 429-S

Lab Sample ID: 200-58808-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	420	E	1.2	0.16	ppb v/v	6		TO-15	Total/NA
Trichloroethene	0.20	J	1.2	0.14	ppb v/v	6		TO-15	Total/NA
Tetrachloroethene - DL	450		6.1	0.82	ppb v/v	30.4		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2800	E	8.1	1.1	ug/m3	6		TO-15	Total/NA
Trichloroethene	1.1	J	6.4	0.77	ug/m3	6		TO-15	Total/NA
Tetrachloroethene - DL	3100		41	5.6	ug/m3	30.4		TO-15	Total/NA

Client Sample ID: 407-S

Lab Sample ID: 200-58808-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	69		1.4	0.18	ug/m3	1		TO-15	Total/NA

Client Sample ID: 5575-A

Lab Sample ID: 200-58808-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.48		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.3		1.4	0.18	ug/m3	1		TO-15	Total/NA

Client Sample ID: 5575-S

Lab Sample ID: 200-58808-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.7		0.20	0.027	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: 5575-S (Continued)

Lab Sample ID: 200-58808-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.4	0.18	ug/m3	1		TO-15	Total/NA

- 1
- 2
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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: OUT

Lab Sample ID: 200-58808-1

Date Collected: 06/03/21 16:23

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 20:27	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 20:27	1
Tetrachloroethene	46	E	0.20	0.027	ppb v/v			06/08/21 20:27	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 20:27	1
Trichloroethene	0.025	J	0.20	0.024	ppb v/v			06/08/21 20:27	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 20:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 20:27	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 20:27	1
Tetrachloroethene	310	E	1.4	0.18	ug/m3			06/08/21 20:27	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 20:27	1
Trichloroethene	0.14	J	1.1	0.13	ug/m3			06/08/21 20:27	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.078		0.40	0.078	ppb v/v			06/09/21 21:36	2
cis-1,2-Dichloroethene	<0.066		0.40	0.066	ppb v/v			06/09/21 21:36	2
Tetrachloroethene	49		0.40	0.054	ppb v/v			06/09/21 21:36	2
trans-1,2-Dichloroethene	<0.18		0.40	0.18	ppb v/v			06/09/21 21:36	2
Trichloroethene	<0.048		0.40	0.048	ppb v/v			06/09/21 21:36	2
Vinyl chloride	<0.056		0.40	0.056	ppb v/v			06/09/21 21:36	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.43		2.2	0.43	ug/m3			06/09/21 21:36	2
cis-1,2-Dichloroethene	<0.26		1.6	0.26	ug/m3			06/09/21 21:36	2
Tetrachloroethene	330		2.7	0.37	ug/m3			06/09/21 21:36	2
trans-1,2-Dichloroethene	<0.70		1.6	0.70	ug/m3			06/09/21 21:36	2
Trichloroethene	<0.26		2.1	0.26	ug/m3			06/09/21 21:36	2
Vinyl chloride	<0.14		1.0	0.14	ug/m3			06/09/21 21:36	2

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: 429-A

Lab Sample ID: 200-58808-2

Date Collected: 06/03/21 16:25

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 21:26	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 21:26	1
Tetrachloroethene	4.9		0.20	0.027	ppb v/v			06/08/21 21:26	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 21:26	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/08/21 21:26	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 21:26	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 21:26	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 21:26	1
Tetrachloroethene	34		1.4	0.18	ug/m3			06/08/21 21:26	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 21:26	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/08/21 21:26	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 21:26	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: 407-A

Lab Sample ID: 200-58808-3

Date Collected: 06/03/21 16:31

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 22:25	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 22:25	1
Tetrachloroethene	10		0.20	0.027	ppb v/v			06/08/21 22:25	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 22:25	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/08/21 22:25	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 22:25	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 22:25	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 22:25	1
Tetrachloroethene	71		1.4	0.18	ug/m3			06/08/21 22:25	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 22:25	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/08/21 22:25	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 22:25	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: 429-S

Lab Sample ID: 200-58808-4

Date Collected: 06/03/21 10:38

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.23		1.2	0.23	ppb v/v			06/09/21 22:29	6
cis-1,2-Dichloroethene	<0.20		1.2	0.20	ppb v/v			06/09/21 22:29	6
Tetrachloroethene	420	E	1.2	0.16	ppb v/v			06/09/21 22:29	6
trans-1,2-Dichloroethene	<0.53		1.2	0.53	ppb v/v			06/09/21 22:29	6
Trichloroethene	0.20	J	1.2	0.14	ppb v/v			06/09/21 22:29	6
Vinyl chloride	<0.17		1.2	0.17	ppb v/v			06/09/21 22:29	6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.3		6.5	1.3	ug/m3			06/09/21 22:29	6
cis-1,2-Dichloroethene	<0.79		4.8	0.79	ug/m3			06/09/21 22:29	6
Tetrachloroethene	2800	E	8.1	1.1	ug/m3			06/09/21 22:29	6
trans-1,2-Dichloroethene	<2.1		4.8	2.1	ug/m3			06/09/21 22:29	6
Trichloroethene	1.1	J	6.4	0.77	ug/m3			06/09/21 22:29	6
Vinyl chloride	<0.43		3.1	0.43	ug/m3			06/09/21 22:29	6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.2		6.1	1.2	ppb v/v			06/09/21 23:23	30.4
cis-1,2-Dichloroethene	<1.0		6.1	1.0	ppb v/v			06/09/21 23:23	30.4
Tetrachloroethene	450		6.1	0.82	ppb v/v			06/09/21 23:23	30.4
trans-1,2-Dichloroethene	<2.7		6.1	2.7	ppb v/v			06/09/21 23:23	30.4
Trichloroethene	<0.73		6.1	0.73	ppb v/v			06/09/21 23:23	30.4
Vinyl chloride	<0.85		6.1	0.85	ppb v/v			06/09/21 23:23	30.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.5		33	6.5	ug/m3			06/09/21 23:23	30.4
cis-1,2-Dichloroethene	<4.0		24	4.0	ug/m3			06/09/21 23:23	30.4
Tetrachloroethene	3100		41	5.6	ug/m3			06/09/21 23:23	30.4
trans-1,2-Dichloroethene	<11		24	11	ug/m3			06/09/21 23:23	30.4
Trichloroethene	<3.9		33	3.9	ug/m3			06/09/21 23:23	30.4
Vinyl chloride	<2.2		16	2.2	ug/m3			06/09/21 23:23	30.4

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: 407-S

Lab Sample ID: 200-58808-5

Date Collected: 06/03/21 11:50

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/10/21 00:16	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/10/21 00:16	1
Tetrachloroethene	10		0.20	0.027	ppb v/v			06/10/21 00:16	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/10/21 00:16	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/10/21 00:16	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/10/21 00:16	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/10/21 00:16	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/10/21 00:16	1
Tetrachloroethene	69		1.4	0.18	ug/m3			06/10/21 00:16	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/10/21 00:16	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/10/21 00:16	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/10/21 00:16	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: 5575-A

Lab Sample ID: 200-58808-6

Date Collected: 06/04/21 11:52

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/10/21 01:09	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/10/21 01:09	1
Tetrachloroethene	0.48		0.20	0.027	ppb v/v			06/10/21 01:09	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/10/21 01:09	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/10/21 01:09	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/10/21 01:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/10/21 01:09	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/10/21 01:09	1
Tetrachloroethene	3.3		1.4	0.18	ug/m3			06/10/21 01:09	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/10/21 01:09	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/10/21 01:09	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/10/21 01:09	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: 5575-S

Lab Sample ID: 200-58808-7

Date Collected: 06/03/21 13:00

Matrix: Air

Date Received: 06/08/21 10:45

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/10/21 02:02	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/10/21 02:02	1
Tetrachloroethene	1.7		0.20	0.027	ppb v/v			06/10/21 02:02	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/10/21 02:02	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/10/21 02:02	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/10/21 02:02	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/10/21 02:02	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/10/21 02:02	1
Tetrachloroethene	11		1.4	0.18	ug/m3			06/10/21 02:02	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/10/21 02:02	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/10/21 02:02	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/10/21 02:02	1

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

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

Lab Sample ID: MB 200-167671/4
Matrix: Air
Analysis Batch: 167671

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/08/21 09:48	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/08/21 09:48	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			06/08/21 09:48	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/08/21 09:48	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/08/21 09:48	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/08/21 09:48	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/08/21 09:48	1
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/08/21 09:48	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			06/08/21 09:48	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/08/21 09:48	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/08/21 09:48	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/08/21 09:48	1

Lab Sample ID: LCS 200-167671/3
Matrix: Air
Analysis Batch: 167671

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.3	8.72		ppb v/v		85	72 - 127
cis-1,2-Dichloroethene	10.4	7.91		ppb v/v		76	72 - 121
Tetrachloroethene	10.5	8.67		ppb v/v		83	70 - 125
trans-1,2-Dichloroethene	10.3	9.29		ppb v/v		90	69 - 137
Trichloroethene	10.3	8.45		ppb v/v		82	73 - 122
Vinyl chloride	9.99	9.89		ppb v/v		99	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	56	47.6		ug/m3		85	72 - 127
cis-1,2-Dichloroethene	41	31.4		ug/m3		76	72 - 121
Tetrachloroethene	71	58.8		ug/m3		83	70 - 125
trans-1,2-Dichloroethene	41	36.8		ug/m3		90	69 - 137
Trichloroethene	55	45.4		ug/m3		82	73 - 122
Vinyl chloride	26	25.3		ug/m3		99	61 - 135

Lab Sample ID: MB 200-167733/4
Matrix: Air
Analysis Batch: 167733

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.039		0.20	0.039	ppb v/v			06/09/21 10:06	1
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			06/09/21 10:06	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			06/09/21 10:06	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			06/09/21 10:06	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			06/09/21 10:06	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			06/09/21 10:06	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.1	0.21	ug/m3			06/09/21 10:06	1

Eurofins TestAmerica, Burlington

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

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

Lab Sample ID: MB 200-167733/4
Matrix: Air
Analysis Batch: 167733

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			06/09/21 10:06	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			06/09/21 10:06	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			06/09/21 10:06	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			06/09/21 10:06	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			06/09/21 10:06	1

Lab Sample ID: LCS 200-167733/3
Matrix: Air
Analysis Batch: 167733

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.3	9.91		ppb v/v		96	72 - 127
cis-1,2-Dichloroethene	10.4	9.47		ppb v/v		91	72 - 121
Tetrachloroethene	10.5	9.51		ppb v/v		91	70 - 125
trans-1,2-Dichloroethene	10.3	9.24		ppb v/v		89	69 - 137
Trichloroethene	10.3	9.59		ppb v/v		93	73 - 122
Vinyl chloride	9.99	9.38		ppb v/v		94	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	56	54.1		ug/m3		96	72 - 127
cis-1,2-Dichloroethene	41	37.5		ug/m3		91	72 - 121
Tetrachloroethene	71	64.5		ug/m3		91	70 - 125
trans-1,2-Dichloroethene	41	36.6		ug/m3		89	69 - 137
Trichloroethene	55	51.5		ug/m3		93	73 - 122
Vinyl chloride	26	24.0		ug/m3		94	61 - 135

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Air - GC/MS VOA

Analysis Batch: 167671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-58808-1	OUT	Total/NA	Air	TO-15	
200-58808-2	429-A	Total/NA	Air	TO-15	
200-58808-3	407-A	Total/NA	Air	TO-15	
MB 200-167671/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-167671/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 167733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-58808-1 - DL	OUT	Total/NA	Air	TO-15	
200-58808-4	429-S	Total/NA	Air	TO-15	
200-58808-4 - DL	429-S	Total/NA	Air	TO-15	
200-58808-5	407-S	Total/NA	Air	TO-15	
200-58808-6	5575-A	Total/NA	Air	TO-15	
200-58808-7	5575-S	Total/NA	Air	TO-15	
MB 200-167733/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-167733/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Client Sample ID: OUT

Date Collected: 06/03/21 16:23

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167671	06/08/21 20:27	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	2	167733	06/09/21 21:36	A1B	TAL BUR

Client Sample ID: 429-A

Date Collected: 06/03/21 16:25

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167671	06/08/21 21:26	A1B	TAL BUR

Client Sample ID: 407-A

Date Collected: 06/03/21 16:31

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167671	06/08/21 22:25	A1B	TAL BUR

Client Sample ID: 429-S

Date Collected: 06/03/21 10:38

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		6	167733	06/09/21 22:29	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	30.4	167733	06/09/21 23:23	A1B	TAL BUR

Client Sample ID: 407-S

Date Collected: 06/03/21 11:50

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167733	06/10/21 00:16	A1B	TAL BUR

Client Sample ID: 5575-A

Date Collected: 06/04/21 11:52

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167733	06/10/21 01:09	A1B	TAL BUR

Client Sample ID: 5575-S

Date Collected: 06/03/21 13:00

Date Received: 06/08/21 10:45

Lab Sample ID: 200-58808-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	167733	06/10/21 02:02	A1B	TAL BUR

Eurofins TestAmerica, Burlington

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-21

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Whitefish Bay, Glendale, WI 193707230

Job ID: 200-58808-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-58808-1	OUT	Air	06/03/21 16:23	06/08/21 10:45	Air Canister (6-Liter) #4133
200-58808-2	429-A	Air	06/03/21 16:25	06/08/21 10:45	Air Canister (6-Liter) #4141
200-58808-3	407-A	Air	06/03/21 16:31	06/08/21 10:45	Air Canister (6-Liter) #5398
200-58808-4	429-S	Air	06/03/21 10:38	06/08/21 10:45	Air Canister (6-Liter) #4817
200-58808-5	407-S	Air	06/03/21 11:50	06/08/21 10:45	Air Canister (6-Liter) #3038
200-58808-6	5575-A	Air	06/04/21 11:52	06/08/21 10:45	Air Canister (6-Liter) #8132
200-58808-7	5575-S	Air	06/03/21 13:00	06/08/21 10:45	Air Canister (6-Liter) #6006

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: JOTA (708) 534-5200
SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

SHIP DATE: 07 JUN 21
ACTWGT: 25.00 LB MAN
CAD: 033264/CAFE3504

UNIVERSITY PARK, IL 60484
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIPT**

**TESTAMERICA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11**

SOUTH BURLINGTON VT 05403

(802) 660-1990

REF: STANTEC DE



FedEx
Express



2 of 2

MPS# 1893 4452 1717

Mstr# 1893 4452 1706

**TUE - 08 JUN 10:30A
PRIORITY OVERNIGHT**

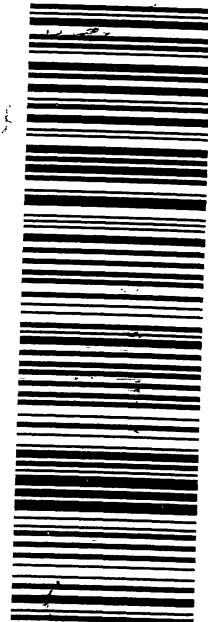
0201

NL BTVA

05403

VT-US

BTV



THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: JOTA (708) 534-5200
SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

SHIP DATE: 07 JUN 21
ACTWGT: 33.00 LB MAN
CAD: 033264/CAFE3504

UNIVERSITY PARK, IL 60484
UNITED STATES US

BILL SENDER

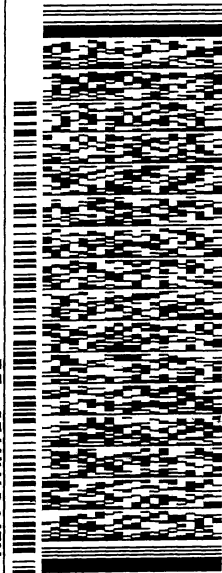
TO **SAMPLE RECEIPT**

**TESTAMERICA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11**

SOUTH BURLINGTON VT 05403

(802) 660-1990

REF: STANTEC DE



FedEx
Express



1 of 2

TRK# 1893 4452 1706

MASTER

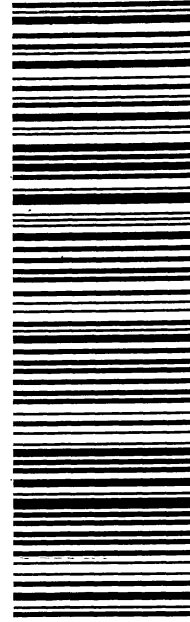
**TUE - 08 JUN 10:30A
PRIORITY OVERNIGHT**

NL BTVA

05403

VT-US

BTV



56DC3/387/5F4D

J211020121101

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J211020121101



Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 200-58808-1

Login Number: 58808

List Source: Eurofins TestAmerica, Burlington

List Number: 1

Creator: Lavigne, Scott M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1451890,891,892,893
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58163-1
 SDG No.: _____
 Client Sample ID: 5903 Lab Sample ID: 200-58163-9
 Matrix: Air Lab File ID: 45697-13.D
 Analysis Method: TO-15 Date Collected: 04/22/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/26/2021 17:46
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166151 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58163-1
 SDG No.: _____
 Client Sample ID: 5903 Lab Sample ID: 200-58163-9
 Matrix: Air Lab File ID: 45697-13.D
 Analysis Method: TO-15 Date Collected: 04/22/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/26/2021 17:46
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166151 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58163-1
 SDG No.: _____
 Client Sample ID: 5903 Lab Sample ID: 200-58163-9
 Matrix: Air Lab File ID: 45697-13.D
 Analysis Method: TO-15 Date Collected: 04/22/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/26/2021 17:46
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166151 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D
 Lims ID: 200-58163-A-9
 Client ID: 5903
 Sample Type: Client
 Inject. Date: 26-Apr-2021 17:46:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0045697-013
 Misc. Info.: 58163-9
 Operator ID: vtp Instrument ID: CHC.i
 Method: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 27-Apr-2021 09:18:17 Calib Date: 11-Mar-2021 23:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHC.i\20210311-45131.b\45131-13.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: bunmaa

Date: 27-Apr-2021 09:18:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.833				ND	U
2 Dichlorodifluoromethane	85		2.891				ND	
3 Chlorodifluoromethane	51		2.934				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.132				ND	
5 Chloromethane	50		3.244				ND	
6 Butane	43		3.431				ND	7
7 Vinyl chloride	62		3.457				ND	
8 Butadiene	54		3.527				ND	
10 Bromomethane	94		4.124				ND	
11 Chloroethane	64		4.343				ND	
13 Vinyl bromide	106		4.711				ND	
14 Trichlorofluoromethane	101		4.829				ND	
17 Ethanol	45		5.443				ND	
20 1,1,2-Trichloro-1,2,2-trifluoro	101		5.885				ND	
21 1,1-Dichloroethene	96		5.891				ND	
22 Acetone	43		6.120				ND	
23 Carbon disulfide	76		6.259				ND	
24 Isopropyl alcohol	45		6.505				ND	
25 3-Chloro-1-propene	41		6.649				ND	
27 Methylene Chloride	49		6.932				ND	
28 2-Methyl-2-propanol	59		7.273				ND	
31 trans-1,2-Dichloroethene	61		7.385				ND	
29 Methyl tert-butyl ether	73		7.412				ND	
33 Hexane	57		7.817				ND	
34 1,1-Dichloroethane	63		8.223				ND	
35 Vinyl acetate	43		8.335				ND	
37 cis-1,2-Dichloroethene	96		9.312				ND	
38 2-Butanone (MEK)	72		9.370				ND	
39 Ethyl acetate	88		9.456				ND	
* 40 Chlorobromomethane	128	9.749	9.755	-0.006	91	251274	20.0	
41 Tetrahydrofuran	42		9.824				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		9.910				ND	
44 1,1,1-Trichloroethane	97		10.182				ND	
43 Cyclohexane	84		10.187				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	7
45 Carbon tetrachloride	117		10.449				ND	
47 Benzene	78		10.876				ND	
46 Isooctane	57		10.924				ND	
48 1,2-Dichloroethane	62		11.025				ND	
49 n-Heptane	43		11.329				ND	
* 50 1,4-Difluorobenzene	114	11.719	11.719	0.000	95	1421268	20.0	
53 Trichloroethene	95		12.194				ND	
54 1,2-Dichloropropane	63		12.695				ND	
55 Methyl methacrylate	69		12.936				ND	
57 Dibromomethane	174		12.946				ND	
56 1,4-Dioxane	88		12.984				ND	
58 Dichlorobromomethane	83		13.277				ND	
60 cis-1,3-Dichloropropene	75		14.238				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.553				ND	
65 Toluene	92		14.846				ND	
66 trans-1,3-Dichloropropene	75		15.444				ND	
67 1,1,2-Trichloroethane	83		15.807				ND	
68 Tetrachloroethene	166		15.972				ND	
69 2-Hexanone	43		16.303				ND	
71 Chlorodibromomethane	129		16.575				ND	
72 Ethylene Dibromide	107		16.826				ND	
* 74 Chlorobenzene-d5	117	17.760	17.760	0.000	89	1488009	20.0	
75 Chlorobenzene	112		17.819				ND	
76 Ethylbenzene	91		17.995				ND	U
78 m-Xylene & p-Xylene	106		18.251				ND	
79 o-Xylene	106		19.078				ND	
80 Styrene	104		19.132				ND	
81 Bromoform	173		19.543				ND	
82 Isopropylbenzene	105		19.831				ND	
S 73 Xylenes, Total	106		20.100				ND	7
84 1,1,2,2-Tetrachloroethane	83		20.519				ND	
85 N-Propylbenzene	91		20.626				ND	
89 2-Chlorotoluene	91		20.818				ND	
88 4-Ethyltoluene	105		20.834				ND	
90 1,3,5-Trimethylbenzene	105		20.946				ND	
92 tert-Butylbenzene	119		21.469				ND	
93 1,2,4-Trimethylbenzene	105		21.565				ND	
94 sec-Butylbenzene	105		21.816				ND	
95 4-Isopropyltoluene	119		22.030				ND	
96 1,3-Dichlorobenzene	146		22.035				ND	
97 1,4-Dichlorobenzene	146		22.179				ND	
98 Benzyl chloride	91		22.371				ND	7
100 n-Butylbenzene	91		22.617				ND	7
101 1,2-Dichlorobenzene	146		22.702				ND	
103 1,2,4-Trichlorobenzene	180		25.034				ND	
104 Hexachlorobutadiene	225		25.237				ND	
105 Naphthalene	128		25.445				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 40.00

Units: mL

Run Reagent

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

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D

Injection Date: 26-Apr-2021 17:46:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: 200-58163-A-9

Lab Sample ID: 200-58163-9

Worklist Smp#: 13

Client ID: 5903

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

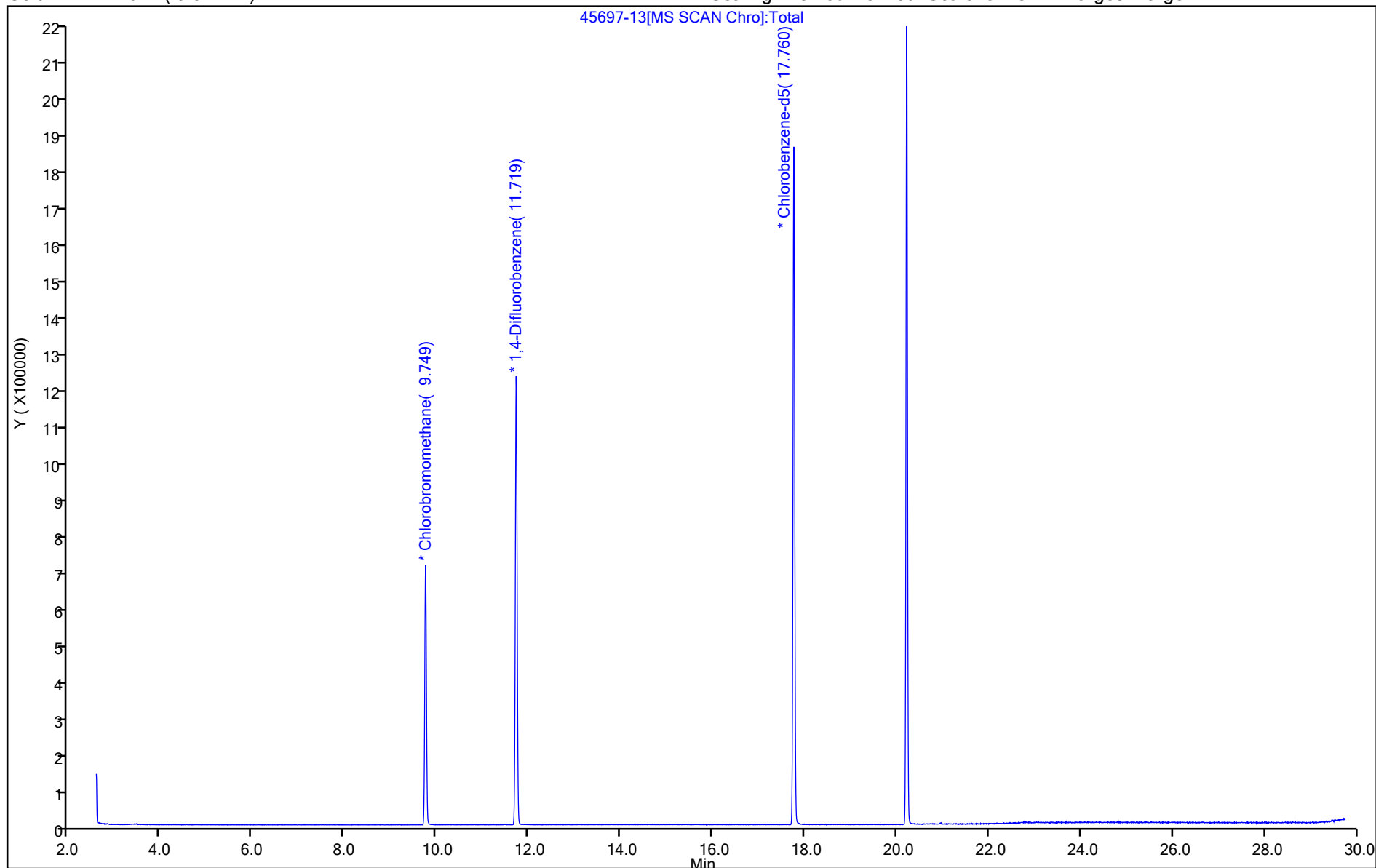
ALS Bottle#: 12

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

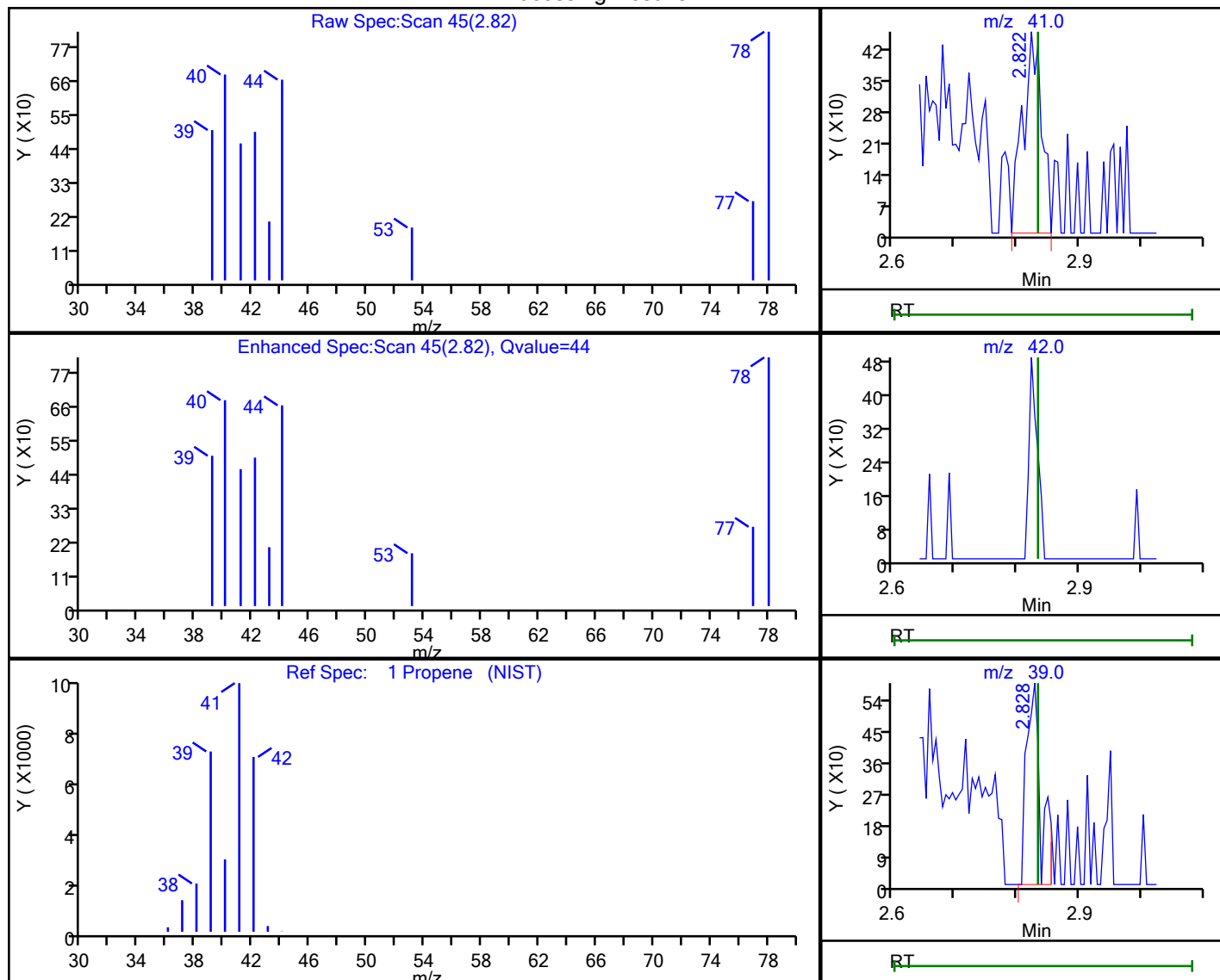


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D
 Injection Date: 26-Apr-2021 17:46:30 Instrument ID: CHC.i
 Lims ID: 200-58163-A-9 Lab Sample ID: 200-58163-9
 Client ID: 5903
 Operator ID: vtp ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

1 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
2.82	41.00	951	0.141567
2.83	42.00	0	
2.83	39.00	939	

Reviewer: bunmaa, 27-Apr-2021 09:17:00

Audit Action: Marked Compound Undetected

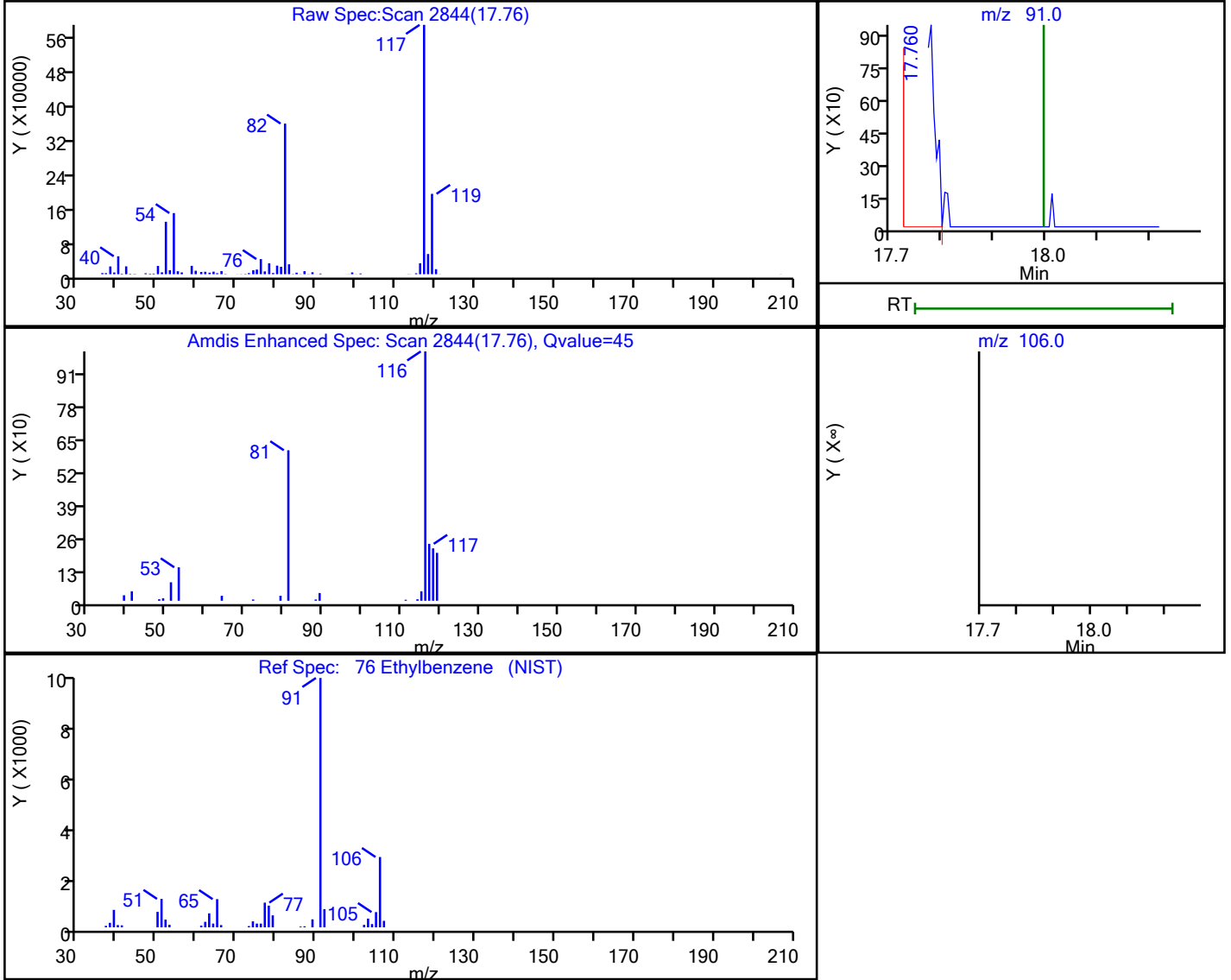
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHC.i\20210426-45697.b\45697-13.D
 Injection Date: 26-Apr-2021 17:46:30 Instrument ID: CHC.i
 Lims ID: 200-58163-A-9 Lab Sample ID: 200-58163-9
 Client ID: 5903
 Operator ID: vtp ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
17.76	91.00	3336	0.032906
17.99	106.00	0	

Reviewer: bunmaa, 27-Apr-2021 09:17:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58182-1
 SDG No.: _____
 Client Sample ID: 5463 Lab Sample ID: 200-58182-10
 Matrix: Air Lab File ID: 45726-005.d
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 14:25
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166208 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58182-1
 SDG No.: _____
 Client Sample ID: 5463 Lab Sample ID: 200-58182-10
 Matrix: Air Lab File ID: 45726-005.d
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 14:25
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166208 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58182-1
 SDG No.: _____
 Client Sample ID: 5463 Lab Sample ID: 200-58182-10
 Matrix: Air Lab File ID: 45726-005.d
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 14:25
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166208 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d
 Lims ID: 200-58182-A-10
 Client ID: 5463
 Sample Type: Client
 Inject. Date: 27-Apr-2021 14:25:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0045726-005
 Operator ID: ggg Instrument ID: CHW.i
 Method: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\TO15_TO3_MasterMethod_W.m
 Limit Group: AI_TO15_ICAL
 Last Update: 28-Apr-2021 07:50:35 Calib Date: 27-Apr-2021 01:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20210426-45699.b\45699-013.d
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1666

First Level Reviewer: bunmaa

Date: 28-Apr-2021 07:50:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.126				ND	
2 Dichlorodifluoromethane	85		4.217				ND	
3 Chlorodifluoromethane	51		4.265				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.592				ND	
5 Chloromethane	50		4.699				ND	
6 Vinyl chloride	62		5.014				ND	
7 Butane	43		5.020				ND	7
8 Butadiene	54		5.137				ND	
9 Bromomethane	94		5.854				ND	
10 Chloroethane	64		6.138				ND	
13 Vinyl bromide	106		6.555				ND	
14 Trichlorofluoromethane	101		6.721				ND	
16 Ethanol	45		7.170				ND	
20 1,1-Dichloroethene	96		7.791				ND	
21 112TCTFE	101		7.839				ND	
22 Acetone	43		7.930				ND	
23 Carbon disulfide	76	8.203	8.197	0.006	97	2845	0.0631	
24 Isopropyl alcohol	45		8.251				ND	
26 3-Chloro-1-propene	41		8.497				ND	
27 Methylene Chloride	49	8.732	8.727	0.005	81	1358	0.0889	
28 2-Methyl-2-propanol	59		9.037				ND	
30 trans-1,2-Dichloroethene	61		9.224				ND	
31 Methyl tert-butyl ether	73		9.278				ND	
32 Hexane	57		9.738				ND	
33 1,1-Dichloroethane	63		9.995				ND	
34 Vinyl acetate	43		10.022				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
36 cis-1,2-Dichloroethene	96		10.984				ND	
37 2-Butanone (MEK)	72		10.990				ND	
38 Ethyl acetate	88		11.070				ND	
* 39 Chlorobromomethane	128	11.396	11.396	0.000	81	123910	10.0	
40 Tetrahydrofuran	42		11.477				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		11.578				ND	
42 1,1,1-Trichloroethane	97		11.883				ND	
43 Cyclohexane	84		12.017				ND	
44 Carbon tetrachloride	117		12.161				ND	
45 Benzene	78		12.509				ND	
46 1,2-Dichloroethane	62		12.584				ND	
47 Isooctane	57		12.723				ND	
48 n-Heptane	43		13.033				ND	
* 49 1,4-Difluorobenzene	114	13.242	13.247	-0.005	93	609364	10.0	
51 Trichloroethene	95		13.675				ND	
53 1,2-Dichloropropane	63		14.130				ND	
55 Methyl methacrylate	69		14.232				ND	
56 Dibromomethane	174		14.291				ND	U
57 1,4-Dioxane	88		14.296				ND	
58 Dichlorobromomethane	83		14.601				ND	
60 cis-1,3-Dichloropropene	75		15.403				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.692				ND	
62 Toluene	92		16.045				ND	
64 trans-1,3-Dichloropropene	75		16.457				ND	
65 1,1,2-Trichloroethane	83		16.832				ND	
66 Tetrachloroethene	166		17.035				ND	
67 2-Hexanone	43		17.292				ND	
68 Chlorodibromomethane	129		17.570				ND	
69 Ethylene Dibromide	107		17.811				ND	
* 70 Chlorobenzene-d5	117	18.720	18.720	0.000	84	472177	10.0	
72 Chlorobenzene	112		18.779				ND	7
73 Ethylbenzene	91		18.977				ND	7
74 m-Xylene & p-Xylene	106		19.239				ND	
76 o-Xylene	106		20.009				ND	
77 Styrene	104		20.047				ND	
S 78 Xylenes, Total	106		20.100				ND	7
79 Bromoform	173		20.400				ND	
80 Isopropylbenzene	105		20.716				ND	
81 1,1,2,2-Tetrachloroethane	83		21.235				ND	7
83 N-Propylbenzene	91		21.438				ND	7
84 2-Chlorotoluene	91		21.582				ND	7
85 4-Ethyltoluene	105		21.636				ND	7
86 1,3,5-Trimethylbenzene	105		21.732				ND	7
89 tert-Butylbenzene	119		22.214				ND	
90 1,2,4-Trimethylbenzene	105		22.304				ND	7
91 sec-Butylbenzene	105		22.540				ND	7
92 1,3-Dichlorobenzene	146	22.711	22.711	0.000	84	609	0.0157	
93 4-Isopropyltoluene	119		22.759				ND	7
94 1,4-Dichlorobenzene	146	22.856	22.855	0.001	91	584	0.0164	
95 Benzyl chloride	91		23.000				ND	U
96 n-Butylbenzene	91		23.310				ND	7
97 1,2-Dichlorobenzene	146	23.342	23.342	0.000	91	883	0.0214	
100 1,2,4-Trichlorobenzene	180	25.755	25.760	-0.005	78	401	0.0179	
101 Hexachlorobutadiene	225		26.006				ND	
102 Naphthalene	128		26.236				ND	U

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15WISs_00009

Amount Added: 20.00

Units: mL

Run Reagent

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

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d

Injection Date: 27-Apr-2021 14:25:30

Instrument ID: CHW.i

Operator ID: ggg

Lims ID: 200-58182-A-10

Lab Sample ID: 200-58182-10

Worklist Smp#: 5

Client ID: 5463

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

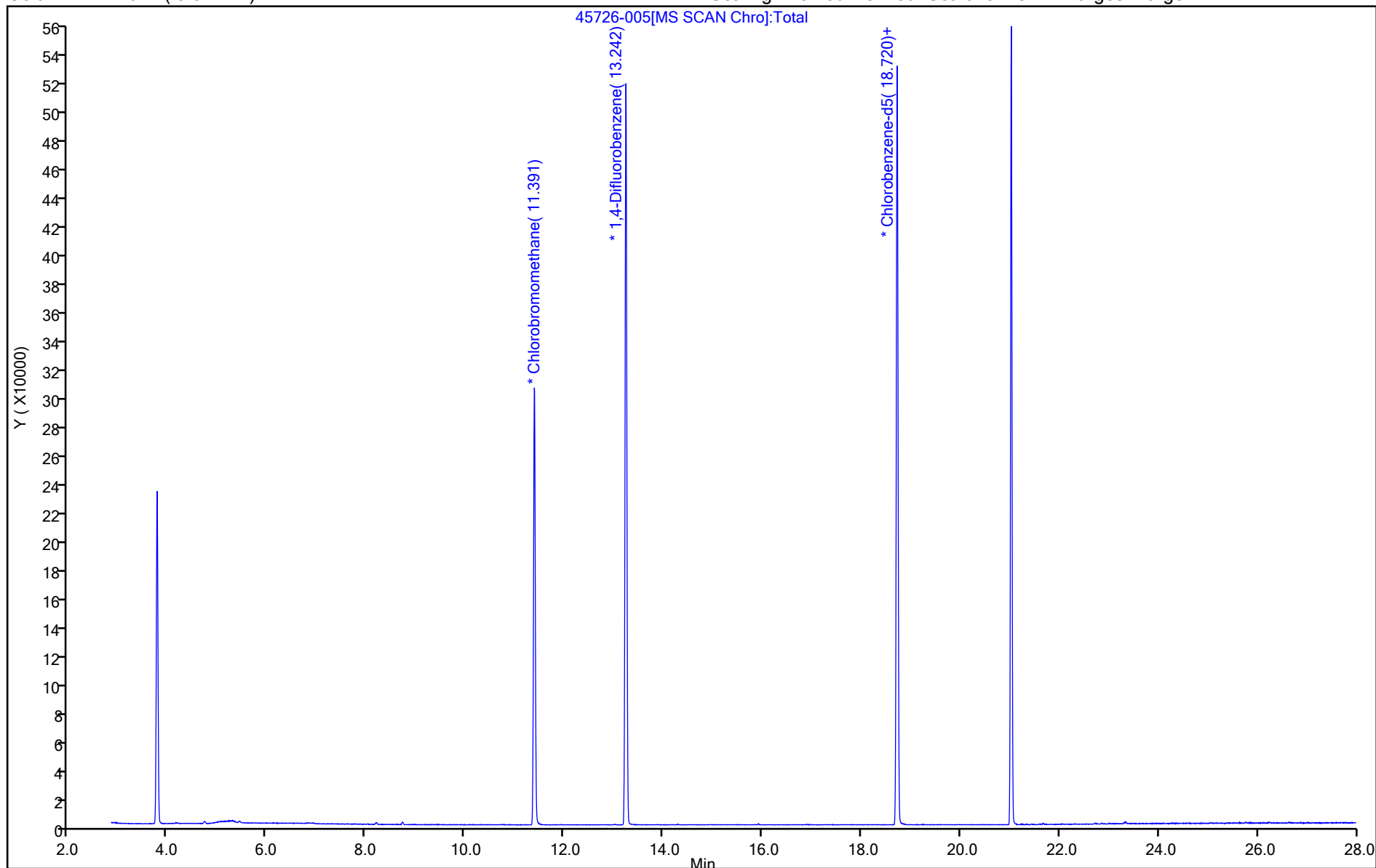
ALS Bottle#: 4

Method: TO15_TO3_MasterMethod_W

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

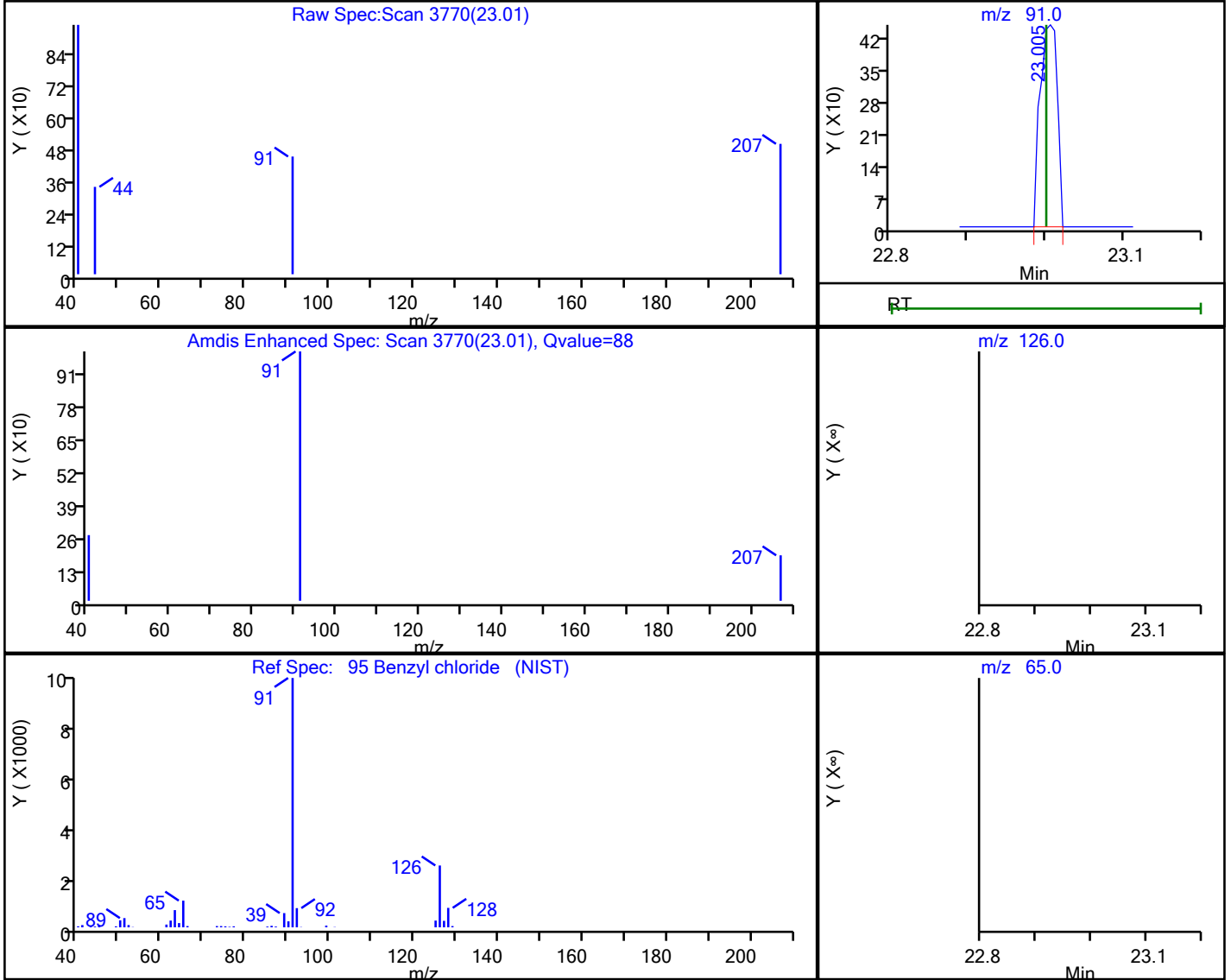


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d
Injection Date: 27-Apr-2021 14:25:30 Instrument ID: CHW.i
Lims ID: 200-58182-A-10 Lab Sample ID: 200-58182-10
Client ID: 5463
Operator ID: ggg ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Method: TO15_TO3_MasterMethod_W Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
23.01	91.00	689	0.017218
23.00	126.00	0	
23.00	65.00	0	

Reviewer: bunmaa, 28-Apr-2021 07:49:49

Audit Action: Marked Compound Undetected

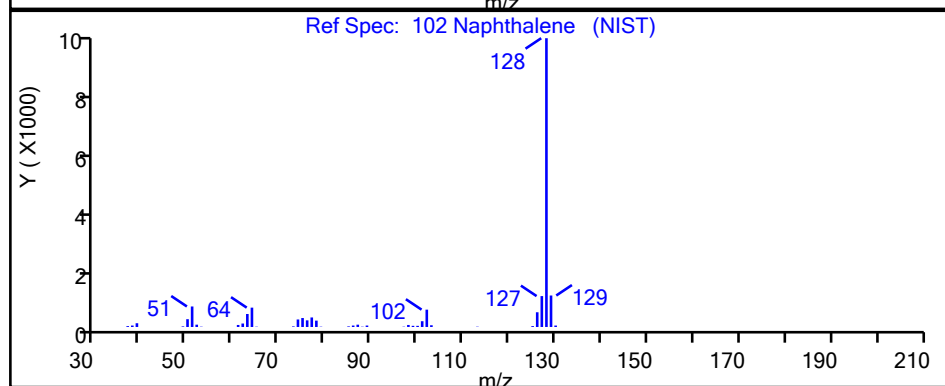
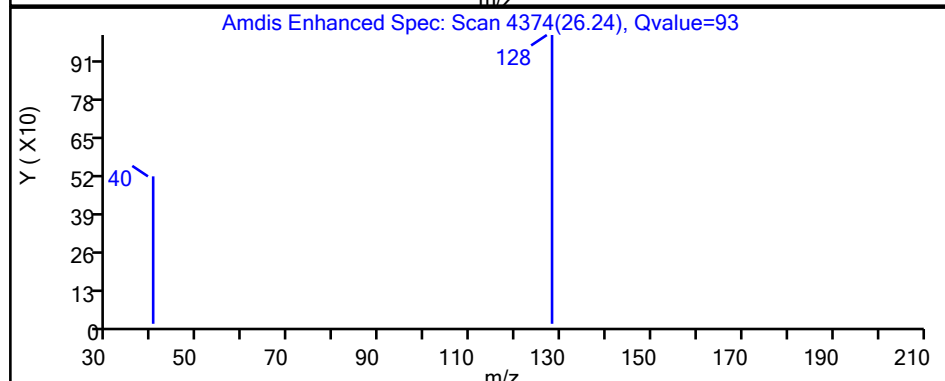
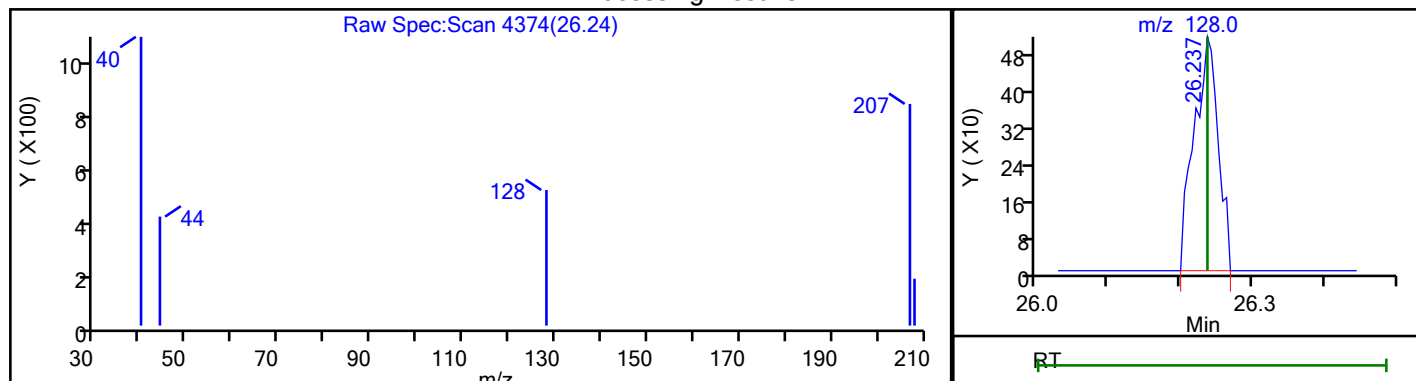
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20210427-45726.b\45726-005.d
 Injection Date: 27-Apr-2021 14:25:30 Instrument ID: CHW.i
 Lims ID: 200-58182-A-10 Lab Sample ID: 200-58182-10
 Client ID: 5463
 Operator ID: ggg ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_TO3_MasterMethod_W Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

102 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
26.24	128.00	1198	0.023305

Reviewer: bunmaa, 28-Apr-2021 07:50:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58186-1
 SDG No.: _____
 Client Sample ID: 5094 Lab Sample ID: 200-58186-10
 Matrix: Air Lab File ID: 45723-06.D
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 11:52
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166201 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58186-1
 SDG No.: _____
 Client Sample ID: 5094 Lab Sample ID: 200-58186-10
 Matrix: Air Lab File ID: 45723-06.D
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 11:52
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166201 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

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

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58186-1
 SDG No.: _____
 Client Sample ID: 5094 Lab Sample ID: 200-58186-10
 Matrix: Air Lab File ID: 45723-06.D
 Analysis Method: TO-15 Date Collected: 04/23/2021 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/27/2021 11:52
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 166201 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D
 Lims ID: 200-58186-A-10
 Client ID: 5094
 Sample Type: Client
 Inject. Date: 27-Apr-2021 11:52:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0045723-006
 Misc. Info.: 58186-10
 Operator ID: ggg Instrument ID: CHX.i
 Method: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\TO15_MasterMethod_X.m.m
 Limit Group: AI_TO15_ICAL
 Last Update: 28-Apr-2021 08:52:46 Calib Date: 09-Apr-2021 11:15:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20210408-45522.b\45522-23.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1671

First Level Reviewer: puangmaleek

Date: 28-Apr-2021 08:52:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.338				ND	
2 Dichlorodifluoromethane	85		4.429				ND	
3 Chlorodifluoromethane	51		4.477				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.787				ND	
5 Chloromethane	50		4.916				ND	
6 Butane	43		5.226				ND	
7 Vinyl chloride	62		5.231				ND	
8 Butadiene	54		5.338				ND	
10 Bromomethane	94		6.055				ND	
11 Chloroethane	64		6.328				ND	
13 Vinyl bromide	106		6.745				ND	
14 Trichlorofluoromethane	101		6.900				ND	
17 Ethanol	45		7.237				ND	U
21 1,1-Dichloroethene	96		7.965				ND	
20 112TCTFE	101		7.992				ND	
22 Acetone	43		8.018				ND	
24 Isopropyl alcohol	45		8.291				ND	
23 Carbon disulfide	76		8.382				ND	
25 3-Chloro-1-propene	41		8.660				ND	
27 Methylene Chloride	49		8.890				ND	
28 2-Methyl-2-propanol	59		9.056				ND	
29 Methyl tert-butyl ether	73		9.372				ND	
31 trans-1,2-Dichloroethene	61		9.388				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	7
33 Hexane	57		9.886				ND	
35 Vinyl acetate	43		10.153				ND	
34 1,1-Dichloroethane	63		10.158				ND	
38 2-Butanone (MEK)	72		11.100				ND	
37 cis-1,2-Dichloroethene	96		11.148				ND	
39 Ethyl acetate	88		11.186				ND	
* 40 Chlorobromomethane	128	11.565	11.565	0.000	80	70595	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		11.587				ND	
42 Chloroform	83		11.737				ND	
44 1,1,1-Trichloroethane	97		12.041				ND	
43 Cyclohexane	84		12.181				ND	
45 Carbon tetrachloride	117		12.320				ND	
47 Benzene	78		12.667				ND	
48 1,2-Dichloroethane	62		12.753				ND	
46 Isooctane	57		12.865				ND	
49 n-Heptane	43		13.170				ND	
* 50 1,4-Difluorobenzene	114	13.400	13.400	0.000	93	352907	10.0	
53 Trichloroethene	95		13.834				ND	
54 1,2-Dichloropropane	63		14.299				ND	
55 Methyl methacrylate	69		14.358				ND	
56 1,4-Dioxane	88		14.406				ND	
57 Dibromomethane	174		14.460				ND	
58 Dichlorobromomethane	83		14.764				ND	
60 cis-1,3-Dichloropropene	75		15.562				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.797				ND	
65 Toluene	92		16.193				ND	
66 trans-1,3-Dichloropropene	75		16.615				ND	
67 1,1,2-Trichloroethane	83		16.995				ND	
68 Tetrachloroethene	166		17.183				ND	
69 2-Hexanone	43		17.375				ND	
71 Chlorodibromomethane	129		17.739				ND	
72 Ethylene Dibromide	107		17.980				ND	
* 74 Chlorobenzene-d5	117	18.878	18.878	0.000	84	262916	10.0	
75 Chlorobenzene	112		18.937				ND	
76 Ethylbenzene	91		19.119				ND	7
78 m-Xylene & p-Xylene	106		19.381				ND	
S 73 Xylenes, Total	106		19.600				ND	7
79 o-Xylene	106		20.157				ND	
80 Styrene	104		20.194				ND	
81 Bromoform	173		20.553				ND	
82 Isopropylbenzene	105		20.842				ND	
84 1,1,2,2-Tetrachloroethane	83		21.355				ND	
85 N-Propylbenzene	91		21.548				ND	
89 2-Chlorotoluene	91		21.698				ND	
88 4-Ethyltoluene	105		21.746				ND	
90 1,3,5-Trimethylbenzene	105		21.837				ND	
92 tert-Butylbenzene	119		22.313				ND	
93 1,2,4-Trimethylbenzene	105		22.398				ND	
94 sec-Butylbenzene	105		22.634				ND	
96 1,3-Dichlorobenzene	146		22.816				ND	7
95 4-Isopropyltoluene	119		22.848				ND	
97 1,4-Dichlorobenzene	146		22.960				ND	U
98 Benzyl chloride	91		23.099				ND	
100 n-Butylbenzene	91		23.404				ND	
101 1,2-Dichlorobenzene	146		23.447				ND	
103 1,2,4-Trichlorobenzene	180		25.897				ND	
104 Hexachlorobutadiene	225		26.133				ND	
105 Naphthalene	128		26.384				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

ATTO15XISs_00002

Amount Added: 20.00

Units: mL

Run Reagent

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

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D

Injection Date: 27-Apr-2021 11:52:30

Instrument ID: CHX.i

Operator ID: ggg

Lims ID: 200-58186-A-10

Lab Sample ID: 200-58186-10

Worklist Smp#: 6

Client ID: 5094

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

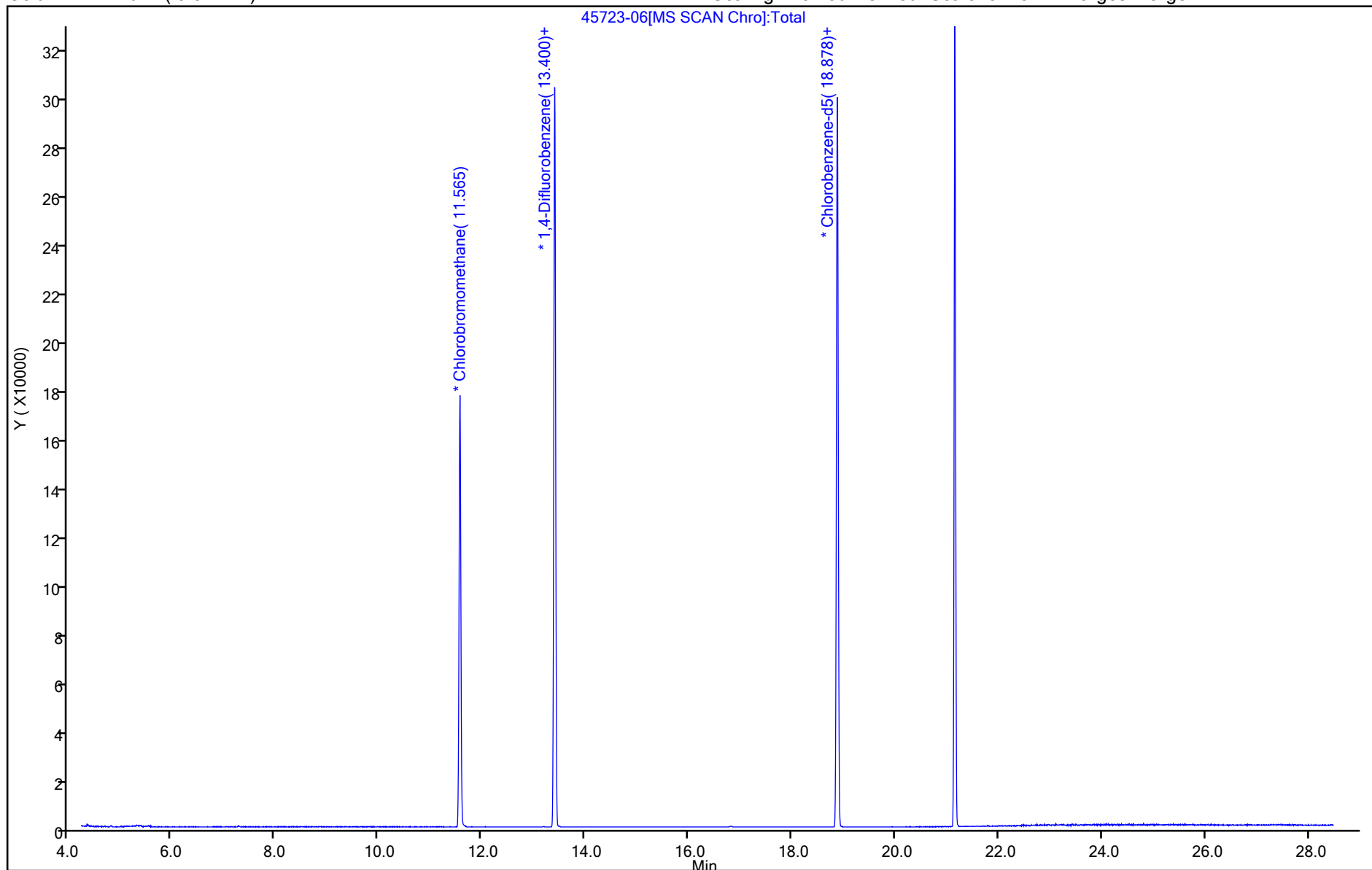
ALS Bottle#: 5

Method: TO15_MasterMethod_X.m

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

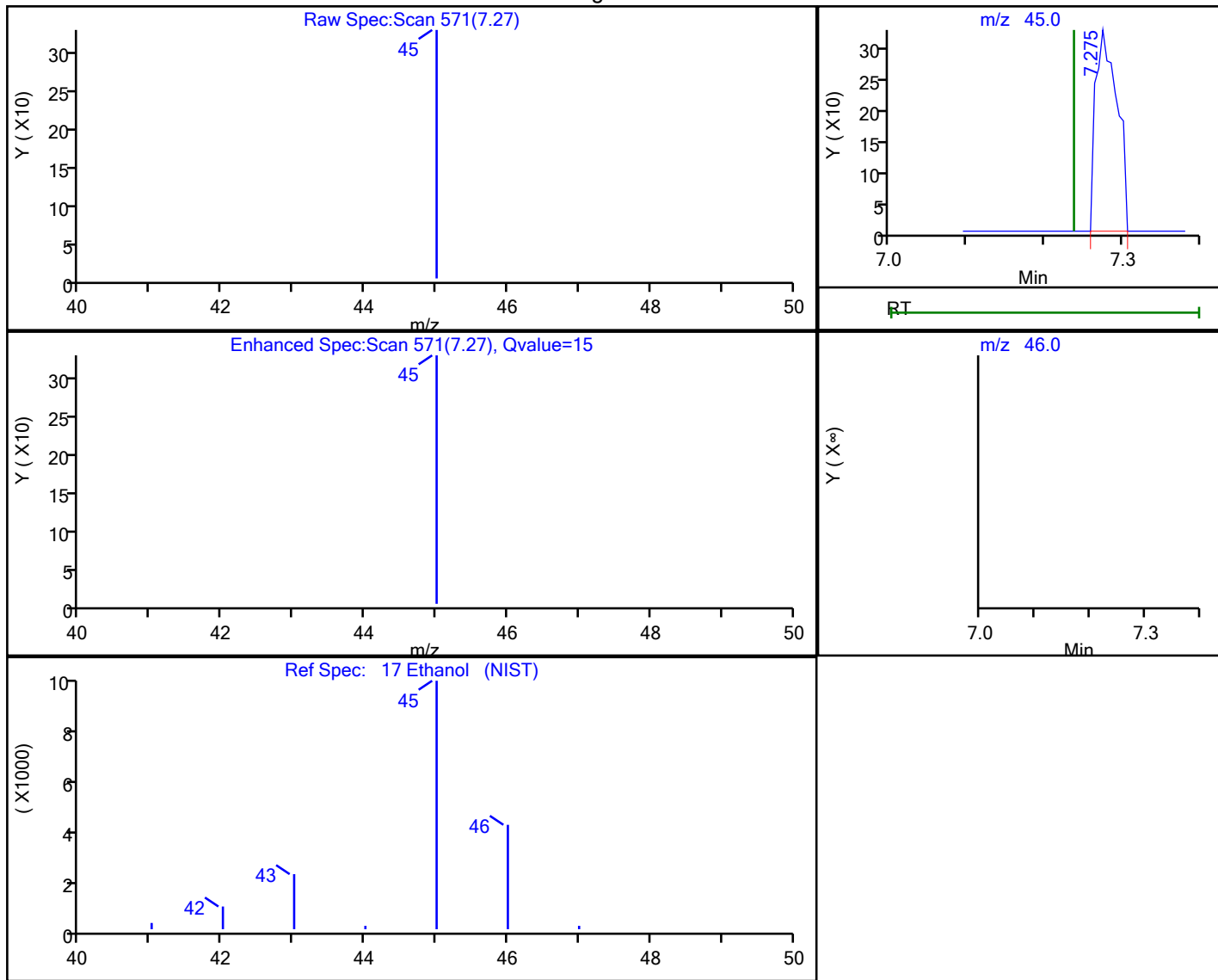


Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D
 Injection Date: 27-Apr-2021 11:52:30 Instrument ID: CHX.i
 Lims ID: 200-58186-A-10 Lab Sample ID: 200-58186-10
 Client ID: 5094
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

17 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
7.27	45.00	629	0.124679
7.24	46.00	0	

Reviewer: puangmaleek, 28-Apr-2021 08:52:22

Audit Action: Marked Compound Undetected

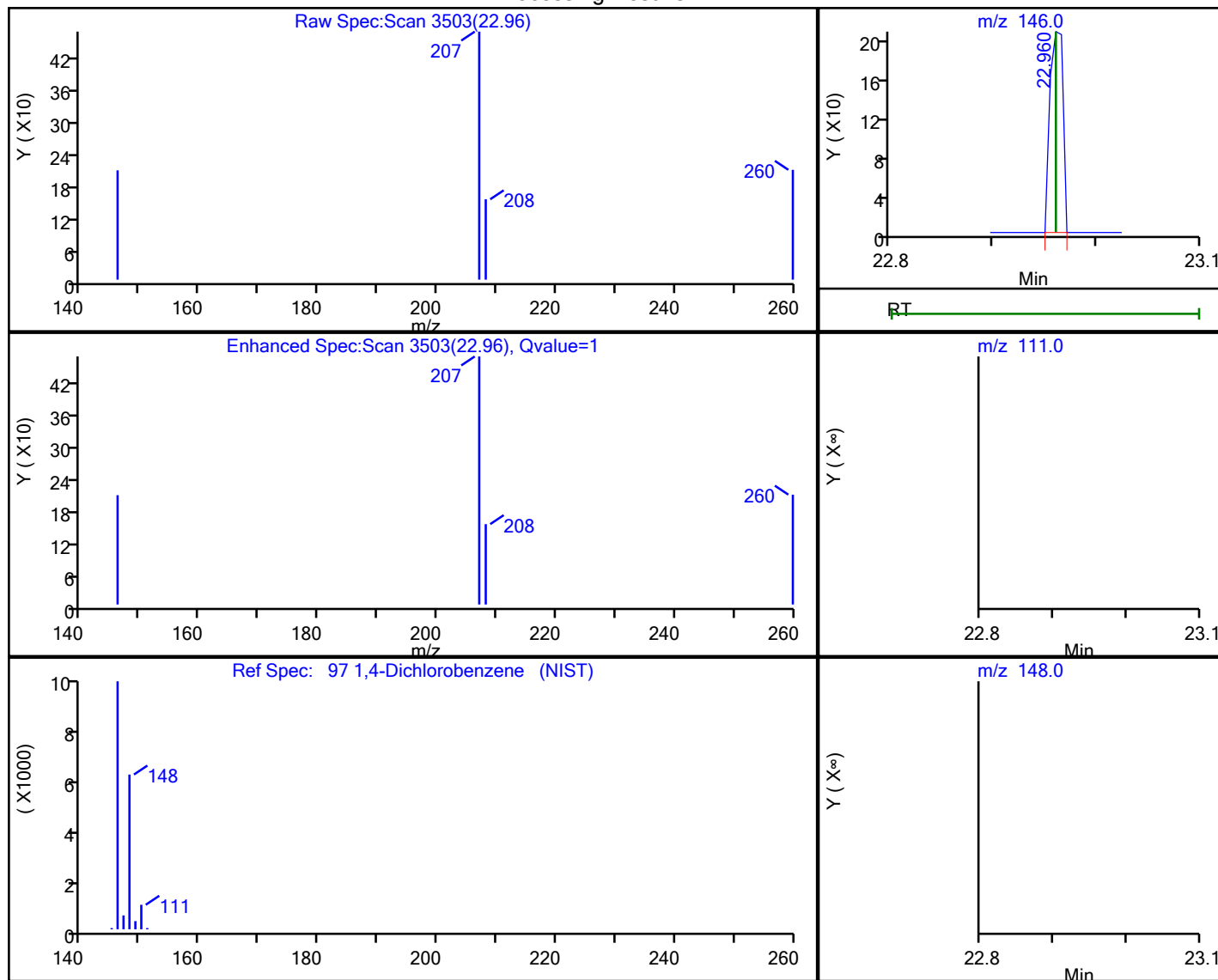
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20210427-45723.b\45723-06.D
 Injection Date: 27-Apr-2021 11:52:30 Instrument ID: CHX.i
 Lims ID: 200-58186-A-10 Lab Sample ID: 200-58186-10
 Client ID: 5094
 Operator ID: ggg ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
22.96	146.00	181	0.012734
22.96	111.00	0	
22.96	148.00	0	

Reviewer: puangmaleek, 28-Apr-2021 08:52:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Summa Canister Dilution Worksheet

Client: Stantec Consulting Corp.
 Project/Site: Whitefish Bay, Glendale, WI 193707230

Job No.: 200-58808-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
200-58808-4	6	-5.2	0.83	4.96	40.7	3.77	22.61		4.56	4.56	G21	06/09/21 10:21	TPB

Formulae:

- Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg
- Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig
- Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

- 29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)
- 14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

