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May 17, 2021

Omer Shalev
Environmental Engineer
United States Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105

Subject: Quarterly Performance Evaluation Report, First Quarter 2021
Full Scale On-Site Soil Remedy
Omega Chemical Superfund Site, Operable Unit 1, Whittier, California

Dear Mr. Shalev:

Enclosed for your review is the first quarter 2021 Performance Evaluation Report for the Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site, Operable Unit1, Whittier, California.

Should you have any questions, regarding the above, please contact me.

Sincerely,

Omega Chemical Site PRP Organized Group

Edward Modiano
Project Coordinator

Jaime Dinello, PE
Project Manager

cc: Don Indermill, DTSC

FULL-SCALE ON-SITE SOIL REMEDY
OMEGA CHEMICAL SUPERFUND SITE, OU-1

Quarterly Performance Evaluation Report
First Quarter 2021

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FULL-SCALE ON-SITE SOIL REMEDY

OMEGA CHEMICAL SUPERFUND SITE, OU-1

Quarterly Performance Evaluation Report

First Quarter 2021

1. INTRODUCTION

This Quarterly Performance Evaluation Report (QPER) has been prepared on behalf of the Omega Chemical Site Potentially Responsible Parties Organized Group (OPOG) to comply with the October 6, 2010 Consent Decree No. 10-05051 (CD) between United States Environmental Protection Agency (USEPA) and OPOG (USEPA, 2010). The CD requires OPOG to design, construct, and operate a full-scale soil vapor extraction (SVE) and treatment system and perform associated monitoring to address vadose zone soil within Operable Unit 1 (OU-1). The CD Statement of Work satisfies the requirements of the 2008 OU-1 Record of Decision (ROD) (USEPA, 2008). Figure 1 shows the general location of OU-1, as well as the occupancy status of buildings within the operable unit. The locations of the OU-1 SVE system components, including the associated Vapor Extraction Wells (VEWs), the Dual Phase Extraction (DPE) wells, the treatment plant, and the associated Vapor Monitoring Probes (VMPs), are presented in Figure 2.

Remedial Action Objective (RAO) compliance monitoring includes the collection of soil gas and indoor air data within the OU-1 boundary. Current monitoring requirements are as follows:

- OU-1 SVE system operational data are collected to determine whether treated vapor emissions are substantively compliant with South Coast Air Quality Management District (SCAQMD) requirements as well as to conform to the requirements of the Draft OU-1 SVE Operations, Maintenance, and Monitoring (OM&M) Manual (CDM Smith, 2018a). OPOG responded to USEPA's comments on the Draft OM&M Manual and Sampling and Analysis Plan on June 18, 2019. USEPA provided concurrence to OPOG's responses on February 25, 2021. OPOG is currently finalizing the OM&M Manual and expects to submit the final version to USEPA in the Third Quarter 2021. These data are included in Section 2.

- Shallow soil gas data are collected semi-annually during the first and third quarters from specified VMPs in the shallow vadose zone (0 – 30 feet below ground surface [bgs]) to show that concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) are declining in the vadose zone, making progress toward achieving the specified soil gas cleanup levels that are protective of indoor air (RAO #1) and will also ultimately result in achieving soil cleanup levels (RAO #2). These data are collected from VMPs and assessed in accordance with the USEPA-approved soil gas sampling memo (CDM Smith, 2018b). The USEPA-approved soil gas sampling memo specifies all required compliance monitoring for the OU-1 SVE system until the approval of the OM&M Manual. These data are included in Section 3.

- Deep soil gas data are collected semi-annually during the first and third quarters from specified VMPs in the deep vadose zone (40 – 70 feet bgs) to show that deep soil gas concentrations are stable or declining over time (RAO #3). These data are also collected and assessed in accordance with the USEPA-approved soil gas sampling memo (CDM Smith, 2018b) until approval of the OM&M Manual. These data are included in Section 3.

- Indoor air data are collected from within occupied OU-1 buildings to show that concentrations of PCE and TCE in indoor air are below acceptable risk levels (RAO #1). Indoor air compliance monitoring for 2021 is based on the 2020 Indoor Air Quality Sampling Plan (de maximis, 2019), which prescribes the sampling locations and structures to be sampled during the 2021 Annual (January) and Semi-Annual (July) monitoring events. These data are included in Section 4.

- Soil concentration data in the shallow vadose zone (0 – 30 feet bgs) will be collected in the future after mutual agreement between USEPA and OPOG.

2. OU-1 SVE SYSTEM OPERATIONS THIS QUARTER

The OU-1 SVE System functioned this quarter with minimal issues or downtime. Below is a list of non-routine operations and maintenance items, and description of intermittent shutdowns, which occurred in the first quarter:

- January 25, 2021 – System shut down due to high flow alarm. The system was able to be restarted on January 26, 2021.

- March 6, 2021 – Installation of a power loss alarm and remote start functionality to the auto dialer. This will allow the O&M Contractor to clear alarms and re-start the system remotely for certain alarms and shutdown conditions.

Approximately 5.2 pounds of volatile organic compound (VOC) mass were removed from soil gas this quarter, compared to 8.4 pounds removed in the previous quarter. Figure 3 shows the cumulative mass removed since 2010.

VACUUM BLOWER

As shown in Attachment A, Table A-1, the OU-1 SVE system functioned this quarter with an up time of approximately 99%.

VAPOR EXTRACTION WELLS (VEWs) AND DUAL PHASE EXTRACTION (DPE) WELLS

All OU-1 SVE system VEWs and DPE wells were mechanically functional during this quarter. VEW and DPE well operational data, including flow rate, total VOC concentrations, as measured by PID readings and laboratory analyses (if analytical samples were collected), vacuum, temperature, relative humidity, and estimated mass removed per well during the quarter are presented in Attachment B, Table B-1. No VEW influent manifold valve adjustments were recommended this quarter.

VAPOR MONTORING PROBES

The extraction wells provided enough vacuum influence to continue to remove mass and mitigate vapor migration. Per the EPA-approved soil gas memo, vacuum/pressure monitoring at specified VMPs shall be conducted quarterly, and analytical monitoring shall be conducted semi-annually (typically first and third quarters) except for select VMPs which are monitored for both vacuum and analytical concentrations annually.

A summary of the analytical data collected from these VMPs is included in Attachment C (Tables C-1 and C-2 for shallow and deep VMPs, respectively). Concentrations of PCE and TCE measured during this quarter are presented on Figures 4 and 5, respectively. As shown on Table C-1, VMP-93-60 was re-sampled on February 9, 2021 due to a pressure discrepancy in the summa canister when it arrived at the lab (the initial sample was not evaluated). No sample was collected from VMP-31-70 as there was no flow from the VMP. OPOG will continue

monitoring this VMP and evaluate the repair or replacement of this VMP, if necessary.

A summary of the VMP vacuum monitoring performed this quarter is included in Attachment C (Tables C-3/Figure C-1 and Table C-4/Figure C-2 for shallow and deep VMPs respectively). The VMPs that did not exhibit a vacuum of at least 0.1 inches of water column were located within the design radius of influence (ROI) of a VEW connected to the offline AOC SVE system (VE-21S, VE-39S, VE-31S, VE-6D, and VE-10D), were located at the edge of or beyond the design ROI of an operational VEW or DPE well (DPE-5), or were within the design ROI of a VEW where low VOC concentrations has led to EPA-approved operational cycling and reduced flow (VE-14S and VE-15S).

Attachment D serves as a placeholder for monitoring data collected from other VMPs not included in the EPA-approved soil gas memo (note that no VMPs of this type were sampled this quarter).

TREATED VAPOR DISCHARGE

The OU-1 SVE system operated in accordance with treated vapor discharge limits and Vapor Granular Activated Carbon (VGAC) operational requirements. The VGAC changeout criteria were not triggered during this quarter (Attachment A). The criteria are currently based on the existing Health Risk Assessment (HRA, CDM Smith, 2015), which is currently being updated as part of the revised OU-1 SVE OM&M Manual. The most recent carbon changeout of the lead and lag vessels were completed on March 15, 2019 and December 11, 2020, respectively.

Table 1 shows the VOC concentrations in the VGAC influent, midpoint, and effluent samples and effluent discharge limits. As discussed in the GAC assessments included in Attachment A, the OU-1 SVE system did not meet the conditions for a GAC change-out presented in the existing HRA this quarter and is therefore substantively compliant. OPOG will continue tracking these trends. Figure 6 shows VGAC influent concentrations for PCE and TCE since 2010. Attachment A, Table A-1 shows the flow rate, temperature, and total VOC concentrations, as measured using a PID. Figure A-1 shows selected parameters over time.

Operational field forms (for all monitoring discussed in this section) are provided in Attachment E. Analytical laboratory reports are provided in Attachment F. A summary of the results of the data quality assessment and data validation reports are provided in Attachment G.

3. SOIL GAS COMPLIANCE MONITORING

As shown on Figure 4, analytical results from shallow soil gas samples collected this quarter show that PCE cleanup levels were achieved at all VMPs sampled except for VMP-11 and VMP-24. TCE cleanup levels were achieved at all shallow VMPs sampled (Figure 5). Historical PCE and TCE concentrations in vapor from VMPs sampled this quarter are presented in time series charts in Attachment C, Figures C-3 through C-25. As shown on Figures C-19 through C-25, there are stable or declining trends in all deep soil gas VOC concentrations. These and all other data will continue to be assessed to determine if optimization should be conducted for a specific location.

4. INDOOR AIR COMPLIANCE MONITORING

The occupancy status and current monitoring schedule for each building is summarized in Table 2. Indoor air sampling is generally only conducted in buildings that are occupied. Occupancy status is verified each quarter.

As discussed above, indoor air compliance monitoring is conducted during the Annual (January) and Semi-Annual (July) monitoring events. Indoor air data collected from occupied OU-1 buildings during the Semi-Annual monitoring event show that concentrations of PCE and TCE in indoor air are below USEPA Regional Screening Levels (RSLs). IAQ results for PCE and TCE are presented on Figure 7 and a summary of results is included in Attachment H.

5. SUBMITTALS DURING THE QUARTER

The following submittals were provided to USEPA this quarter as part of the OU-1 Full Scale On-site Soil Remedy:

- OPOG Responses to EPA Comments on the 1Q2020 and 2Q2020 Reports (February 12, 2021)
- OPOG Responses to EPA Comments on the 3Q2020 Reports (February 12, 2021)
- Full Scale On-site Soil Remedy QPER, Fourth Quarter 2020 (February 16, 2021)

Additionally, EPA transmitted comments from APTIM on the 1Q2020 and 2Q2020 OU1 reports to OPOG on November 13, 2020 (APTIM, 2020). OPOG provided responses to these comments on February 12, 2021, where USEPA confirmed they had no additional comments on

February 25, 2021 (USEPA, 2021a).

EPA also transmitted comments on the 3Q2020 Full Scale On-Site Soil Remedy Quarterly Performance Evaluation Report to OPOG on December 7, 2020 (USEPA, 2020). OPOG provided responses on February 12, 2021 (de maximis, 2021), where USEPA confirmed they had no additional comments on February 25, 2021 (USEPA, 2021b).

6. PLANNED ACTIVITIES

Planned operational and monitoring activities scheduled for the next quarter include the following:

- Monthly vacuum, flow, temperature and PID monitoring at VEWs and DPE wells
- Quarterly vacuum monitoring at VMPs
- Review of VEW, DPE well, and VMP data to assess the need for optimizing performance
- Monthly assessment of VGAC effectiveness and need for VGAC changeout
- Quarterly performance reporting

7. PROBLEMS OR ISSUES OF CONCERN

None.

8. REFERENCES

APTIM Federal Services (APTIM). (2020). *Review of 1Q2020 and 2Q2020 OU1 Reports, Omega Chemical Superfund Site.* October 5.

CDM Smith. (2015). *Memorandum: Treatment of Effluent from Groundwater Treatment System and Soil Vapor Extraction, Omega Chemical Superfund Site, Whittier, California 90602,* February 26

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CDM Smith. (2018b). *Revised 2018 Operable Unit 1 (OU-1) On-site Soil Remedy Soil Gas Monitoring,* August 27

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Omega Chemical Site PRP Organized Group (OPOG) (2021). *OPOG Responses to EPA Comments on the 1Q2021 and 2Q2020 Reports, Omega Chemical Superfund Site, Operable Unit 1.* February 12.

USEPA. (2008). *Record of Decision for OU-1 Soils.*

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USEPA. (2020). Omega: Third Quarter 2020 Full Scale On-Site Soil Remedy – Quarterly Performance Evaluation Report, December 7. Email from Omer Shalev to Kyle King.

USEPA. (2021a). Omega: Omega: Interim Groundwater Containment Remedy – 2nd Quarter 2020 Quarterly Report, February 25. Email from Omer Shalev to Jaime Dinello.

USEPA. (2021b). Omega: Third Quarter 2020 Full Scale On-Site Soil Remedy – Quarterly Performance Evaluation Report, February 25. Email from Omer Shalev to Jaime Dinello.

TABLES

Table 1
Vapor Phase GAC Analytical Data Demonstrating Substantive Compliance With SCAQMD Regulations
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

SCAQMD Chemical-Specific Effluent Limit[1]			2,208	198	84	15	14	48	1,082	65
Sample Location	**Sample Date**	**Units**	**PCE**	**TCE**	**VC**	**11DCA**	**12DCA**	**CF**	**MeC**	**BEN**
OU-1 SVE GAC INFLUENT	1/8/2021	ppbv	72	3.3	1.3 U	1.3 U	1.3 U	1.3 U	13 U	1.3 U
OU-1 SVE GAC MIDPOINT	1/8/2021	ppbv	65	3.1	1.2 U	1.2 U	1.2 U	1.2 U	12 U	2.3
OU-1 SVE GAC EFFLUENT[2]	1/8/2021	ppbv	**9.1**	**1.4**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**12 U**	**1.2 U**
OU-1 SVE GAC INFLUENT	2/12/2021	ppbv	56	3.5	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U
OU-1 SVE GAC MIDPOINT	2/12/2021	ppbv	3.1	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	13 U	1.3 U
OU-1 SVE GAC EFFLUENT[2]	2/12/2021	ppbv	**73**	**3.0**	**1.2 U**	**1.2 U**	**1.2 U**	**1.2 U**	**12 U**	**2.1**
OU-1 SVE GAC INFLUENT	3/12/2021	ppbv	49	3.2	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U
OU-1 SVE GAC MIDPOINT	3/12/2021	ppbv	3.8	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	9.9 U	0.99 U
OU-1 SVE GAC EFFLUENT[2]	3/12/2021	ppbv	**16**	**1.0 U**	**1.0 U**	**1.0 U**	**1.0 U**	**1.0 U**	**10 U**	**1.0 U**
Compliance with Effluent Limits?			**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**

Notes:

1. SCAQMD effluent limits are derived from the Health Risk Assessment (CDM Smith, 2015).

2. Bold text indicates vapor effluent results from the VGAC effluent required to meet SCAQMD HRA chemical specific limits shown in the table.

OU-1 SVE GAC Influent = VOC-laden vapor sample collected at the influent to the lead VGAC vessel.

OU-1 SVE GAC Midpoint = Partially treated vapor sample collected between the lead and lag VGAC vessels.

OU-1 SVE GAC Effluent = Fully treated vapor sample collected at the effluent from the lag (polishing) VGAC vessel.

U - Not detected above reporting limit listed

PCE - Tetrachloroethene
TCE - Trichloroethene
VC - Vinyl Chloride
11DCA - 1,1-Dichloroethane
12DCA - 1,2-Dichloroethane
CF - Chloroform
MeC - Methylene Chloride
BEN - Benzene

Table 2
Status of Indoor Air Sampling at Buildings Wholly or Partially within the OU-1 Phase 1a Boundary
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Building	Location Designation	Building Occupancy	Vacancy Status Verification	Current Monitoring Status	Date Last Sampled	Next Planned Sampling Date	Sampling Rationale
Sunland Enterprises (Former Omega Administration)	Within OU-1 Boundary	Occupied	Verified in person 1/15/2021	Annual	1/15/2021	January 2022	- Sampled as part of Remedial Investigation - Building unoccupied between 2005 and 2018. The building is currently leased to Sunland Enterprises, Division of E&A Car Wash Systems - EPA has not requested indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2011 - Building was incorporated into the annual monitoring program proposed in the 2020 Indoor Air Quality Sampling Plan (submitted to EPA on November 26, 2019)
Bishop	Partly within OU-1 Boundary	Occupied	Verified in person 1/14/2021	Semi-Annual	1/14/2021	July 2021	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from quarterly to semi-annual (approved by EPA in letter to OPOG on November 28, 2018).
Madsen Roofing	Within OU-1 Boundary	Partially Occupied	Verified in person 1/14/2021	Annual	1/14/2021	January 2022	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from semi-annual to annual (approved by EPA in letter to OPOG on November 28, 2018).
Star City Auto Body	Within OU-1 Boundary	Occupied	Verified in person 1/14/2021	Annual	1/14/2021	January 2022	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from semi-annual to annual (approved by EPA in letter to OPOG on November 28, 2018).
Terra Pave	Within OU-1 Boundary	Partially Occupied	Verified in person 1/14/2021	Semi-Annual	1/14/2021	July 2021	- Required indoor air sampling under the 2009 AOC - Under influence of soil vapor extraction since 2010 - Reduced monitoring frequency from quarterly to semi-annual (approved by EPA in letter to OPOG on November 28, 2018).

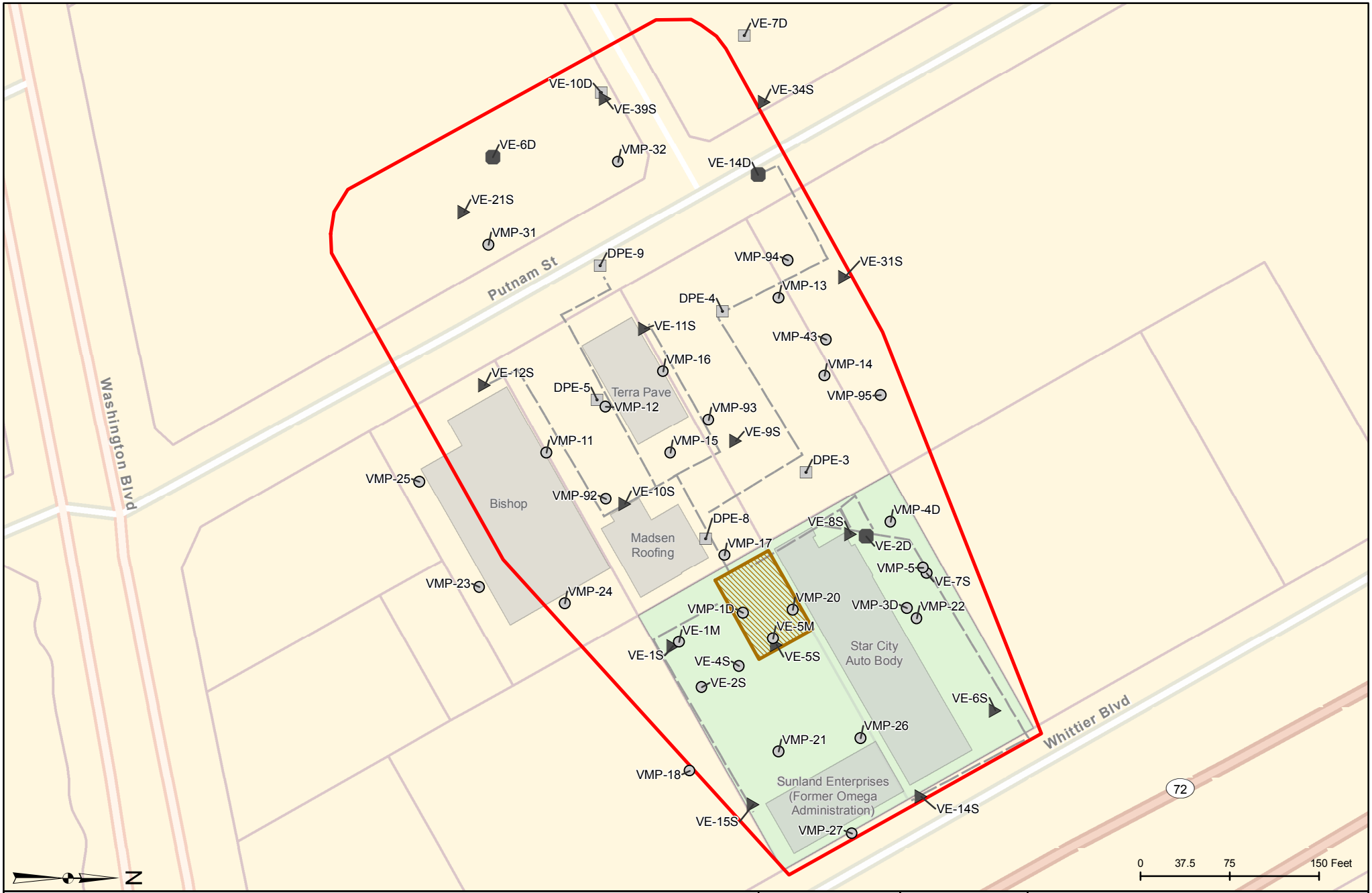
FIGURES

OU-1 Boundary
Building Currently Commercially/Industrially Occupied
Building Currently Vacant
Former Omega Chemical Property Boundary

ddms
de maximis, inc.

Reviewed By: MH
Drawn By: LEM
Date: 1/22/2019

Figure 1
OU-1 Location Map
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
12504/12512 East Whittier Boulevard
Whittier, California



- Shallow Vapor Extraction Well (<30ft bgs)
- Deep Vapor Extraction Well (>30ft bgs)
- Dual Phase Extraction Well
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Vapor Monitoring Probe
- OU-1 SVE Treatment Plant
- OU-1 Boundary
- Former Omega Chemical Property Boundary
- Conveyance Piping

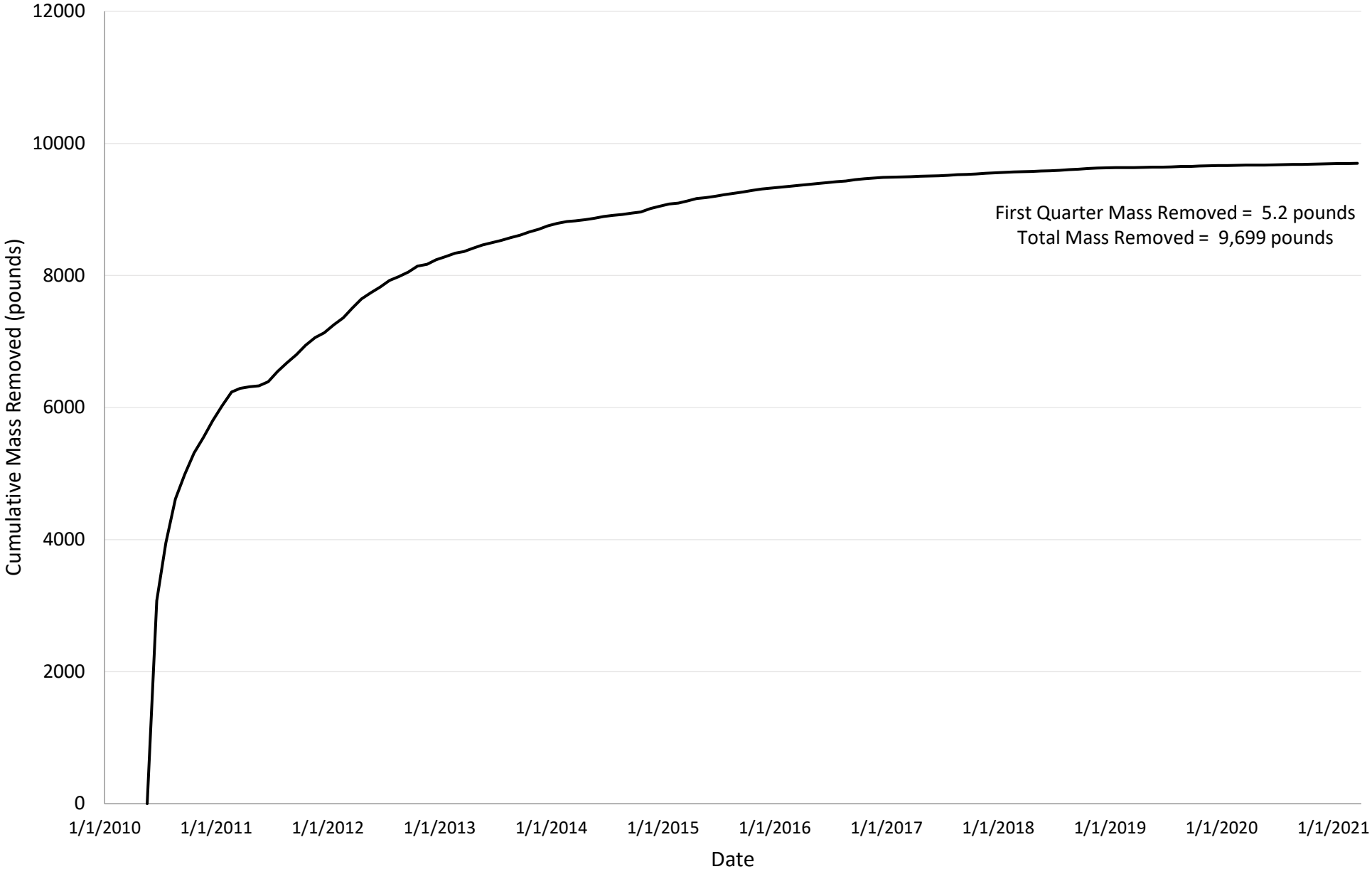
Not all conveyance piping shown. Locations are approximate.

ddms
de maximis, inc.

Reviewed By: LM
Drawn By: KM
Date: 2/12/2019

Figure 2
OU-1 SVE System Location Map
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site

Figure 3
OU-1 SVE System Cumulative Mass Removed
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021



Shallow Vapor Monitoring Probe Analytical Data and Cleanup Level

Location	Sample Type	Sample Date	PCE
		Cleanup Level	470
VMP-11-30	ORIG	1/19/2021	640
VMP-12-30	ORIG	1/19/2021	8.4 U
VMP-15-30	ORIG	1/19/2021	38
VMP-15-30	DUP	1/19/2021	39
VMP-16-30	ORIG	1/19/2021	8.3
VMP-17-30	ORIG	1/19/2021	8.7 U
VMP-17-30	DUP	1/19/2021	8.1 U
VMP-18-30	ORIG	1/21/2021	380
VMP-18-30	DUP	1/21/2021	380
VMP-20-30	ORIG	1/21/2021	8.1 U
VMP-21-30	ORIG	1/21/2021	82
VMP-22-30	ORIG	1/19/2021	43
VMP-24-30	ORIG	1/18/2021	510
VMP-26-30	ORIG	1/21/2021	8.3 U
VMP-27-30	ORIG	1/19/2021	8 U
VMP-31-24	ORIG	1/18/2021	8.8
VMP-32-24	ORIG	1/18/2021	16
VMP-43-24	ORIG	1/18/2021	11
VMP-94-24	ORIG	1/18/2021	8.8 U

All concentrations in units of ug/m3
U = Not detected above reporting limit listed
Shallow = between 0 and 30 feet below ground surface
ORIG = original sample
DUP = field duplicate
The last two digits of each Location indicate the depth of the sample in feet
PCE = Tetrachloroethene

- Data rejected
- < 470 ug/m3 at all sampled depths; achieves cleanup level for PCE
- > 470 ug/m3 at any sampled depth; does not achieve cleanup level for PCE
- Building Currently Commercially/ Industrially Occupied
- OU-1 Boundary
- Former Omega Property

1. Shallow Vapor Monitoring Probes are installed between 0 and 30 feet below land surface.

ddms
de maximis, inc.

Reviewed By: MS
Drawn By: KM
Date: 4/13/2021

Figure 4
PCE Concentrations in Shallow Soil Gas[1] Demonstrating Compliance with Cleanup Level
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2021

Shallow Vapor Monitoring Probe Analytical Data and Cleanup Level

Location	Sample Type	Sample Date	TCE
		Cleanup Level	1300
VMP-11-30	ORIG	1/19/2021	34 J
VMP-12-30	ORIG	1/19/2021	6.6 UJ
VMP-15-30	ORIG	1/19/2021	6.3 UJ
VMP-15-30	DUP	1/19/2021	27 J
VMP-16-30	ORIG	1/19/2021	6.5 UJ
VMP-17-30	ORIG	1/19/2021	6.9 UJ
VMP-17-30	DUP	1/19/2021	6.4 UJ
VMP-18-30	ORIG	1/21/2021	50 J
VMP-18-30	DUP	1/21/2021	49 J
VMP-20-30	ORIG	1/21/2021	6.4 UJ
VMP-21-30	ORIG	1/21/2021	10 J
VMP-22-30	ORIG	1/19/2021	6.6 UJ
VMP-24-30	ORIG	1/18/2021	7.0 J,N
VMP-26-30	ORIG	1/21/2021	6.6 UJ
VMP-27-30	ORIG	1/19/2021	6.4 UJ
VMP-31-24	ORIG	1/18/2021	7.0 UJ
VMP-32-24	ORIG	1/18/2021	6.8 UJ
VMP-43-24	ORIG	1/18/2021	6.8 UJ
VMP-94-24	ORIG	1/18/2021	6.9 UJ

All concentrations in units of ug/m3
UJ = The analyte was analyzed for but was not detected. The reported quantitation limit may be higher than reported.
J = results are qualified as estimated.
J,N = quantitatively estimated and presumptively present.
Shallow = between 0 and 30 feet below ground surface
The last two digits of each Location indicate the depth of the sample in feet
ORIG = original sample
DUP = field duplicate
TCE = Trichloroethene

- Data rejected
- < 1300 ug/m3 at all sampled depths; achieves cleanup level for TCE
- > 1300 ug/m3 at any sampled depth; does not achieve cleanup level for TCE
- Building Currently Commercially/ Industrially Occupied
- OU-1 Boundary
- Former Omega Property

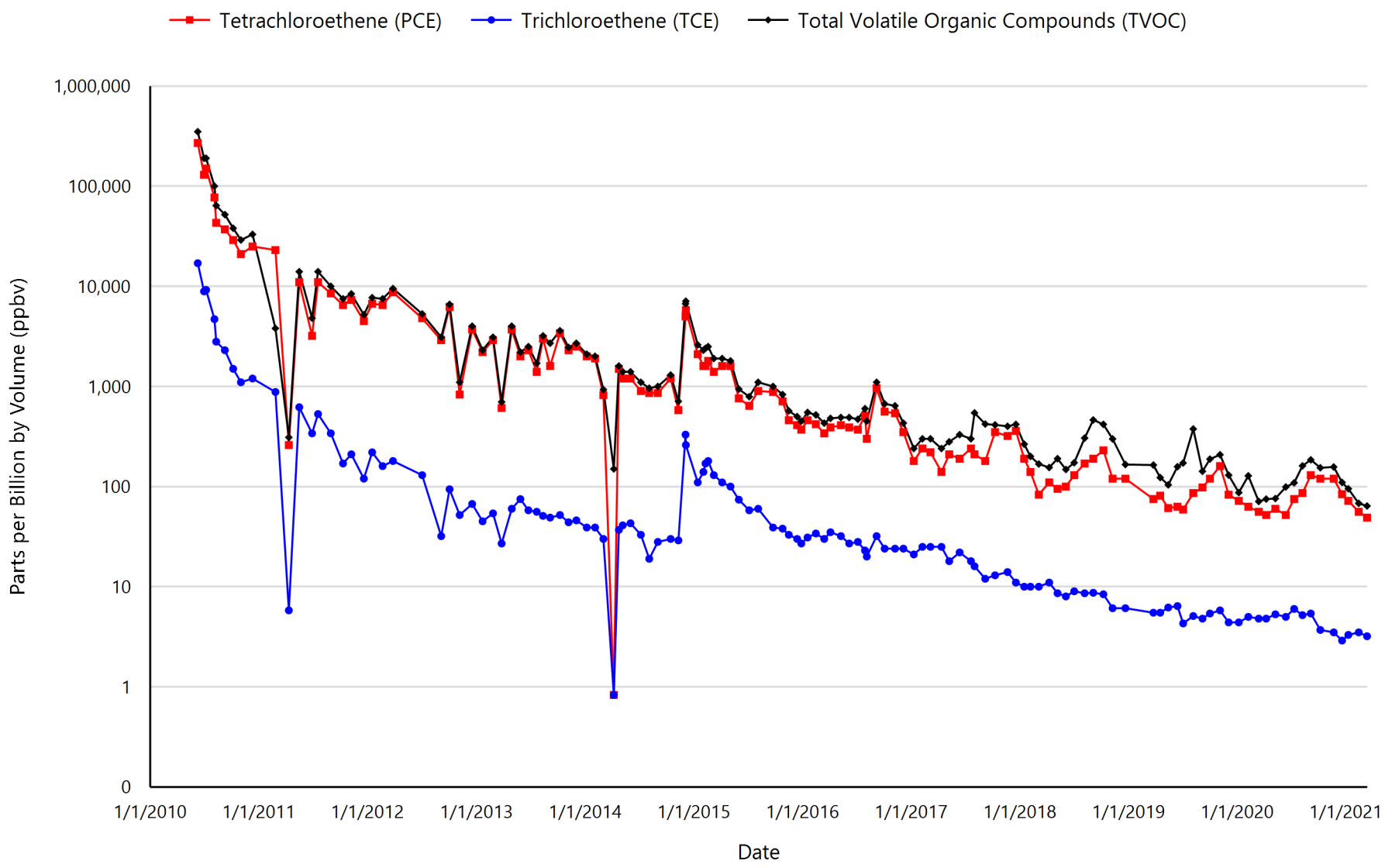
1. Shallow Vapor Monitoring Probes are installed between 0 and 30 feet below land surface.

ddms
de maximis, inc.

Reviewed By: MS
Drawn By: KM
Date: 4/14/2021

Figure 5
TCE Concentrations in Shallow Soil Gas[1] Demonstrating Compliance with Cleanup Level
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2021

Figure 6
Vapor Phase GAC Influent Concentrations
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

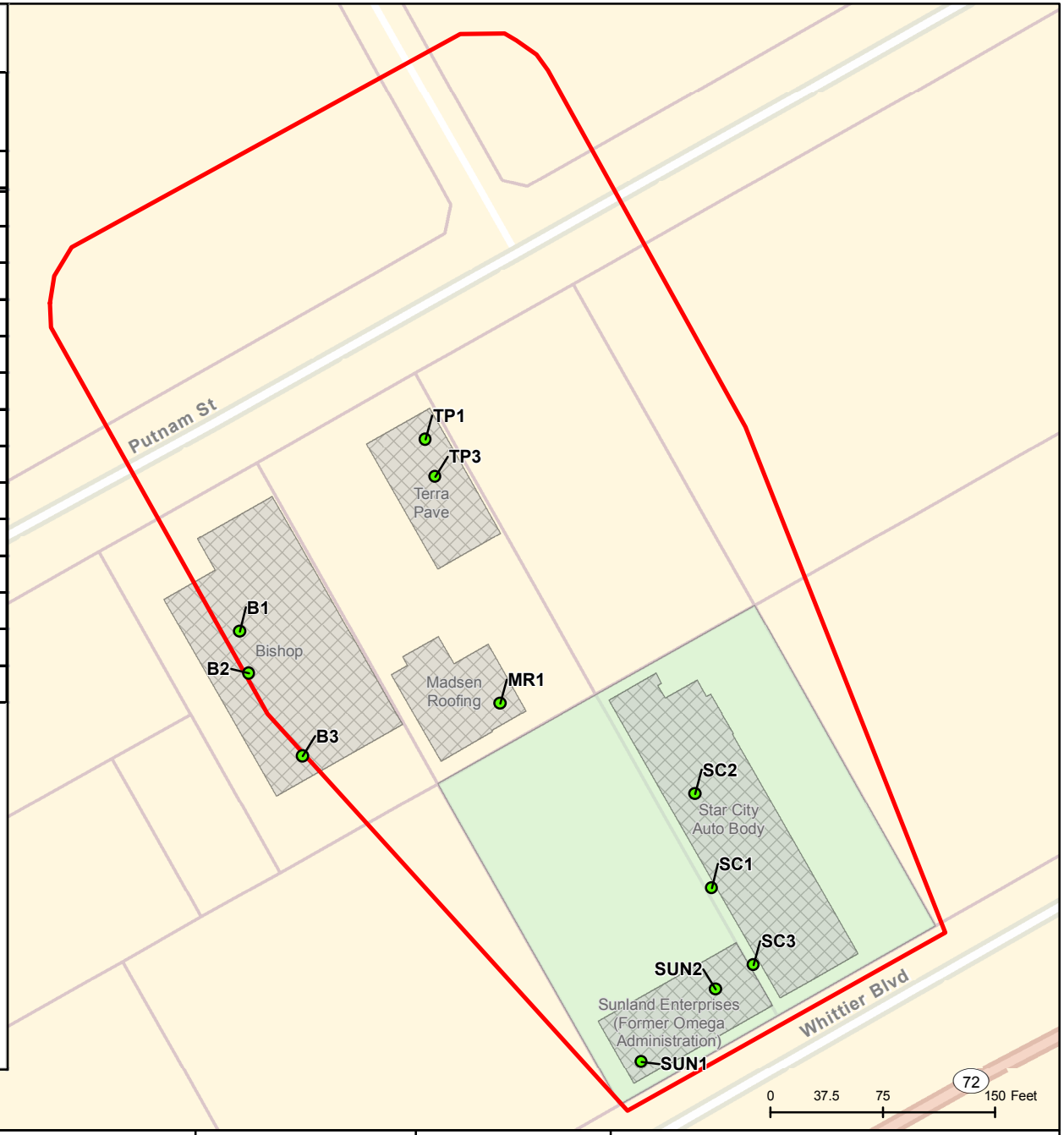


Indoor Air Sampling Results

Sample ID	Sample Type	Date	PCE		TCE
RSLs (Industrial/Residential)			47/11[1]	2.0/0.46[2]	3/0.48[1,3]
B1	ORIG	1/14/2021	0.25		0.18 U
B1	DUP	1/14/2021	0.26		0.18 U
B2	ORIG	1/14/2021	0.35		0.18 U
B3	ORIG	1/14/2021	0.26		0.18 U
MR1	ORIG	1/14/2021	0.25		0.17 U
SC1	ORIG	1/14/2021	0.27		0.17 U
SC2	ORIG	1/14/2021	0.44 U		0.35 U
SC2	DUP	1/14/2021	0.45 U		0.35 U
SC3	ORIG	1/14/2021	0.24		0.16 U
SUN1	ORIG	1/14/2021	0.45		0.18 U
SUN2	ORIG	1/14/2021	0.50		0.18 U
TP1	ORIG	1/14/2021	0.80		0.18 U
TP1	SPLIT	1/14/2021	0.67		0.054 U
TP3	ORIG	1/14/2021	2.0		0.18 U

1. http://www.epa.gov/region9/superfund/prg/
2. https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA_Note_3_August-2017.pdf
3. http://www.dtsc.ca.gov/AssessingRisk/upload/HHRA_Note5-pdf.pdf. DTSC generally relies on the EPA Region 9 RSLs for TCE in indoor air.

ug/m3 = micrograms per cubic meter of air
RSL = Regional Screening Level
PCE = Tetrachloroethene
TCE = Trichloroethene
U = chemical not detected. Lab detection limit for chemical is listed.
ORIG = original sample
DUP = field duplicate
SPLIT = split sample



N

Indoor Air Sample that achieves USEPA Industrial RSLs
OU-1 Boundary
Former Omega Chemical Property Boundary
Building Currently Commercially/Industrially Occupied; Sampled This Quarter
Building Currently Commercially/Industrially Occupied; Not Sampled This Quarter

ddms
de maximis, inc.

Reviewed By: MS
Drawn By: KM
Date: 4/13/2021

Figure 7
Indoor Air Concentrations
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2021

ATTACHMENT A

OU-1 SVE System Operational Data

Attachment A, Table A-1
OU-1 SVE System Operational Data Demonstrating Substantive Compliance With SCAQMD Operational Limits
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

SCAQMD Limit[4]				**1280**	**145**				**15**			
HRA Changeout Criteria								**50[3]**		**90[3]**		
Date	**Interval Run Time (hr)**	**Up Time[5] (%)**	**Influent Vapor Relative Humidity (%)**	**Influent Vapor Flow Rate (SCFM)**	**VGAC Influent Vapor Temperature (°F)**	**VGAC Effluent Vapor Temperature (°F)**	**VGAC Influent PID Measurement (ppmv)**	**VGAC Midpoint PID Measurement (ppmv)**	**VGAC Effluent PID Measurement (ppmv)**	**Lead VGAC Efficiency[1] (%)**	**Overall VGAC Efficiency[2] (%)**	**Mass Removed (lbs, monthly total)**
1/8/2021	239	100	76.2	1085	104.7	88.1	1.4	0.2	0.2	---	---	1.9
1/15/2021	167	99	76.7	1065	103.7	89.8	2.0	0.2	0.3	---	---	
1/21/2021	145	100	75.9	1068	104.9	92.2	9.8	1.3	0.9	---	---	
1/29/2021	164	86	79.9	1112	100.3	79.2	2.0	0.4	0.2	---	---	
2/5/2021	169	100	72.7	1086	103.5	90.9	1.4	0	0.1	---	---	1.7
2/12/2021	168	100	67.7	1048	105.4	89.9	3.5	0.8	0.8	---	---	
2/19/2021	166	99	77.6	1099	103.9	82.5	9.2	0.4	0.2	---	---	
2/26/2021	170	100	75.3	1103	105.6	93.4	1.1	0.9	0.4	---	---	
3/5/2021	168	100	82.8	1037	106.3	91.8	8.5	0.9	0.7	---	---	1.6
3/12/2021	166	99	78.6	1124	104.8	86.5	2.3	0.3	0.3	---	---	
3/19/2021	169	100	72.1	1075	105.1	93.4	1.0	0.1	0	---	---	
3/29/2021	238	99	77.9	1059	107.1	93.0	2.1	0.5	0.2	---	---	
1st Qtr 2021 Average		**99**	**76.1**	**1080**	**104.6**	**89.2**	**3.7**	**0.5**	**0.4**	**---**	**---**	**1.7**
											Total Mass Removed 1st Qtr 2021	**5.2**
Compliance with SCAQMD Limits?				**YES**	**YES**				**YES**			
Carbon Changeout Required This Qtr?								**NO**		**NO**		

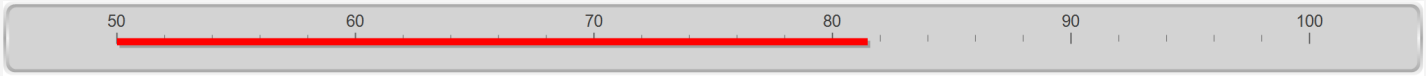
Notes:

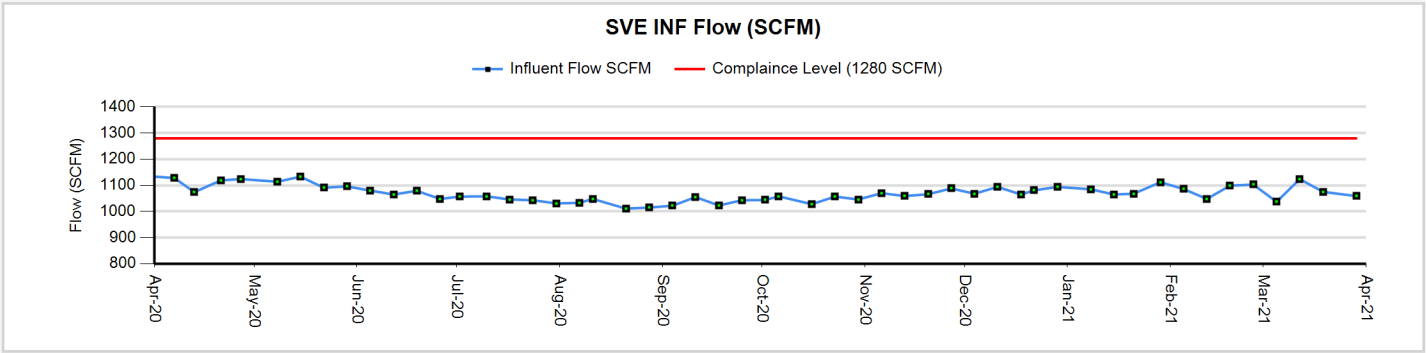
°F = degrees Fahrenheit
PID = photoionization detector
SCFM = Standard Cubic Feet per Minute
Qtr = quarter
SCAQMD = South Coast Air Quality Management District
VGAC = vapor phase granular activated carbon
ppmv = parts per million by volume as hexane
Hr = Hour
lbs = pounds

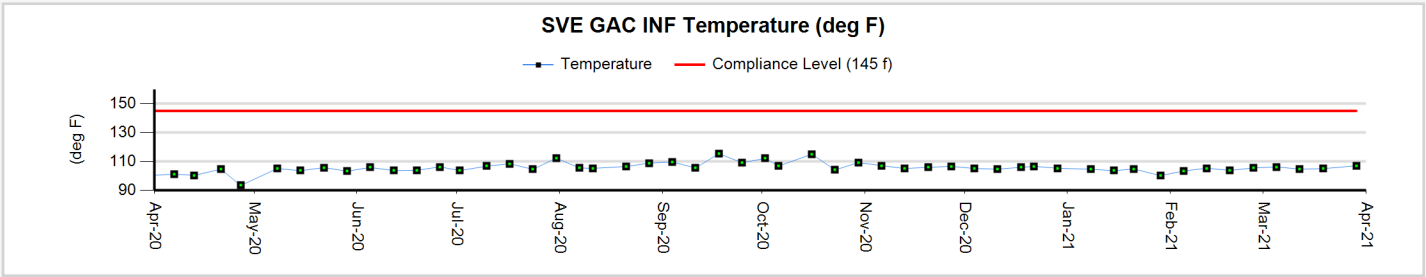
1. Lead VGAC efficiency is calculated by the PID readings between the influent and midpoint. The lead VGAC efficiency is only calculated if the influent and midpoint PID readings exceed 50 ppmv as hexane, see Note 3.
2. Overall VGAC efficiency is calculated by the PID readings between the influent and effluent. The overall VGAC efficiency is only calculated if the influent and effluent PID readings exceed 50 ppmv as hexane, see Note 3.
3. Carbon changeouts are required when the efficiency across the lead VGAC vessel drops below 90% AND the midpoint concentration exceeds 50 ppmv as hexane, by PID during the same sampling event.
4. Limits are derived from the Health Risk Assessment (CDM Smith, 2015a).
5. Up Time is calculated as the percentage of time the system is operating between the date listed and the previous measurement date.

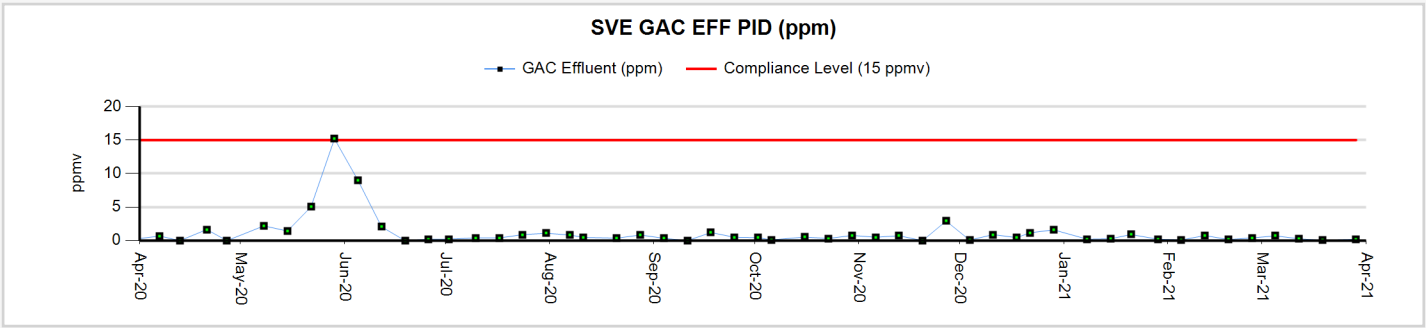
Attachment A, Figure A-1
OU-1 SVE System Operational Data (Rolling One Year)

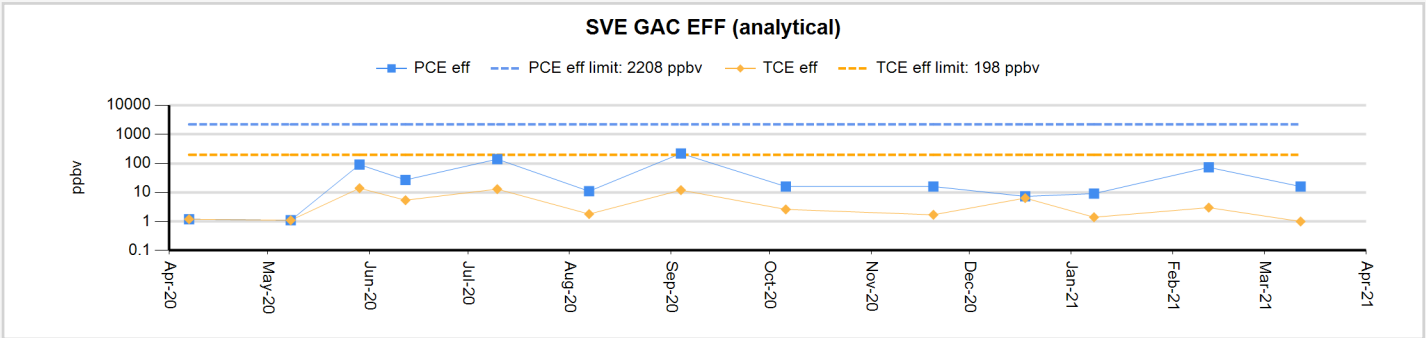
% Efficiency (PID) Across GAC Primary

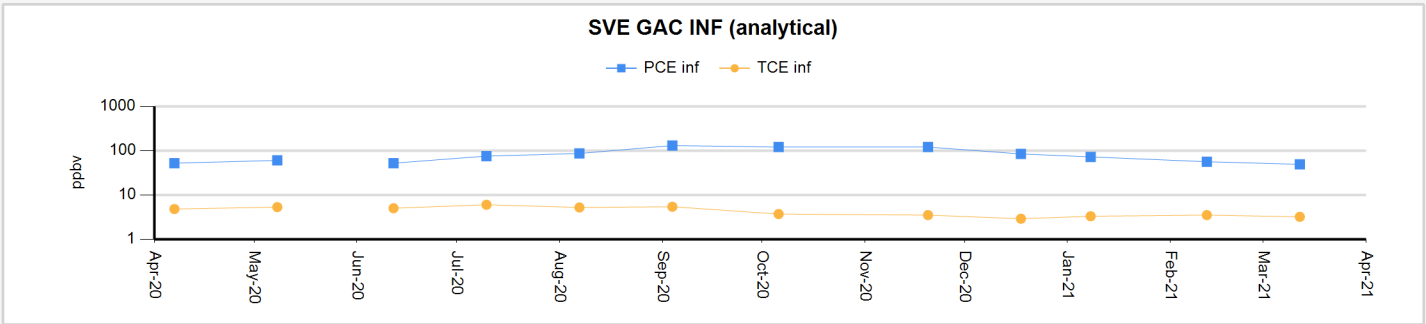












Kyle King

From: Reed, Alesandra F. <reedaf@cdmsmith.com>
Sent: Thursday, April 8, 2021 7:50 PM
To: Kyle King; clucas@ddmsinc.com
Cc: Day, Maria L.
Subject: Omega: SVE OU-1 January 2021 GAC Assessment
Attachments: Omega OU-1 SVE GAC Changeout Assessment_January 2021.xlsx

**** WARNING EXTERNAL SENDER ****

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of January 2021, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of January, the OU-1 SVE system did not meet the conditions for change-out presented in the HRA and is therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

OU-1 SVE GAC Assessment – Based on Samples Collected January 8, 2021					
	Concentration (ppbv)				
Parameter	**Influent**	**Midpoint**	**Effluent**	**HRA Effluent Limit**	**Below 2015 HRA Limit?**
1,1,1-Trichloroethane (TCA)	4	ND	5.2	34	Yes
1,1-Dichloroethane	ND	ND	ND	15	Yes
1,1-Dichloroethene	1.5	ND	1.5	1,243	Yes
1,2-Dichloroethane	ND	ND	ND	14	Yes
Benzene	ND	2.3	ND	65	Yes
Carbon disulfide	ND	32	ND	1,007	Yes
Chloroform	ND	ND	ND	48	Yes
Freon 11	ND	ND	ND	1,801	Yes
Freon 113	4.3	ND	10	9,799	Yes
Freon 12	ND	ND	ND	775	Yes
Isopropyl Alcohol (Isopropanol)	ND	6.8	ND	60	Yes
Methyl ethyl ketone	10	13	17	75	Yes
Methylene chloride	ND	ND	ND	1,082	Yes

o-Xylene	ND	ND	ND	21	Yes
Tetrachloroethene (PCE)	72	65	9.1	2,208	Yes
TNMOC ref. to Heptane (MW=100)	340	1200	120	17,405	Yes
Toluene	ND	ND	ND	47	Yes
Trichloroethene (TCE)	3.3	3.1	1.4	198	Yes
Vinyl chloride	ND	ND	ND	84	Yes

If you have any questions or would like to discuss the data please feel free to reach out.

Thanks!

Alesandra

Alesandra Reed, PE
Environmental Engineer
CDM Smith
9430 Research Blvd., Suite 1-200, Austin, TX 78759
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Kyle King

From: Reed, Alesandra F. <reedaf@cdmsmith.com>
Sent: Thursday, April 8, 2021 7:51 PM
To: clucas@ddmsinc.com; Kyle King
Cc: Day, Maria L.
Subject: OU-1 SVE February 2021 GAC Assessment
Attachments: Omega OU-1 SVE GAC Changeout Assessment_February 2021.xlsx

**** WARNING EXTERNAL SENDER ****

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of February 2021, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of February, the OU-1 SVE system did not meet the conditions for change-out presented in the HRA and is therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

OU-1 SVE GAC Assessment – Based on Samples Collected February 12, 2021					
	Concentration (ppbv)				
Parameter	**Influent**	**Midpoint**	**Effluent**	**HRA Effluent Limit**	**Below 2015 HRA Limit?**
1,1,1-Trichloroethane (TCA)	2.2	3	ND	34	Yes
1,1-Dichloroethane	ND	ND	ND	15	Yes
1,1-Dichloroethene	1.6	1.7	ND	1,243	Yes
1,2-Dichloroethane	ND	ND	ND	14	Yes
Benzene	ND	ND	2.1	65	Yes
Carbon disulfide	ND	ND	ND	1,007	Yes
Chloroform	ND	ND	ND	48	Yes
Freon 11	1.3	ND	ND	1,801	Yes
Freon 113	3.8	5.4	ND	9,799	Yes
Freon 12	ND	ND	ND	775	Yes
Isopropyl Alcohol (Isopropanol)	ND	ND	ND	60	Yes
Methyl ethyl ketone	ND	ND	17	75	Yes
Methylene chloride	ND	ND	ND	1,082	Yes

o-Xylene	ND	ND	ND	21	Yes
Tetrachloroethene (PCE)	56	3.1	73	2,208	Yes
TNMOC ref. to Heptane (MW=100)	240	27	2000	17,405	Yes
Toluene	ND	ND	1.5	47	Yes
Trichloroethene (TCE)	3.5	ND	3	198	Yes
Vinyl chloride	ND	ND	ND	84	Yes

If you have any questions or would like to discuss the data please feel free to reach out.

Thanks!

Alesandra

Alesandra Reed, PE
Environmental Engineer
CDM Smith
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Kyle King

From: Reed, Alesandra F. <reedaf@cdmsmith.com>
Sent: Thursday, April 8, 2021 7:55 PM
To: Kyle King; clucas@ddmsinc.com
Cc: Day, Maria L.
Subject: OMEGA SVE March GAC Assessment
Attachments: Omega OU-1 SVE GAC Changeout Assessment_March 2021.xlsx

**** WARNING EXTERNAL SENDER ****

Team,

We evaluated the performance of the GAC used by the OU-1 SVE system for the month of March 2021, relative to the conditions listed in the Health Risk Assessment (HRA) (CDM Smith 2015). These conditions must be met to remain in substantive compliance with SCAQMD requirements.

During the month of March, the OU-1 SVE system did not meet the conditions for change-out presented in the HRA and is therefore substantively compliant:

- None of the toxic air contaminants listed in Condition #14 of the HRA were detected in the effluent above their respective effluent limit.
- The OU-1 SVE system did not meet the two criteria for replacement of the lead GAC vessel (listed under Condition #12 of the HRA), and therefore no GAC replacement was required.
- No other carcinogenic air contaminants beyond those listed in Condition #14 of the HRA were detected in effluent above 10 ppbv, and therefore per Condition #16, no toxic risk assessment was required.

We also evaluated all the analytical and PID data and, based on our professional judgement, we do not recommend a voluntary changeout of the lead vessel GAC at this time.

OU-1 SVE GAC Assessment – Based on Samples Collected March 12, 2021					
	Concentration (ppbv)				
Parameter	**Influent**	**Midpoint**	**Effluent**	**HRA Effluent Limit**	**Below 2015 HRA Limit?**
1,1,1-Trichloroethane (TCA)	1.5	3.5	ND	34	Yes
1,1-Dichloroethane	ND	ND	ND	15	Yes
1,1-Dichloroethene	1.4	1.5	ND	1,243	Yes
1,2-Dichloroethane	ND	ND	ND	14	Yes
Benzene	ND	ND	ND	65	Yes
Carbon disulfide	ND	ND	ND	1,007	Yes
Chloroform	ND	ND	ND	48	Yes
Freon 11	ND	1.1	1.2	1,801	Yes
Freon 113	3.8	6.1	2	9,799	Yes
Freon 12	ND	ND	ND	775	Yes
Isopropyl Alcohol (Isopropanol)	5	4.8	ND	60	Yes
Methyl ethyl ketone	ND	29	ND	75	Yes
Methylene chloride	ND	ND	ND	1,082	Yes

o-Xylene	ND	ND	ND	21	Yes
Tetrachloroethene (PCE)	49	3.8	16	2,208	Yes
TNMOC ref. to Heptane (MW=100)	140	75	230	17,405	Yes
Toluene	ND	ND	ND	47	Yes
Trichloroethene (TCE)	3.2	ND	ND	198	Yes
Vinyl chloride	ND	ND	ND	84	Yes

If you have any questions or would like to discuss the data please feel free to reach out.

Thanks!

Alesandra

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Environmental Engineer
CDM Smith
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ATTACHMENT B

Summary of VEW and DPE Concentrations and Operational Data

Attachment B, Table B-1
VEW / DPE Quarterly Operational Summary and Calculated Mass Removed
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Location	Measurement Date	Shallow / Deep	Flow (SCFM)	PID (ppmv)	Analytical Total VOCs[2] (ug/m3)	Temperature (deg. F)	Vacuum (in H_2O, gauge)	Relative Humidity (%)	Calculated Mass Removed[1] (lbs)
VE-1S	1/8/2021	SHALLOW	115.0	0.0	--	71.5	-20.0	51.2	--
	2/12/2021	SHALLOW	49.0	0.0		76.1	-20.0	33.0	
	3/12/2021	SHALLOW	33.0	0.1		72.5	-16.0	44.7	
VE-5S	1/8/2021	SHALLOW	--	0.0	--	75.4	-54.0	46.8	--
	2/12/2021	SHALLOW	--	0.0		76.3	-66.0	30.8	
	3/12/2021	SHALLOW	--	0.1		68.7	-60.0	37.5	
VE-6S	1/8/2021	SHALLOW	85.0	0.0	--	75.5	-28.0	53.8	--
	2/12/2021	SHALLOW	71.0	0.0		75.9	-28.0	38.7	
	3/12/2021	SHALLOW	76.0	0.1		73.0	-26.0	36.8	
VE-8S	1/8/2021	SHALLOW	161.0	0.1	--	76.7	-41.0	40.2	--
	2/12/2021	SHALLOW	165.0	0.0		77.0	-44.0	29.9	
	3/12/2021	SHALLOW	170.0	0.2		74.2	-47.0	29.5	
VE-9S	1/8/2021	SHALLOW	14.0	0.0	--	71.1	-49.0	47.0	--
	2/12/2021	SHALLOW	15.0	0.0		78.7	-44.0	26.6	
	3/12/2021	SHALLOW	15.0	0.1		72.6	-48.0	31.6	
VE-10S	1/8/2021	SHALLOW	80.0	0.2	--	74.0	-42.0	40.5	--
	2/12/2021	SHALLOW	53.0	0.0		76.2	-42.0	31.8	
	3/12/2021	SHALLOW	40.0	0.1		75.0	-44.0	34.1	
VE-11S	1/8/2021	SHALLOW	176.0	0.1	--	74.9	-35.0	42.3	--
	2/12/2021	SHALLOW	162.0	0.0		76.2	-35.0	32.0	
	3/12/2021	SHALLOW	149.0	0.1		72.4	-39.0	35.6	
VE-12S	1/8/2021	SHALLOW	38.0	0.0	--	72.2	-30.0	48.6	--
	2/12/2021	SHALLOW	50.0	0.0		76.4	-28.0	31.6	
	3/12/2021	SHALLOW	54.0	0.1		75.5	-30.0	34.3	
VE-14S	1/8/2021	SHALLOW	--	0.1	--	75.4	-22.0	54.9	--
	2/12/2021	SHALLOW	46.0	0.0		75.8	-22.0	36.1	
	3/12/2021	SHALLOW	--	0.1		74.2	-22.0	38.2	
VE-15S	1/8/2021	SHALLOW	--	0.0	--	70.2	-36.0	52.4	--
	2/12/2021	SHALLOW	48.0	0.0		77.4	-38.0	29.3	
	3/12/2021	SHALLOW	31.0	0.1		72.5	-24.0	43.9	

Attachment B, Table B-1
VEW / DPE Quarterly Operational Summary and Calculated Mass Removed
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Location	Measurement Date	Shallow / Deep	Flow (SCFM)	PID (ppmv)	Analytical Total VOCs[2] (ug/m3)	Temperature (deg. F)	Vacuum (in H_2O, gauge)	Relative Humidity (%)	Calculated Mass Removed[1] (lbs)
DPE-3	1/8/2021	DEEP	160.0	1.5	--	70.1	-40.0	43.6	--
	2/12/2021	DEEP	--	0.8		78.1	-42.0	28.5	
	3/12/2021	DEEP	116.0	0.3		71.9	-42.0	37.3	
DPE-4	1/8/2021	DEEP	105.0	0.0	--	68.5	-28.0	51.2	--
	2/12/2021	DEEP	81.0	0.0		78.9	-26.0	30.4	
	3/12/2021	DEEP	85.0	0.1		72.3	-28.0	33.9	
DPE-5	1/8/2021	DEEP	109.0	0.0	--	66.9	-44.0	47.7	--
	2/12/2021	DEEP	106.0	0.0		86.9	-44.0	19.3	
	3/12/2021	DEEP	--	0.1		72.3	-46.0	34.9	
DPE-8	1/8/2021	DEEP	89.0	0.2	--	63.8	-32.0	59.9	--
	2/12/2021	DEEP	86.0	0.2		96.2	-30.0	15.1	
	3/12/2021	DEEP	84.0	0.2		69.9	-32.0	38.2	
DPE-9	1/8/2021	DEEP	71.0	0.1	--	65.5	-24.0	59.5	--
	2/12/2021	DEEP	75.0	0.0		89.8	-30.0	22.3	
	3/12/2021	DEEP	74.0	0.2		71.0	-34.0	38.7	
VE-2D	1/8/2021	DEEP	54.0	8.8	--	77.2	-32.7	44.1	--
	2/12/2021	DEEP	48.0	4.8		76.6	-30.7	32.9	
	3/12/2021	DEEP	47.0	1.6		78.8	-32.7	28.5	
VE-14D	1/8/2021	DEEP	83.0	0.2	--	67.7	-28.0	51.0	--
	2/12/2021	DEEP	86.0	0.0		83.7	-30.0	22.8	
	3/12/2021	DEEP	86.0	0.1		72.4	-30.0	35.6	

Notes:

DPE = dual phase extraction
ppmv = parts per million by volume
VOC = volatile organic compound
F = Fahrenheit
SCFM = standard cubic feet per minute
Shallow = between 0 and 30 feet below ground surface
lbs = pounds
ug/m3 = micrgrams per liter
Deep = between approximately 30 and 100 feet below ground surface
PID = photoionization detector
VE = vapor extraction
-- = Not measured

in H_2O, gauge = inches of water pressure, relative to atmospheric pressure; a negative gauge pressure is considered vaccum

1. Calculations are based on a subset of total VOC data from laboratory analyses of vapor samples, when collected, and measured flow rates from individual VEWs and the total system influent. Mass calculations are rounded to nearest 0.1 pound. If less than 0.05 pounds were calculated for the period, this will show as 0.0 pounds. VOCs that are not detected above the RLs are not included in the mass calculation. VEWs are not required to be sampled each quarter. If VEWs are sampled, it is based on operational considerations and to assist in mass calculations. All VEWs are sampled once per year.

2. A subset of VOC data used in mass removed calculations. TVOC concentrations are calculated using the detected concentrations from the following compounds: Tetrachloroethene (PCE), Trichloroethene (TCE), 1,1-Dichloroethene, Vinyl chloride, 1,1,1-Trichloroethane (TCA), 1,1-Dichloroethane, 1,2-Dichloroethane, Chloroform, Methylene chloride, Freon 11, Freon 12, Freon 113, Benzene, Toluene, o-Xylene, Carbon disulfide, Methyl ethyl ketone, Isopropyl Alcohol (Isopropanol), which account for approximately 98% of compounds in the data stream. No samples collected this quarter.

3. Only VE and DPE wells connected to the OU-1 SVE System are presented.

ATTACHMENT C

Summary of Vapor Monitoring Probe Concentrations and Vacuum

Attachment C, Table C-1
Shallow Vapor Monitoring Probe Summary of Quarterly Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Location	Sample Type	Sample Date	PCE	TCE	VC	11DCA	12DCA	CF	MeC	BEN
		Cleanup Levels	**470**	**1300**						
VMP-11-30	ORIG	1/19/2021	640	34 J	3.1 U	5.0 U	5.0 U	6.0 U	43 U	3.9 U
VMP-12-30	ORIG	1/19/2021	8.4 U	6.6 UJ	3.2 U	5.0 U	5.0 U	6.0 U	43 U	3.9 U
VMP-15-30	ORIG	1/19/2021	38	6.3 UJ	3.0 U	4.7 U	4.7 U	5.7 U	40 U	3.7 U
VMP-15-30	DUP	1/19/2021	39	27 J	3.0 U	4.7 U	4.7 U	5.7 U	41 U	3.7 U
VMP-16-30	ORIG	1/19/2021	8.3	6.5 UJ	3.1 U	4.9 U	4.9 U	5.9 U	42 U	3.9 U
VMP-17-30	ORIG	1/19/2021	8.7 U	6.9 UJ	3.3 U	5.2 U	5.2 U	6.2 U	44 U	4.1 U
VMP-17-30	DUP	1/19/2021	8.1 U	6.4 UJ	3.0 U	4.8 U	4.8 U	5.8 U	42 U	3.8 U
VMP-18-30	ORIG	1/21/2021	380	50 J	2.9 U	4.6 U	4.6 U	5.6 U	40 U	3.6 U
VMP-18-30	DUP	1/21/2021	380	49 J	3.1 U	4.8 U	4.8 U	5.8 U	42 U	3.8 U
VMP-20-30	ORIG	1/21/2021	8.1 U	6.4 UJ	3.0 U	4.8 U	4.8 U	5.8 U	41 U	3.8 U
VMP-21-30	ORIG	1/21/2021	82	10 J	3.2 U	5.1 U	5.1 U	6.2 U	44 U	4.0 U
VMP-22-30	ORIG	1/19/2021	43	6.6 UJ	3.1 U	5.0 U	5.0 U	6.0 U	42 U	3.9 U
VMP-24-30	ORIG	1/18/2021	510	7.0 J,N	3.2 UJ	5.1 UJ	5.1 UJ	6.1 UJ	44 UJ	4.0 UJ
VMP-26-30	ORIG	1/21/2021	8.3 U	6.6 UJ	3.1 U	5.0 U	5.0 U	6.0 U	42 U	6.6
VMP-27-30	ORIG	1/19/2021	8.0 U	6.4 UJ	3.0 U	4.8 U	4.8 U	5.8 U	41 U	3.8 U
VMP-31-24	ORIG	1/18/2021	8.8	7.0 UJ	3.3 U	5.3 U	5.3 U	6.4 U	45 U	4.2 U
VMP-32-24	ORIG	1/18/2021	16	6.8 UJ	3.2 U	5.1 U	5.1 U	6.2 U	44 U	4.0 U
VMP-43-24	ORIG	1/18/2021	11	6.8 UJ	3.2 U	5.1 U	5.1 U	6.2 U	44 U	4.0 U
VMP-94-24	ORIG	1/18/2021	8.8 U	6.9 UJ	3.3 U	5.2 U	5.2 U	6.3 U	45 U	4.1 U

Notes:

All concentrations in units of ug/m3

U = Not detected above reporting limit listed

UJ = The analyte was analyzed for but was not detected.

The reported quantitation limit may be higher than reported.

J = results are qualified as estimated.

J,N = quantitatively estimated and presumptively present.

Shallow = between 0 and 30 feet below ground surface

The last two digits of each location indicate the depth of the sample in feet

Cleanup Level exceedances highlighted in yellow

PCE = Tetrachloroethene

TCE - Trichloroethene

VC - Vinyl Chloride

11DCA - 1,1-Dichloroethane

12DCA - 1,2-Dichloroethane

CF - Chloroform

MeC - Methylene Chloride

BEN - Benzene

ORIG = original sample

DUP = field duplicate

Attachment C, Table C-2
Deep Vapor Monitoring Probe Summary of Quarterly Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Location	Sample Type	Sample Date	PCE	TCE	VC	11DCA	12DCA	CF	MeC	BEN
VMP-5-45	ORIG	1/19/2021	130	16 J	3.2 U	5.0 U	5.0 U	6.0 U	43 U	3.9 U
VMP-31-70[1]	--	--	--	--	--	--	--	--	--	--
VMP-32-60	ORIG	1/18/2021	38	6.2 UJ	2.9 U	4.6 U	4.6 U	5.6 U	40 U	3.7 U
VMP-92-70	ORIG	1/19/2021	3400	190 J	3.1 U	5.0 U	5.0 U	15	43 U	3.9 U
VMP-93-60	ORIG	2/9/2021	3400	39	5.2 U	8.2 U	8.2 U	19	71 U	6.5 U
VMP-94-60	ORIG	1/18/2021	51	6.4 UJ	3.1 U	4.8 U	4.8 U	5.8 U	42 U	3.8 U
VMP-95-60	ORIG	1/18/2021	110	6.6 UJ	3.1 U	5.0 U	5.0 U	6.0 U	43 U	3.9 U

Notes:

All concentrations in units of ug/m3

1. Unable to collect sample

U = Not detected above reporting limit listed

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit may be higher than reported.

J = results are qualified as estimated

Deep = greater than 30 feet below ground surface

The last two digits of each location indicate the depth of the sample in feet

ORIG = original sample

PCE = Tetrachloroethene

TCE - Trichloroethene

VC - Vinyl Chloride

11DCA - 1,1-Dichloroethane

12DCA - 1,2-Dichloroethane

CF - Chloroform

MeC - Methylene Chloride

BEN - Benzene

Attachment C, Table C-3
Shallow Vapor Monitoring Probe Vacuum Summary
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Location	Monitoring Point Depth (feet bgs)	Vapor Extraction Well ROI[1]	Measurement Date	Vacuum[2,3] (in H_2O, gauge)
VE-1M	36[4]	VE-1S, VE-5S	1/21/2021	-0.61
VE-2S	22	VE-1S, VE-5S	1/21/2021	-0.14
VE-4S	22	VE-1S, VE-5S	1/21/2021	-0.29
VE-5M	36[4]	VE-5S	1/21/2021	-0.87
VE-7S	30	VE-8S	1/19/2021	-0.28
VMP-11	30	VE-10S, VE-12S	1/19/2021	-0.50
VMP-12	30	VE-10S, VE-11S	1/19/2021	-1.11
VMP-13	30	VE-31S	1/19/2021	-0.26
VMP-14	30		1/19/2021	-0.07
VMP-15	30	VE-10S, VE-9S	1/19/2021	-0.65
VMP-16	30	VE-11S	1/19/2021	-1.95
VMP-17	30		1/19/2021	-1.22
VMP-18	30	VE-15S	1/21/2021	-0.05
VMP-20	30	VE-5S, VE-8S	1/21/2021	-0.42
VMP-21	30	VE-15S	1/21/2021	-0.17
VMP-22	30		1/19/2021	-0.22
VMP-23	30		1/18/2021	-0.04
VMP-24	30		1/18/2021	-0.08
VMP-25	30		1/18/2021	-0.48
VMP-26	30	VE-14S	1/21/2021	-0.04
VMP-27	30	VE-14S	1/19/2021	-0.03
VMP-31	6	VE-21S	1/18/2021	-0.01
	12	VE-21S	1/18/2021	-0.02
	24	VE-21S	1/18/2021	-0.04
VMP-32	6	VE-39S	1/18/2021	0.00
	12	VE-39S	1/18/2021	-0.01
	24	VE-39S	1/18/2021	-0.04
VMP-43	6	VE-31S	1/18/2021	-0.25
	12	VE-31S	1/18/2021	-0.23
	24	VE-31S	1/18/2021	-0.01
VMP-94	6	VE-31S	1/18/2021	-0.14
	12	VE-31S	1/18/2021	-0.16
	24	VE-31S	1/18/2021	-0.26

Notes:

bgs = below ground surface

1. ROI = Estimated design radius of influence by the vapor extraction well (VEW) listed. If no VEW is listed, then the VMP is not within the design ROI of a VEW.

2. in H2O, gauge = inches of water pressure relative to atmospheric pressure. A negative gauge pressure is considered vacuum.

3. Yellow highlighted cells indicate a VMP within the design ROI of a VEW that did not meet the target vacuum of -0.1 in H2O at the time the monitoring was conducted.

4.These wells are considered part of shallow vapor monitoring as their well screen intervals are 26 - 36 feet below ground surface.

Attachment C, Table C-4
Deep Vapor Monitoring Probe Vacuum Summary
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Location	Monitoring Point Depth (feet bgs)	Vapor Extraction Well ROI[1]	Measurement Date	Vacuum[2,3] (in H_2O, gauge)
VMP-1D	70	DPE-8	1/21/2021	-0.66
VMP-3D	70	VE-2D	1/19/2021	-0.71
VMP-4D	70	DPE-3, VE-2D	1/19/2021	-1.79
VMP-5	45	VE-2D	1/19/2021	-0.21
VMP-31	40	VE-6D	1/18/2021	-3.39
	55	VE-6D	1/18/2021	-0.13
	60	VE-6D	1/18/2021	0.00
	70	VE-6D	1/18/2021	-0.11
VMP-32	40	VE-10D	1/18/2021	0.00
	55	VE-10D	1/18/2021	-0.16
	60	VE-10D	1/18/2021	-0.05
	70	VE-10D	1/18/2021	-0.06
VMP-92	50	DPE-5	1/19/2021	0.00
	60	DPE-5	1/19/2021	-1.09
	70	DPE-5	1/19/2021	-0.95
VMP-93	50		1/19/2021	-0.98
	60		1/19/2021	-1.20
	70		1/19/2021	-1.22
VMP-94	40	DPE-4, VE-14D	1/18/2021	-0.31
	50	DPE-4, VE-14D	1/18/2021	-0.44
	60	DPE-4, VE-14D	1/18/2021	-1.48
	70	DPE-4, VE-14D	1/18/2021	-1.08
VMP-95	50		1/18/2021	-9.99
	60		1/18/2021	-2.40
	70		1/18/2021	-1.16

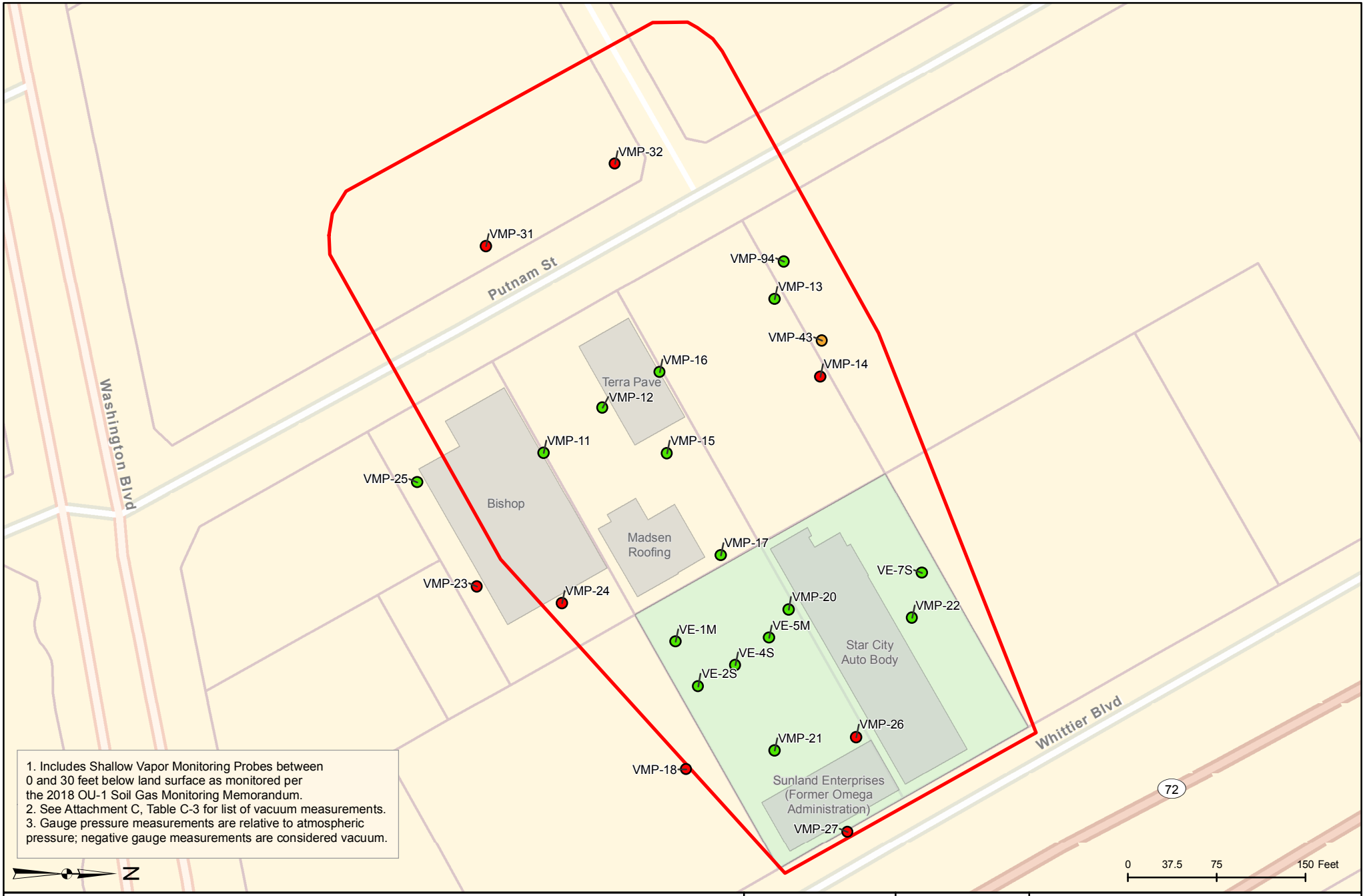
Notes:

bgs = below ground surface

1. ROI = Estimated design radius of influence by the vapor extraction well (VEW) listed. If no VEW is listed, then the VMP is not within the design ROI of a VEW.

2. in H2O, gauge = inches of water pressure relative to atmospheric pressure. A negative gauge pressure is considered vacuum.

3. Yellow highlighted cells indicate a VMP within the design ROI of a VEW that did not meet the target vacuum of -0.1 in H2O at the time the monitoring was conducted.



1. Includes Shallow Vapor Monitoring Probes between 0 and 30 feet below land surface as monitored per the 2018 OU-1 Soil Gas Monitoring Memorandum.
2. See Attachment C, Table C-3 for list of vacuum measurements.
3. Gauge pressure measurements are relative to atmospheric pressure; negative gauge measurements are considered vacuum.

Vacuum

- < -0.1 in H2O (gauge) at all depths
- > -0.1 in H2O (gauge) at some depths
- > -0.1 in H2O (gauge) at all depths
- no vacuum data available

- OU-1 Boundary
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Former Omega Chemical Property Boundary

ddms
de maximis, inc.

Reviewed By: MS
Drawn By: KM
Date: 4/12/2021

Attachment C, Figure C-1
Vacuum Influence at
Shallow Vapor Monitoring Probes
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2021

1. Includes Deep Vapor Monitoring Probes greater than 30 feet below land surface as monitored per the 2018 OU-1 Soil Gas Monitoring Memorandum.
2. See Attachment C, Table C-4 for list of vacuum measurements.

Vacuum

- achieves target vacuum at all depths
- achieves target vacuum at some depths
- does not achieve target vacuum
- no vacuum data available

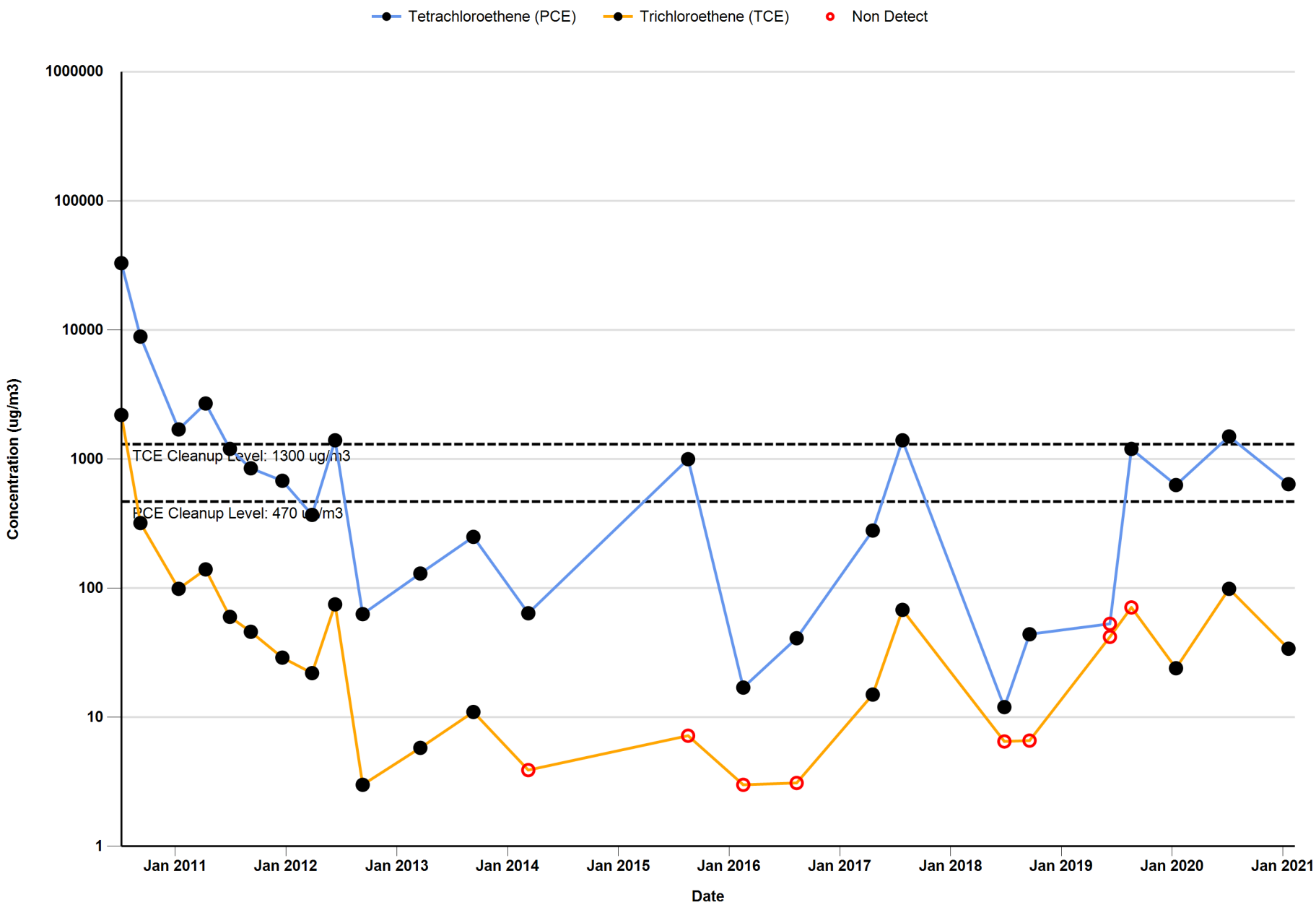
- OU-1 Boundary
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- Former Omega Chemical Property Boundary

ddms
de maximis, inc.

Reviewed By: MS
Drawn By: KM
Date: 4/12/2021

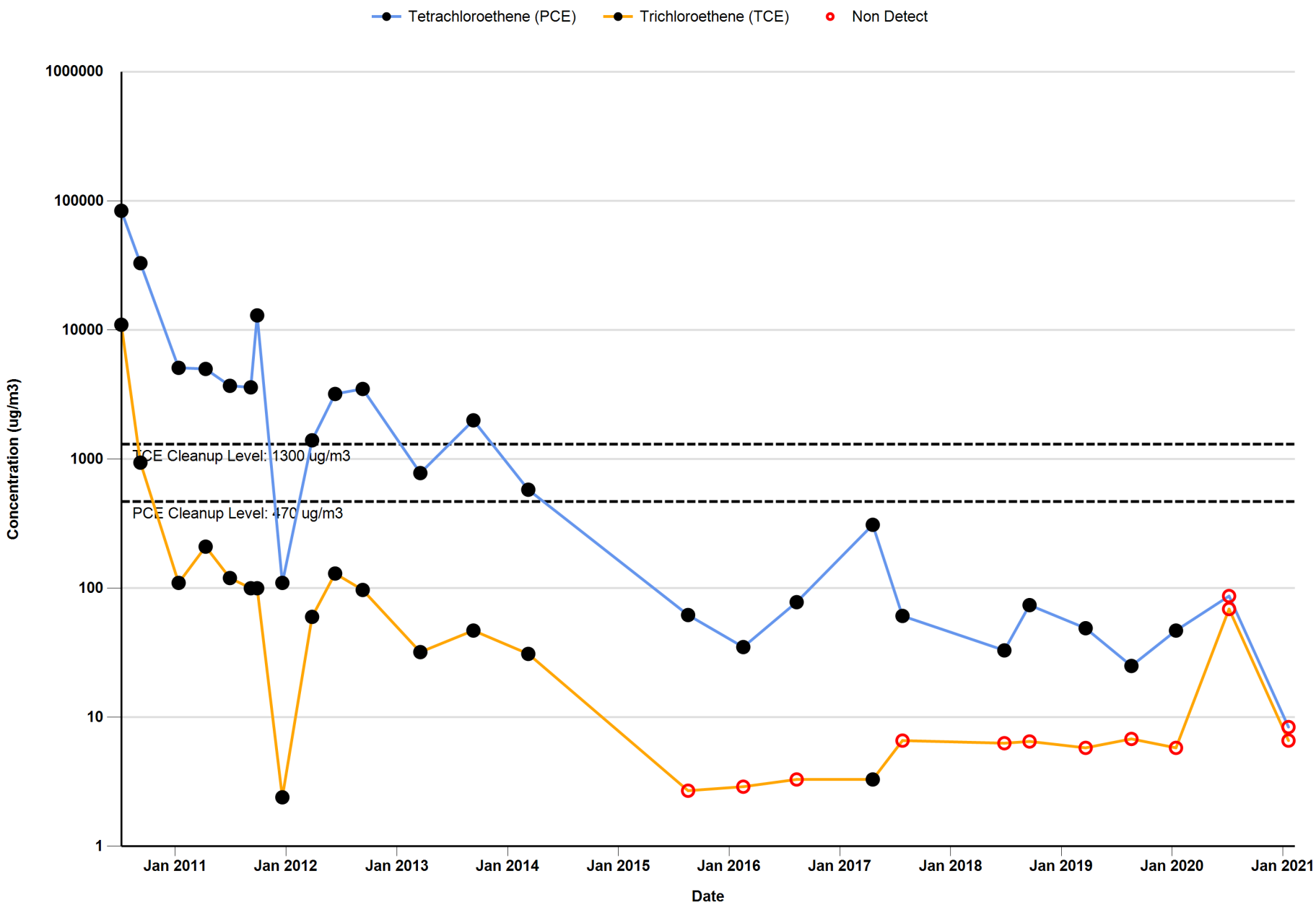
Attachment C, Figure C-2
Vacuum Influence at
Deep Vapor Monitoring Probes
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2021

Attachment C, Figure C-3
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-11 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



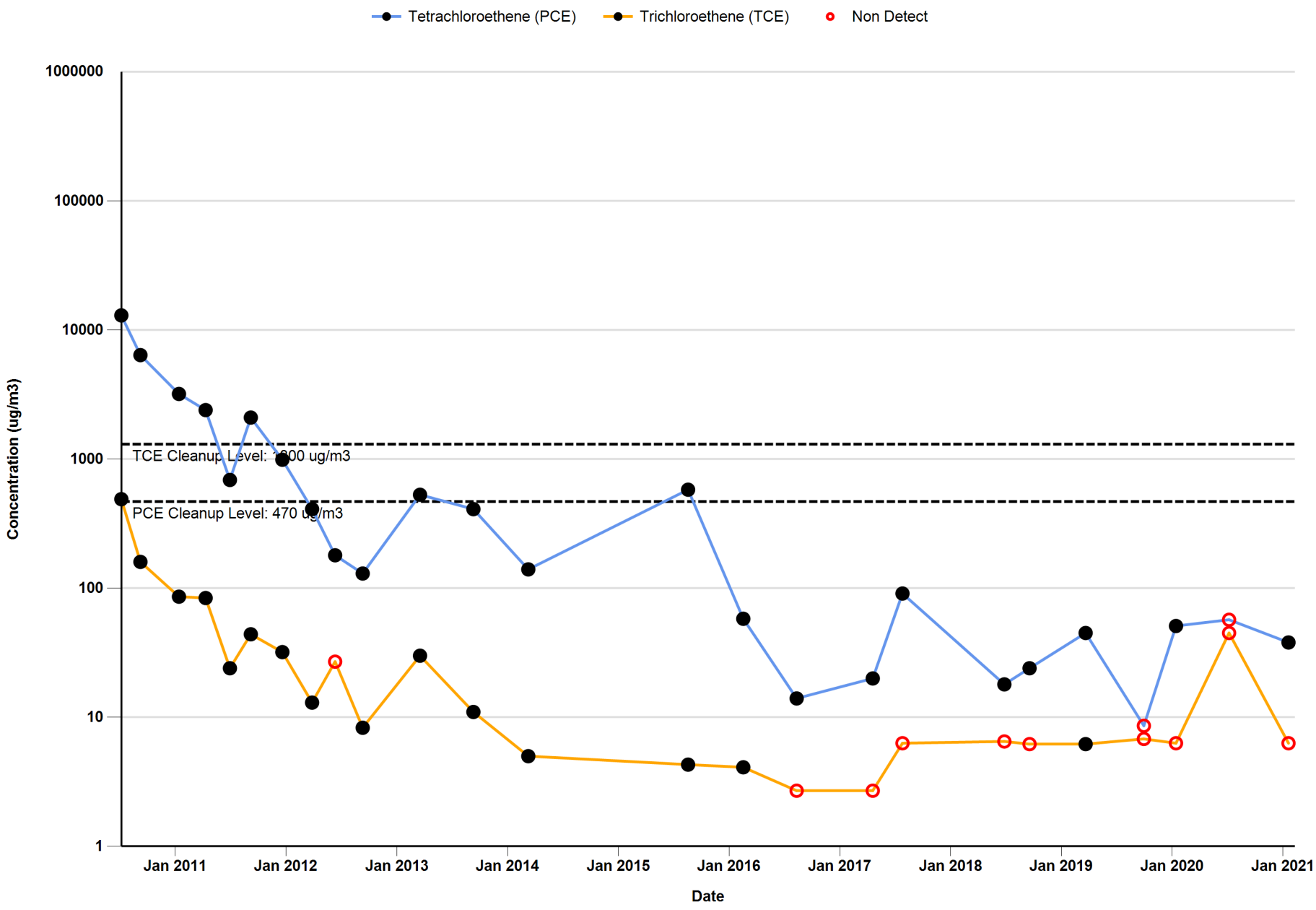
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-4
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-12 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



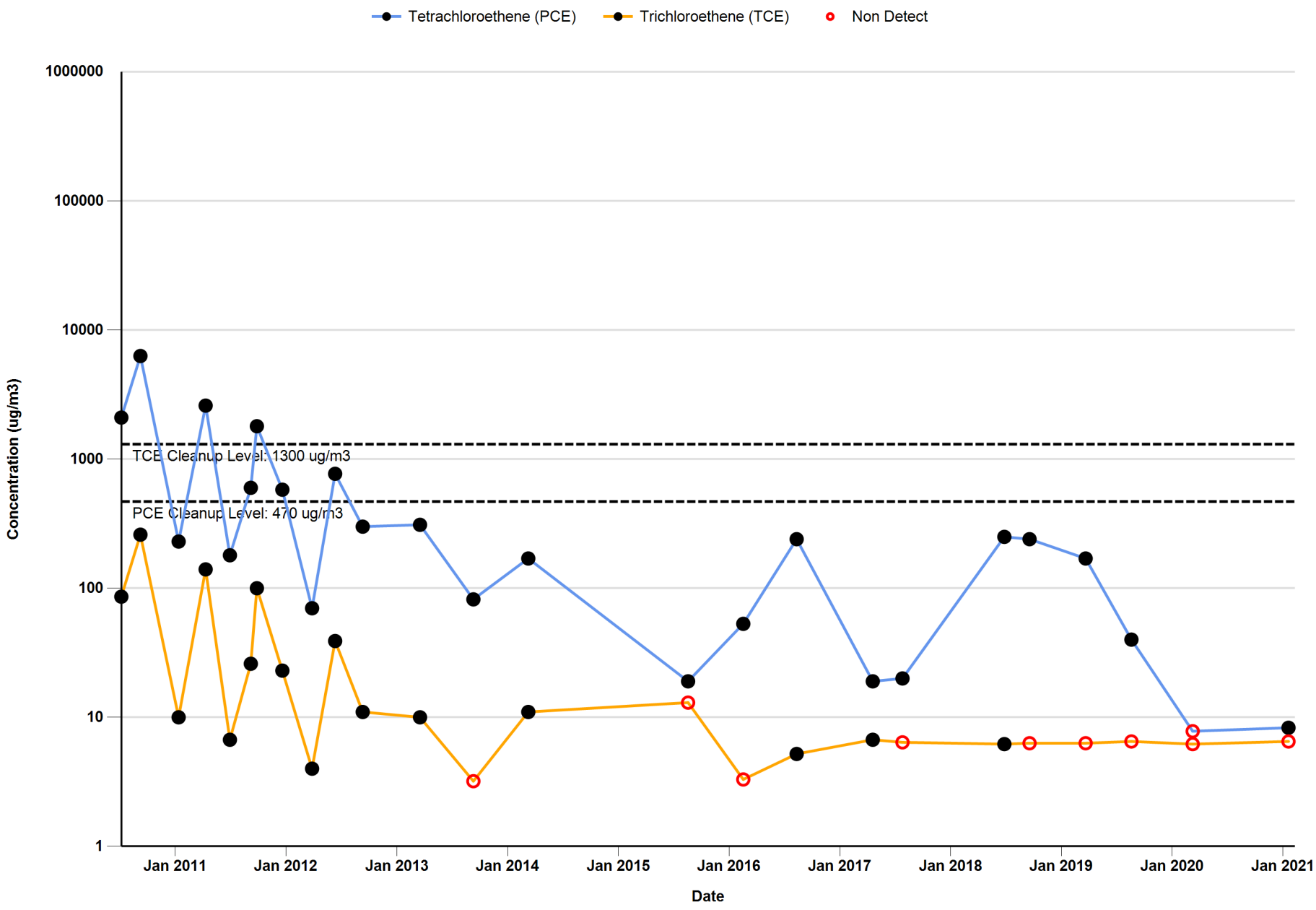
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-5
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-15 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



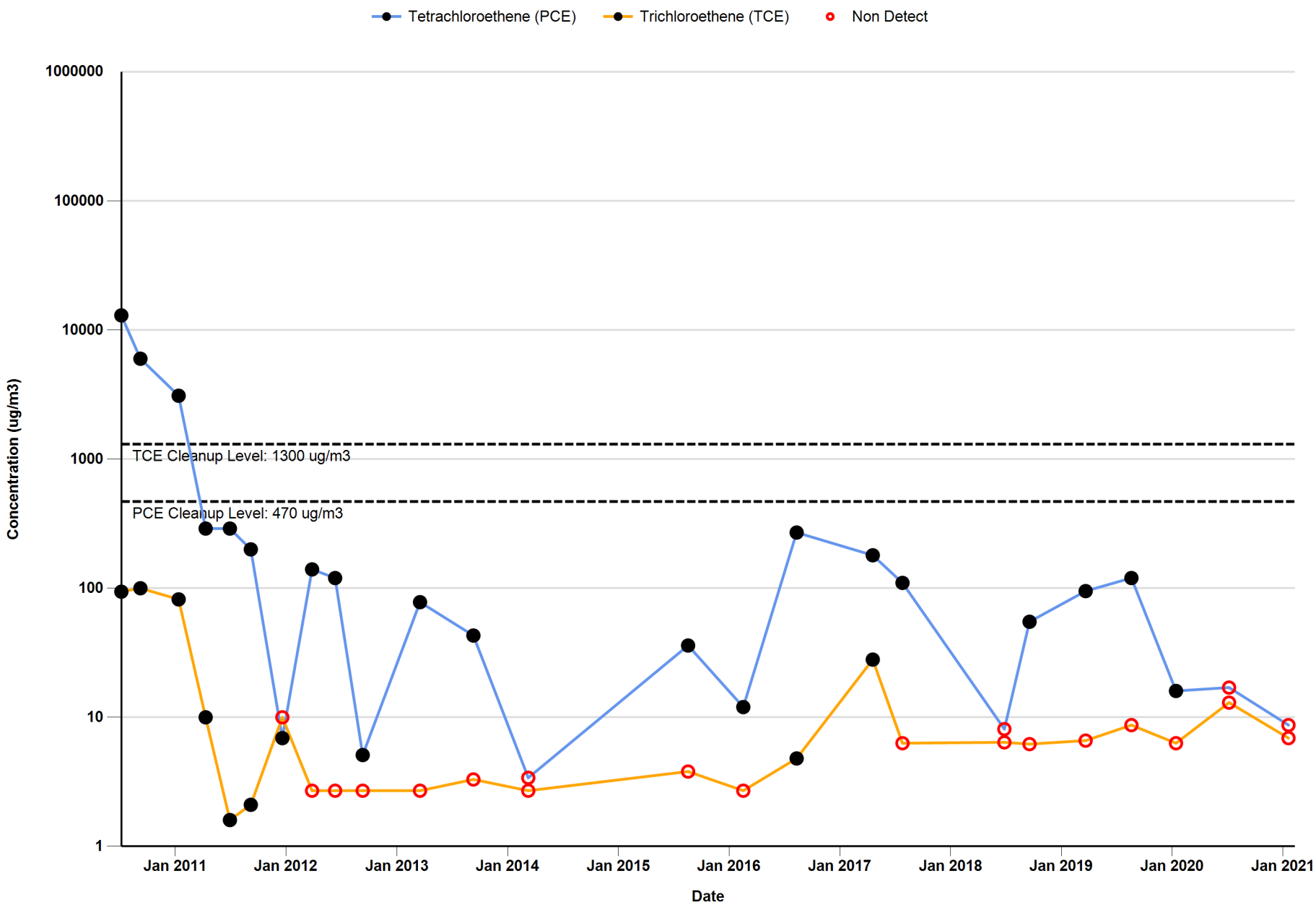
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-6
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-16 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



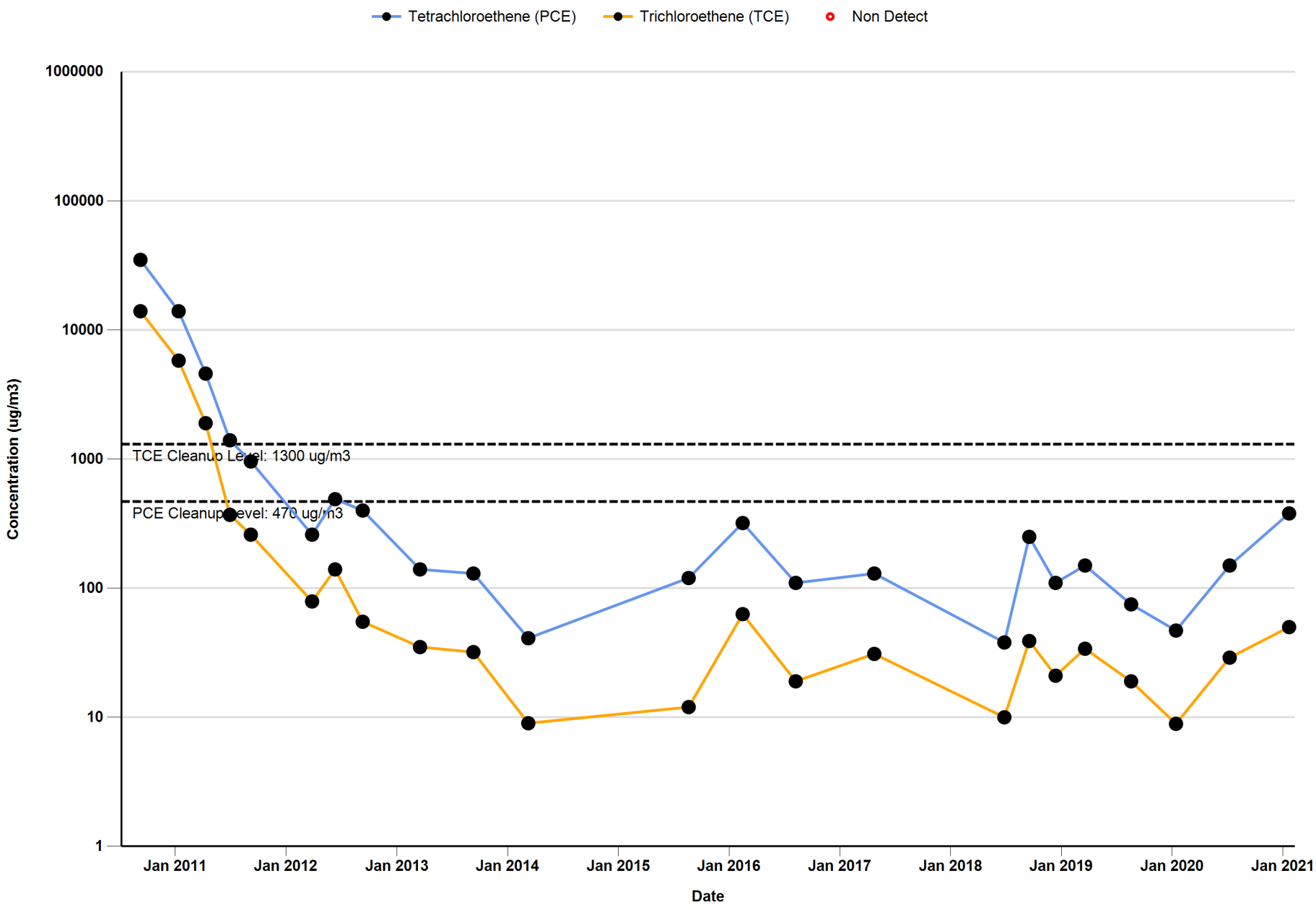
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-7
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-17 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



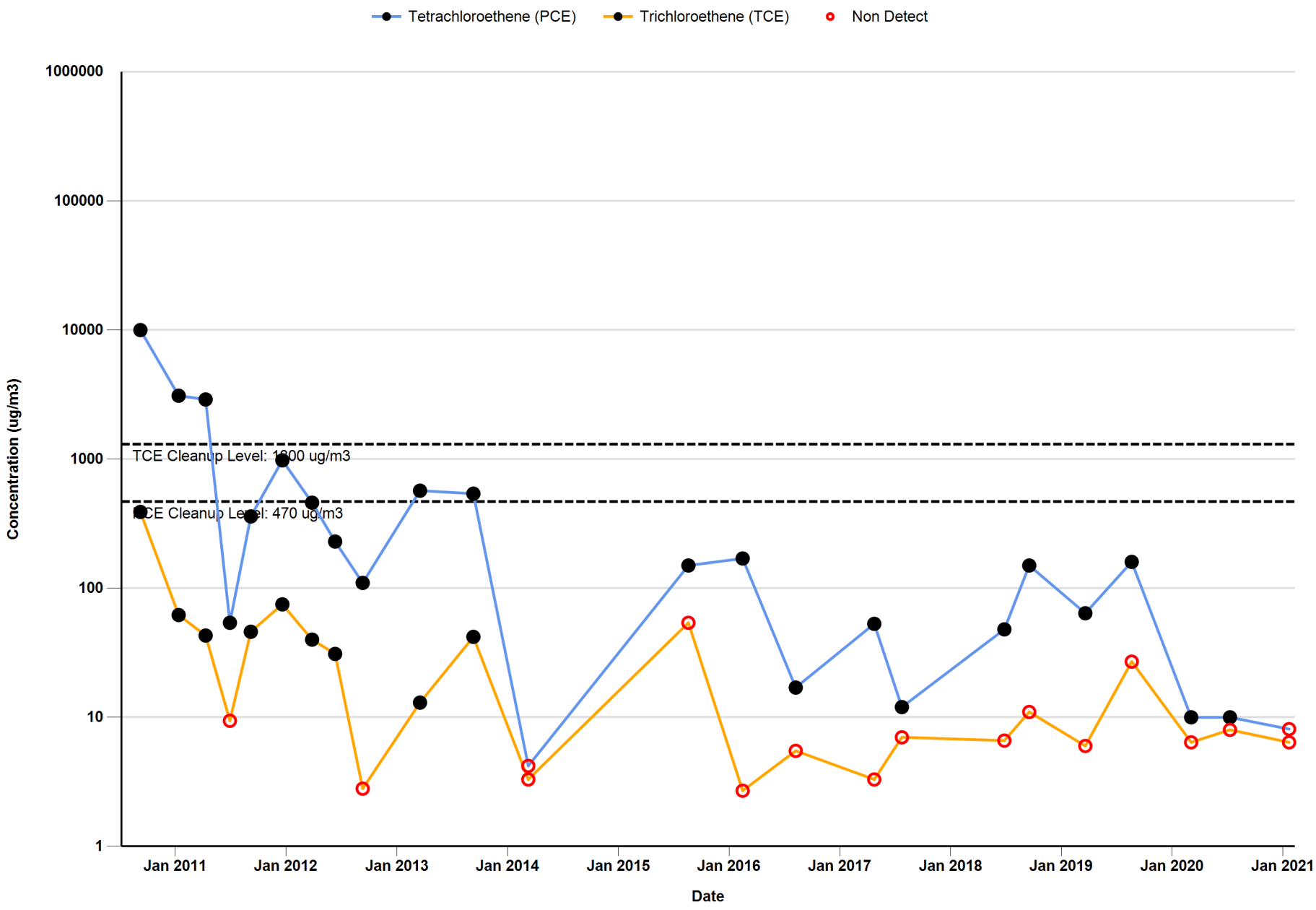
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-8
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-18 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



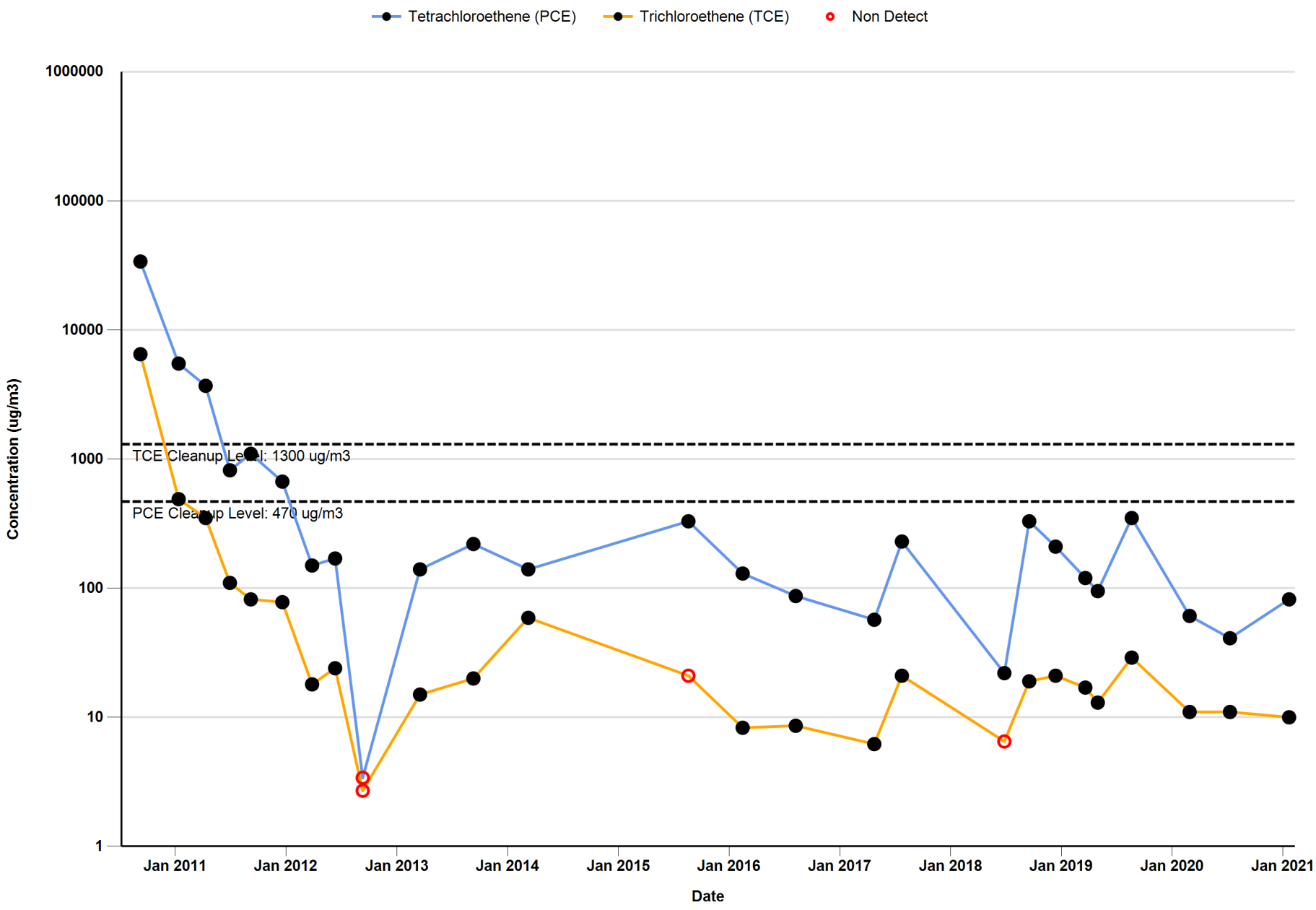
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-9
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-20 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



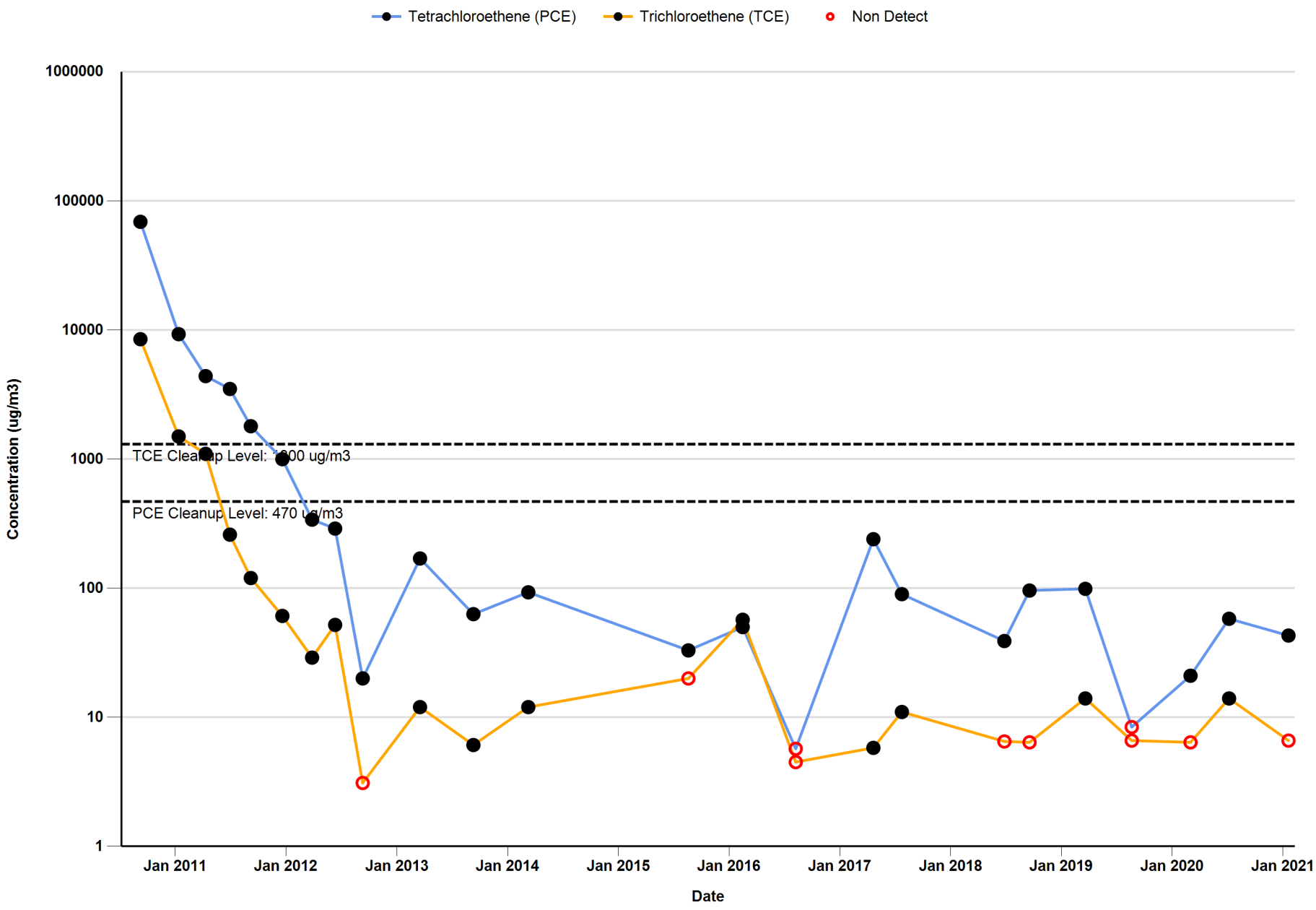
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-10
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-21 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



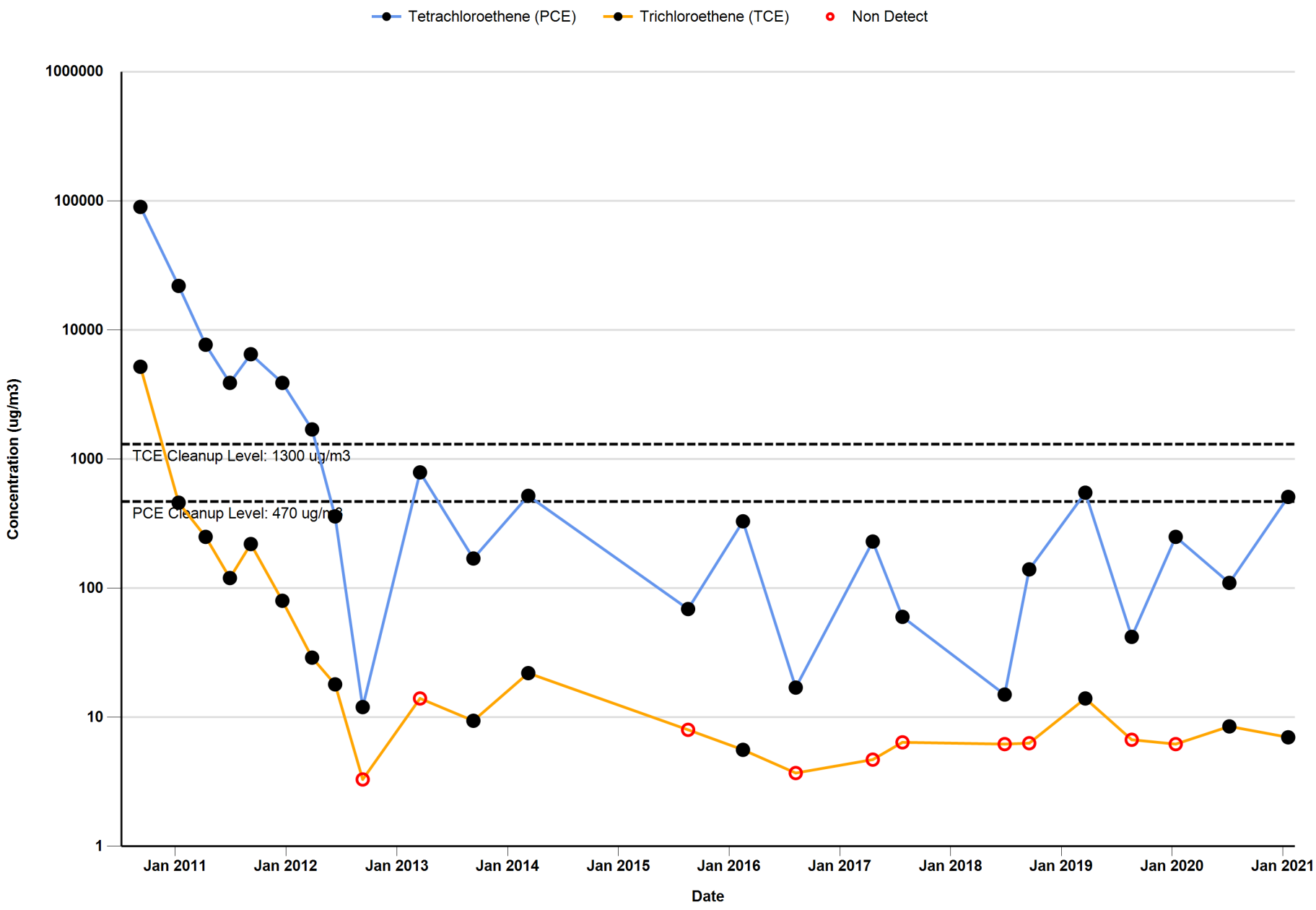
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-11
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-22 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



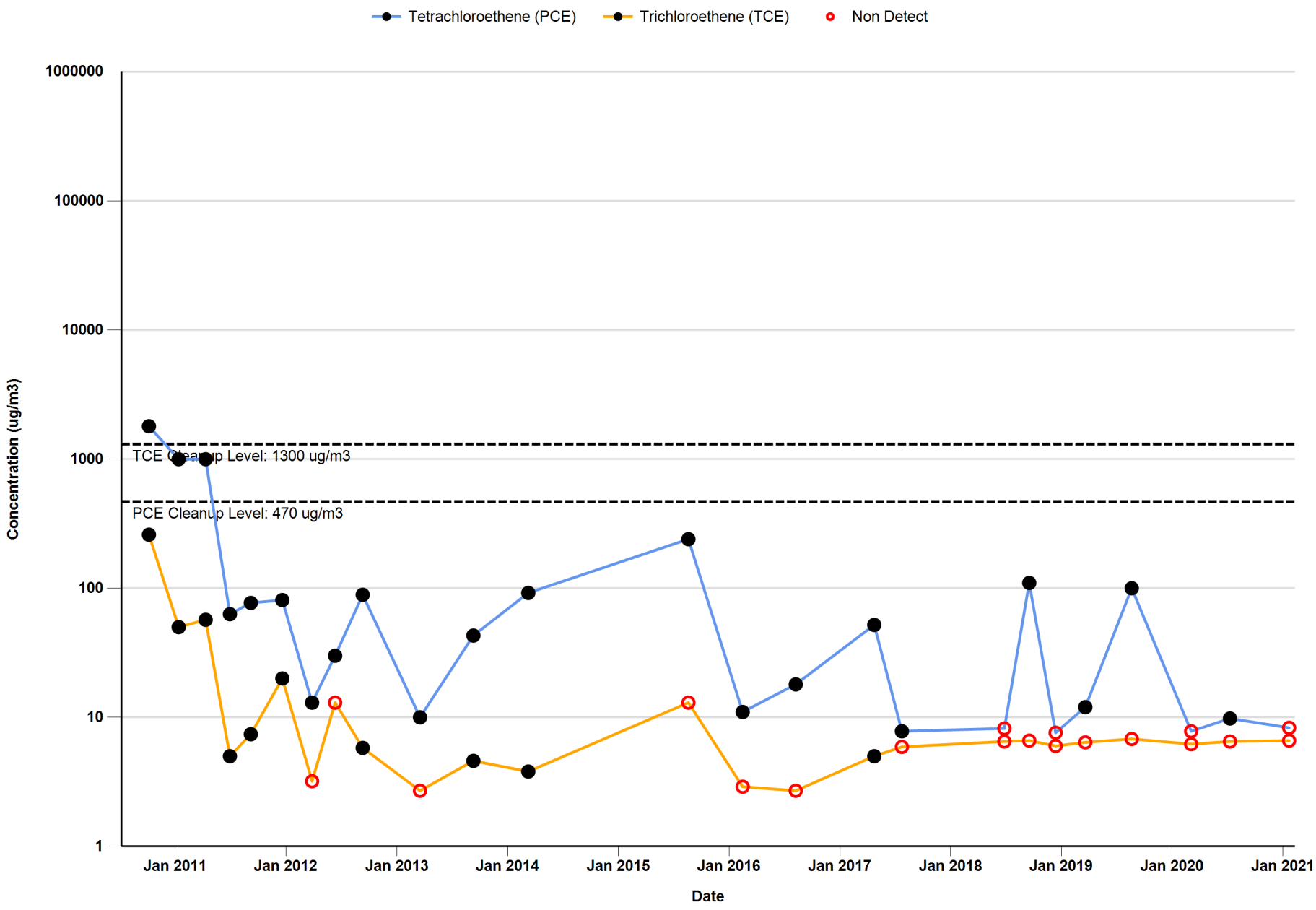
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-12
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-24 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



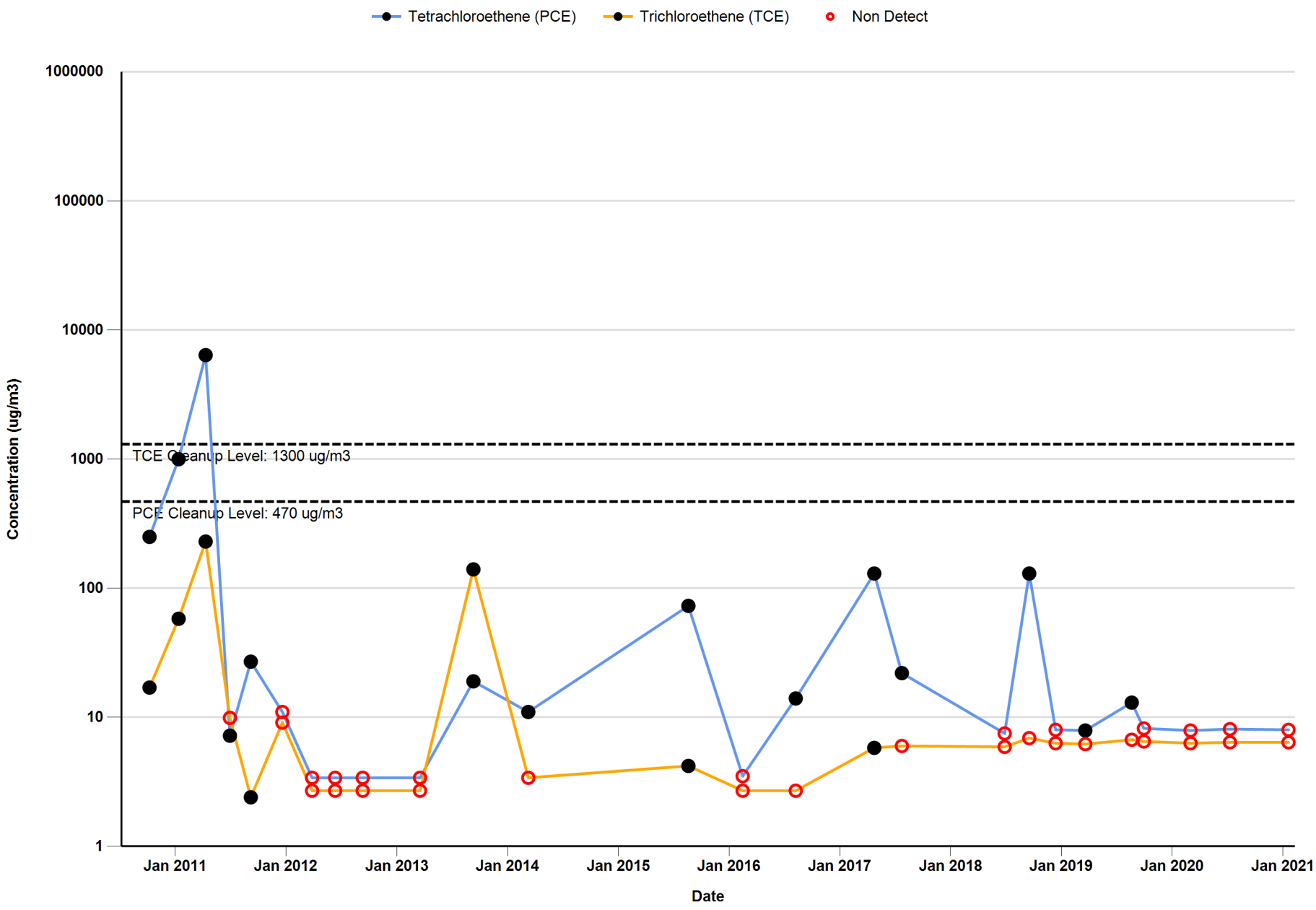
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-13
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-26 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



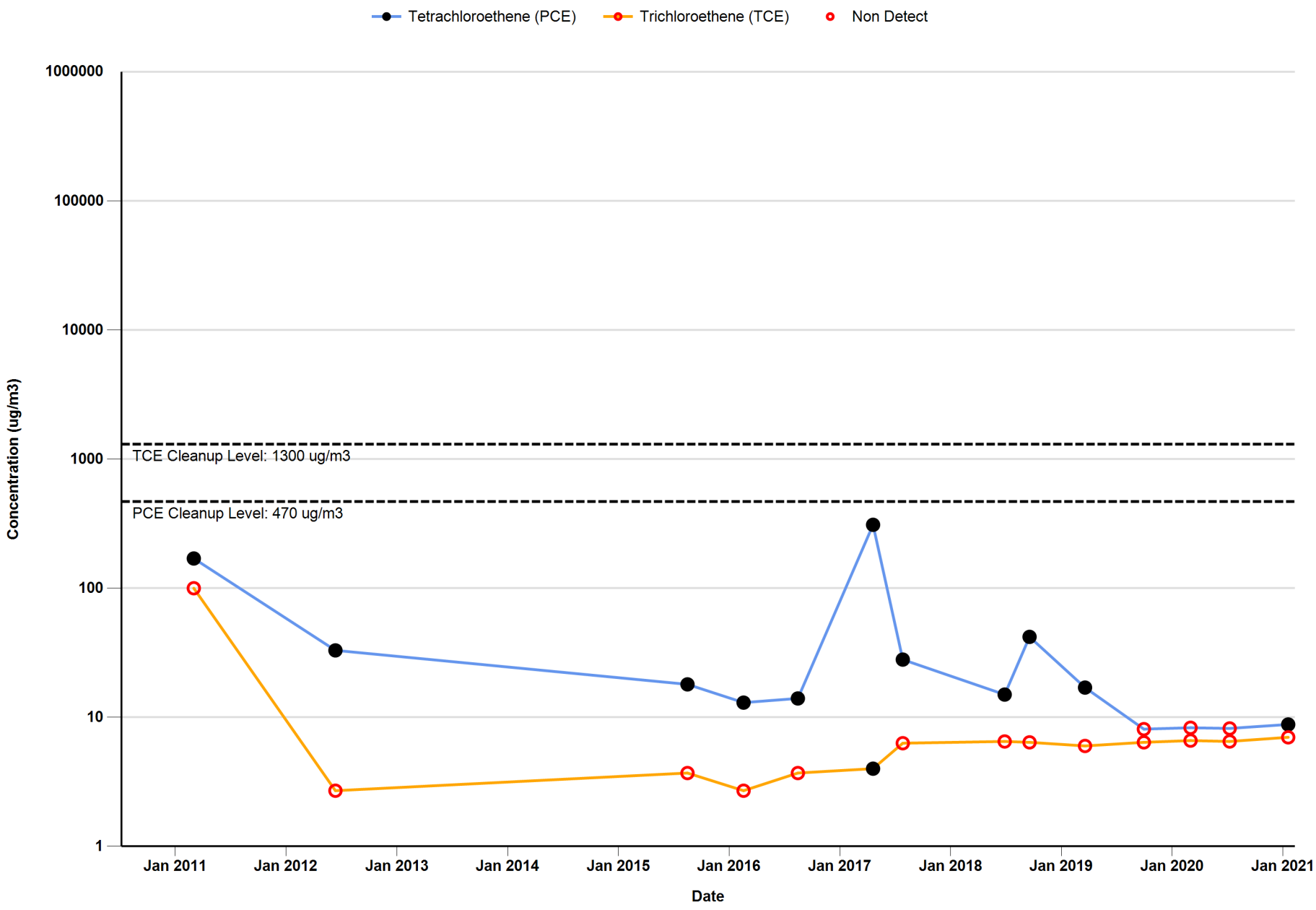
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-14
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-27 at 30 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



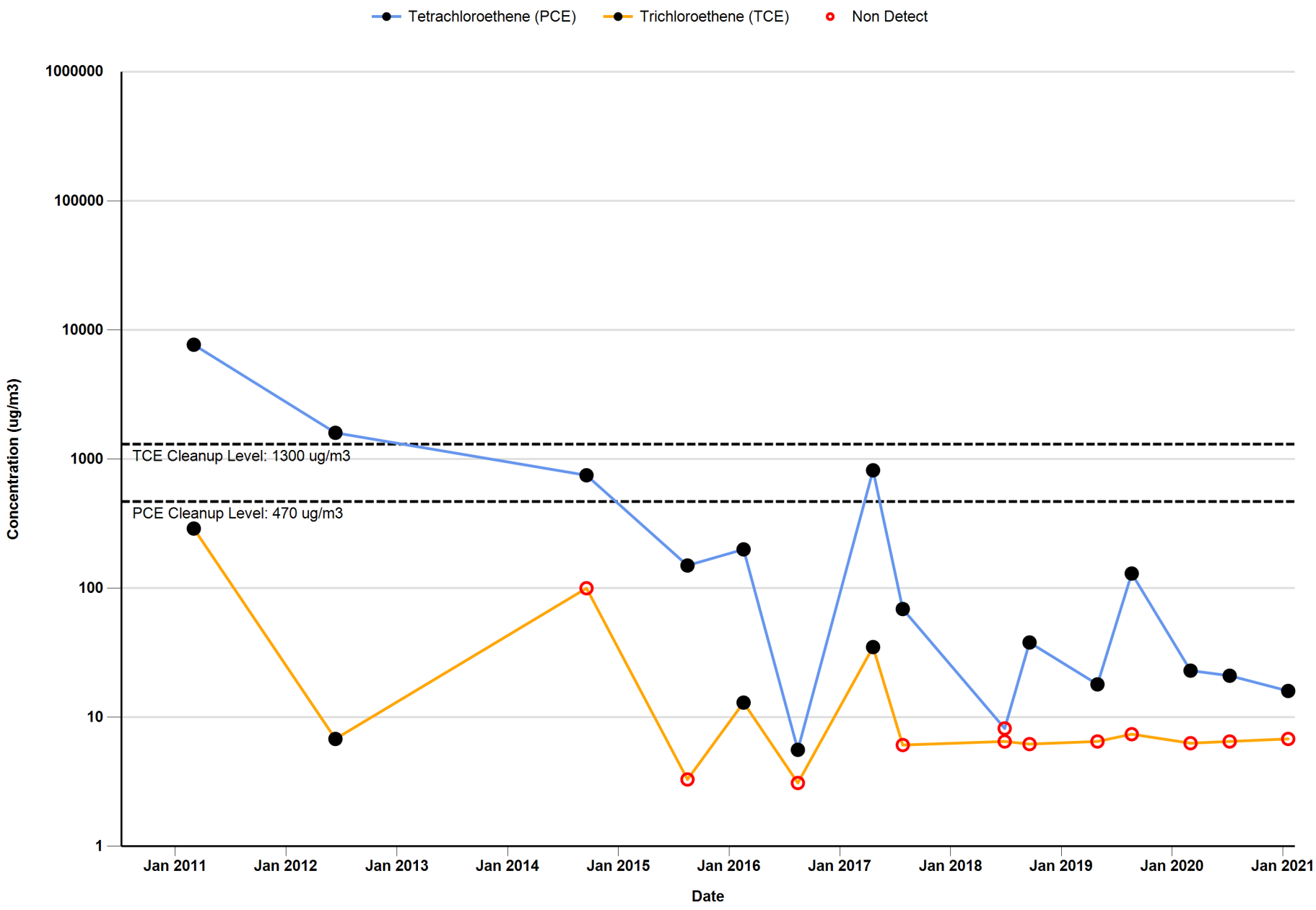
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-15
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-31 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



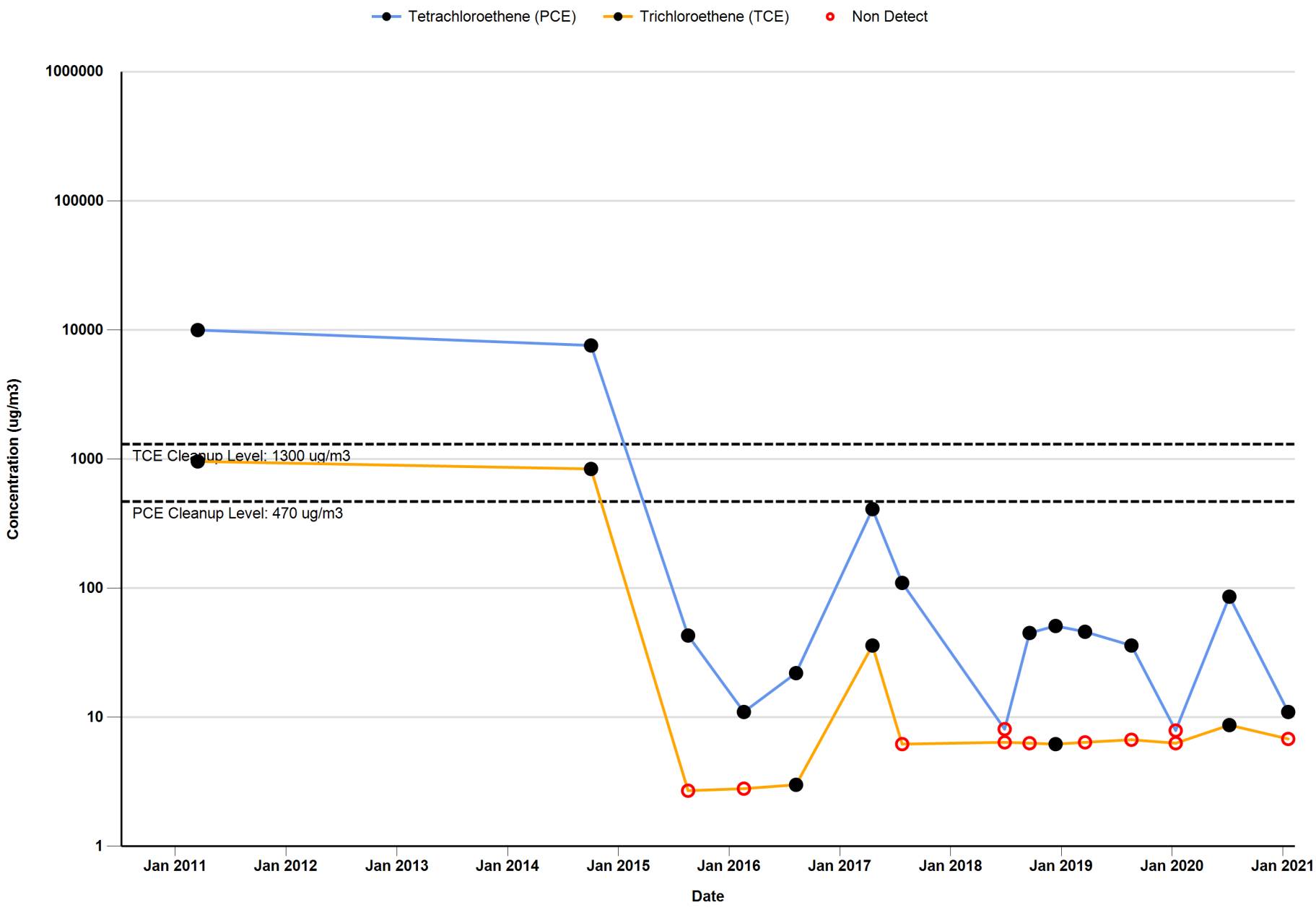
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-16
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-32 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



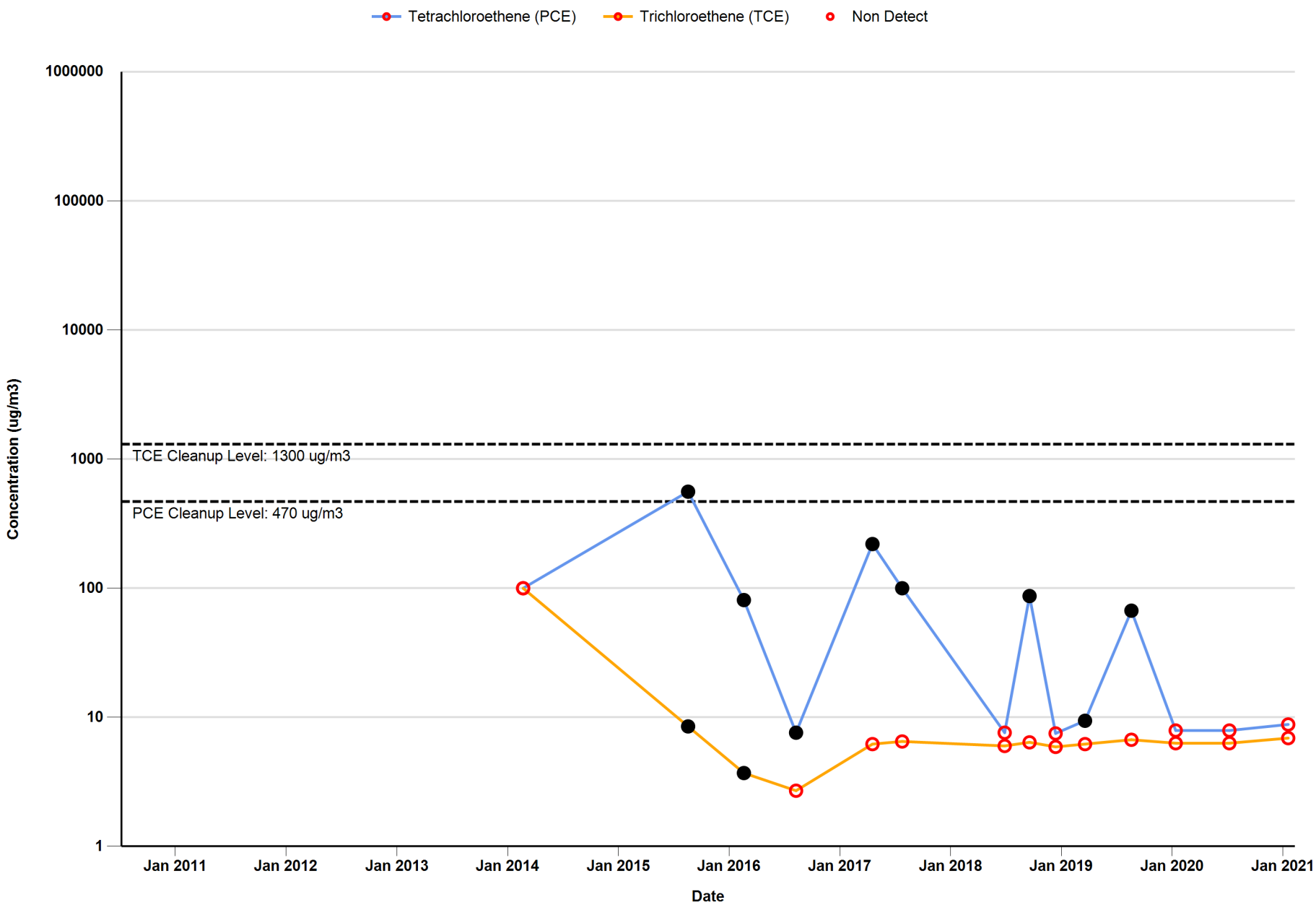
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-17
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-43 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



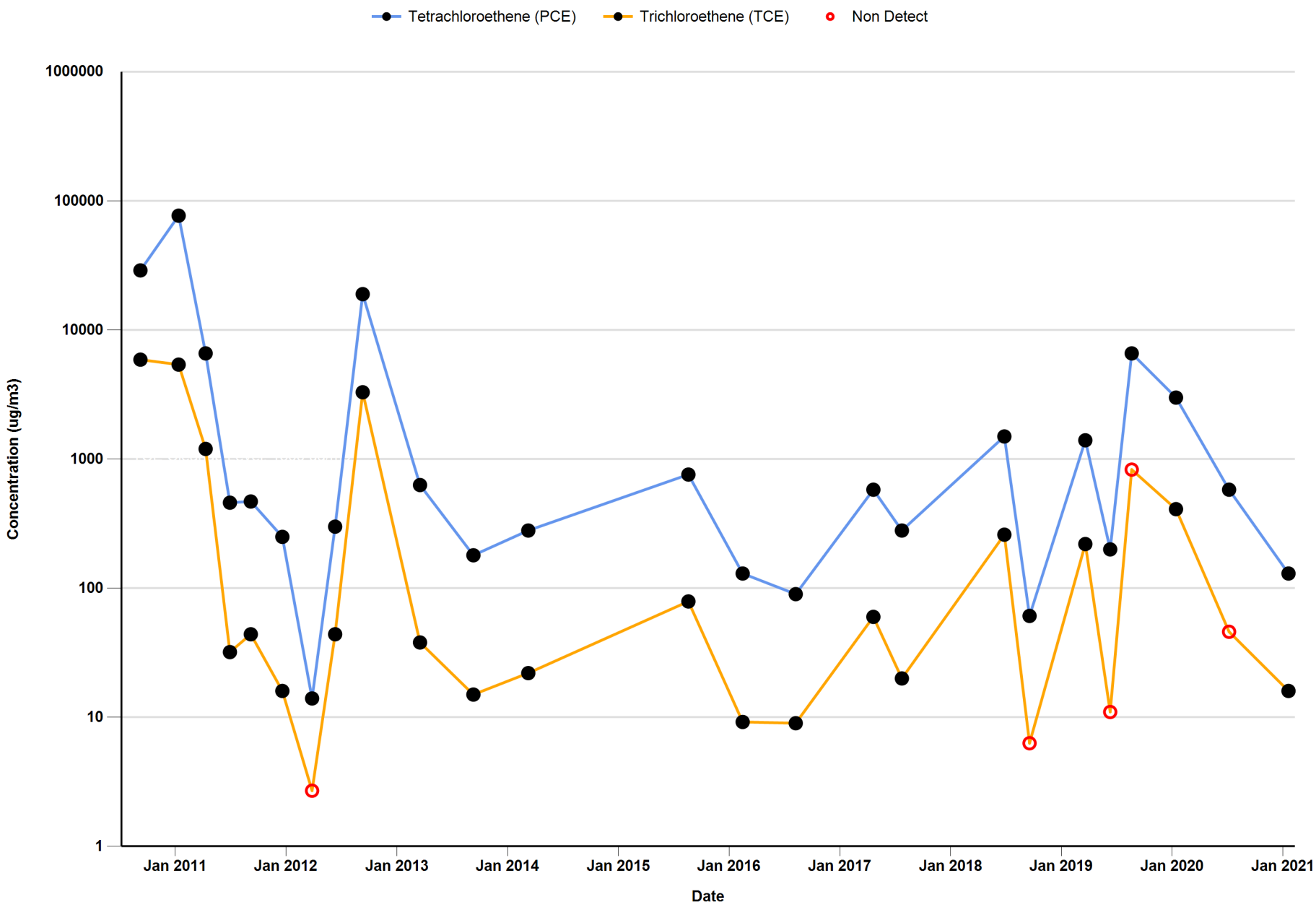
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-18
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-94 at 24 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



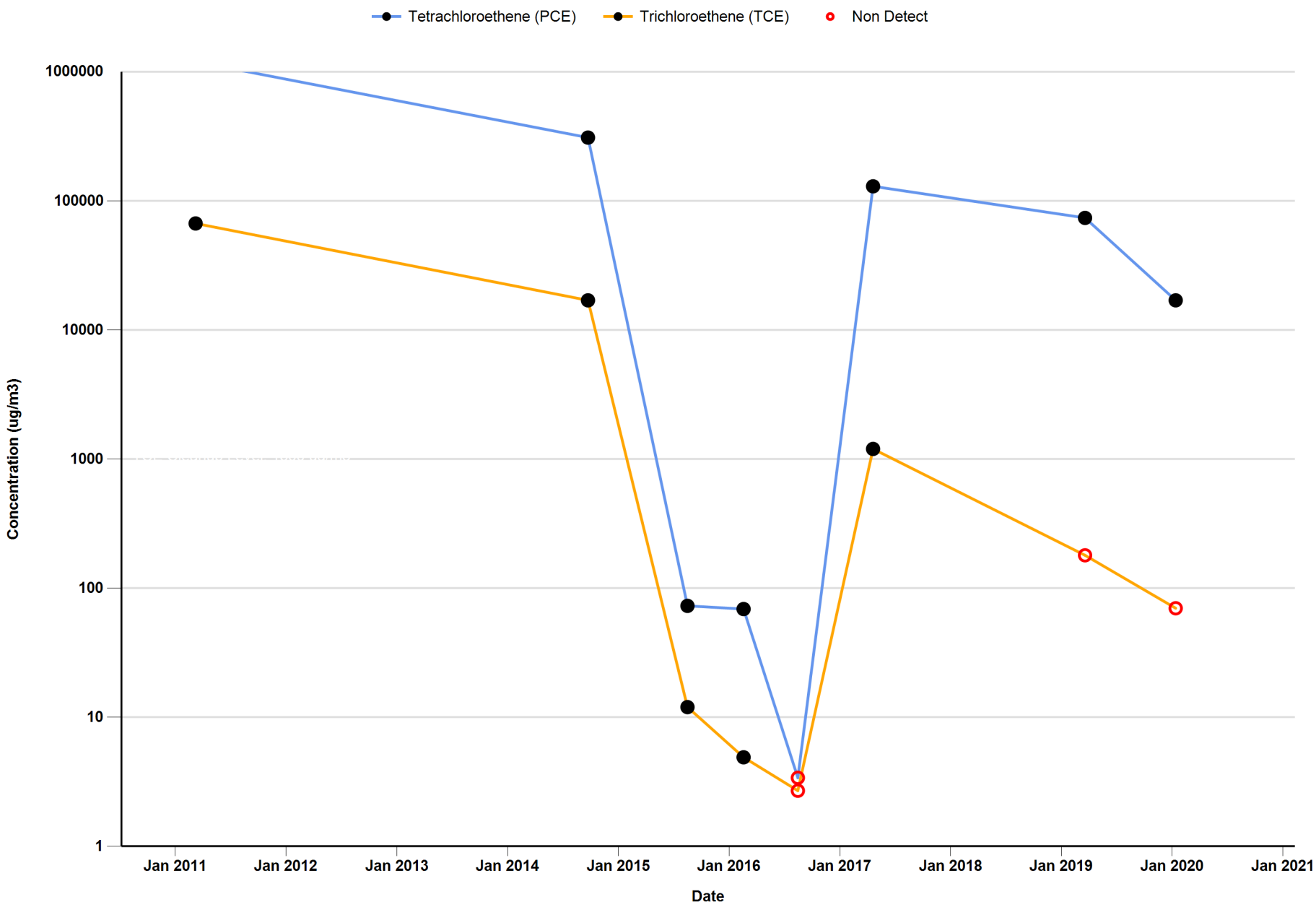
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-19
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-5 at 45 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



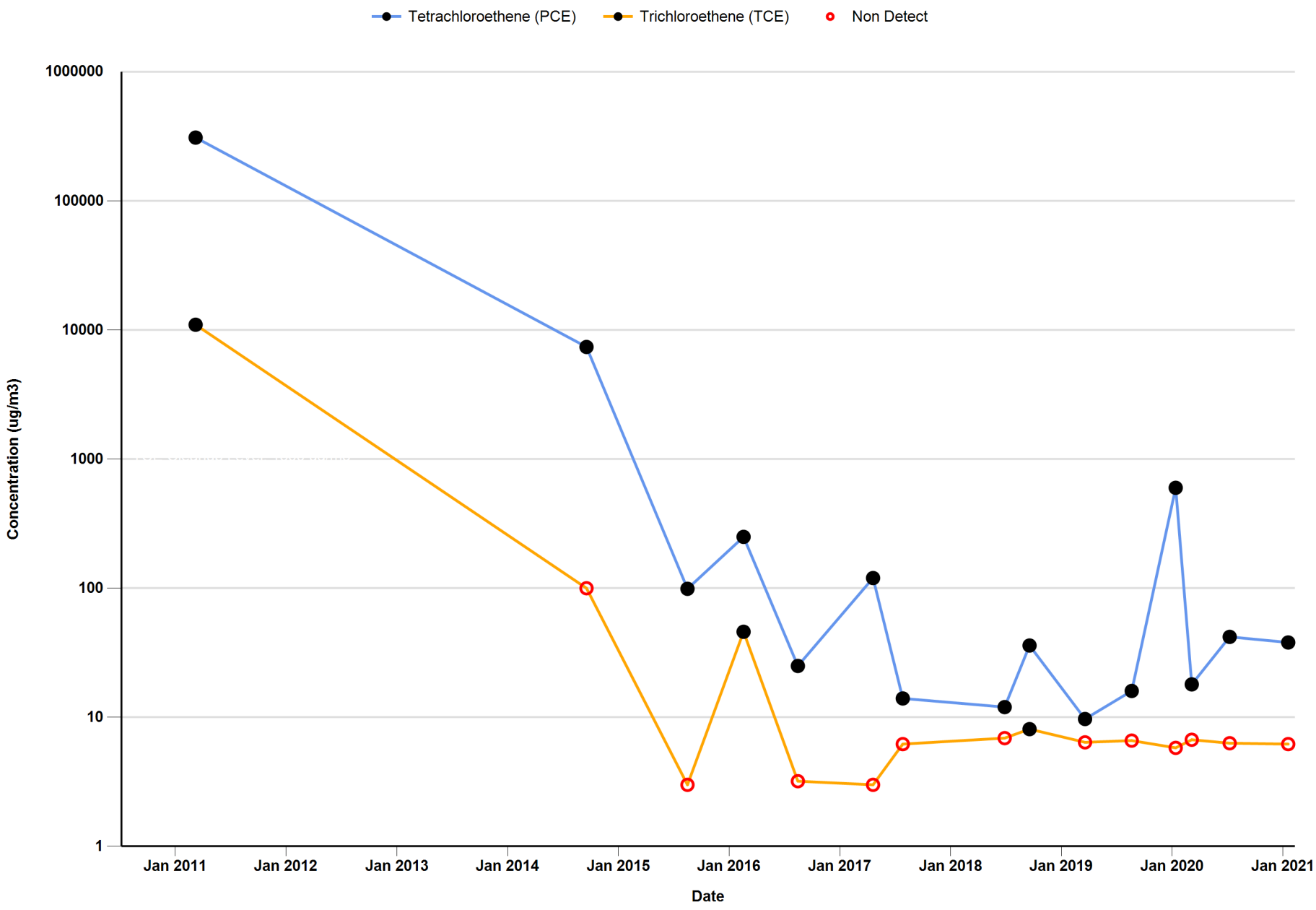
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-20
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-31 at 70 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



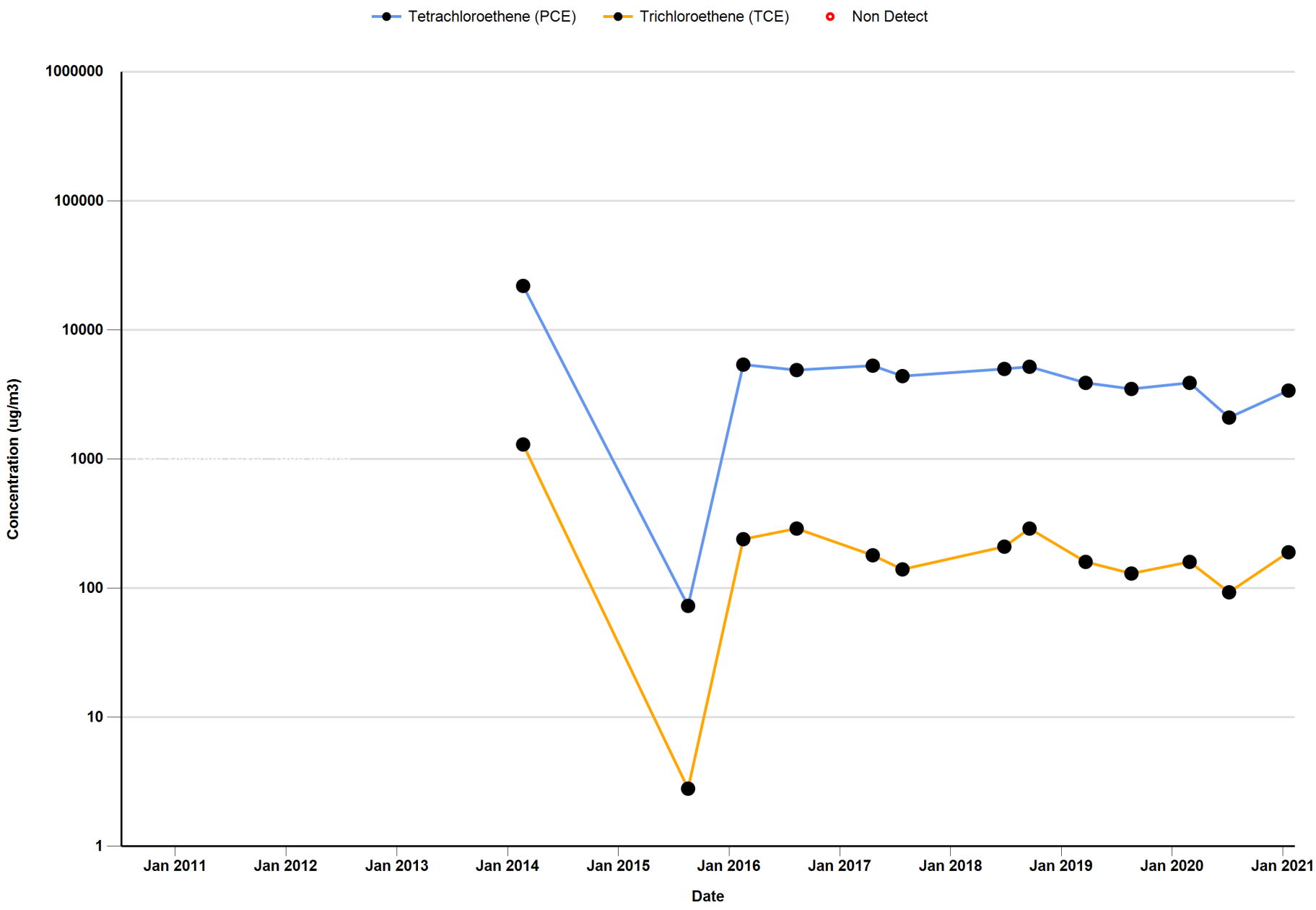
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-21
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-32 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



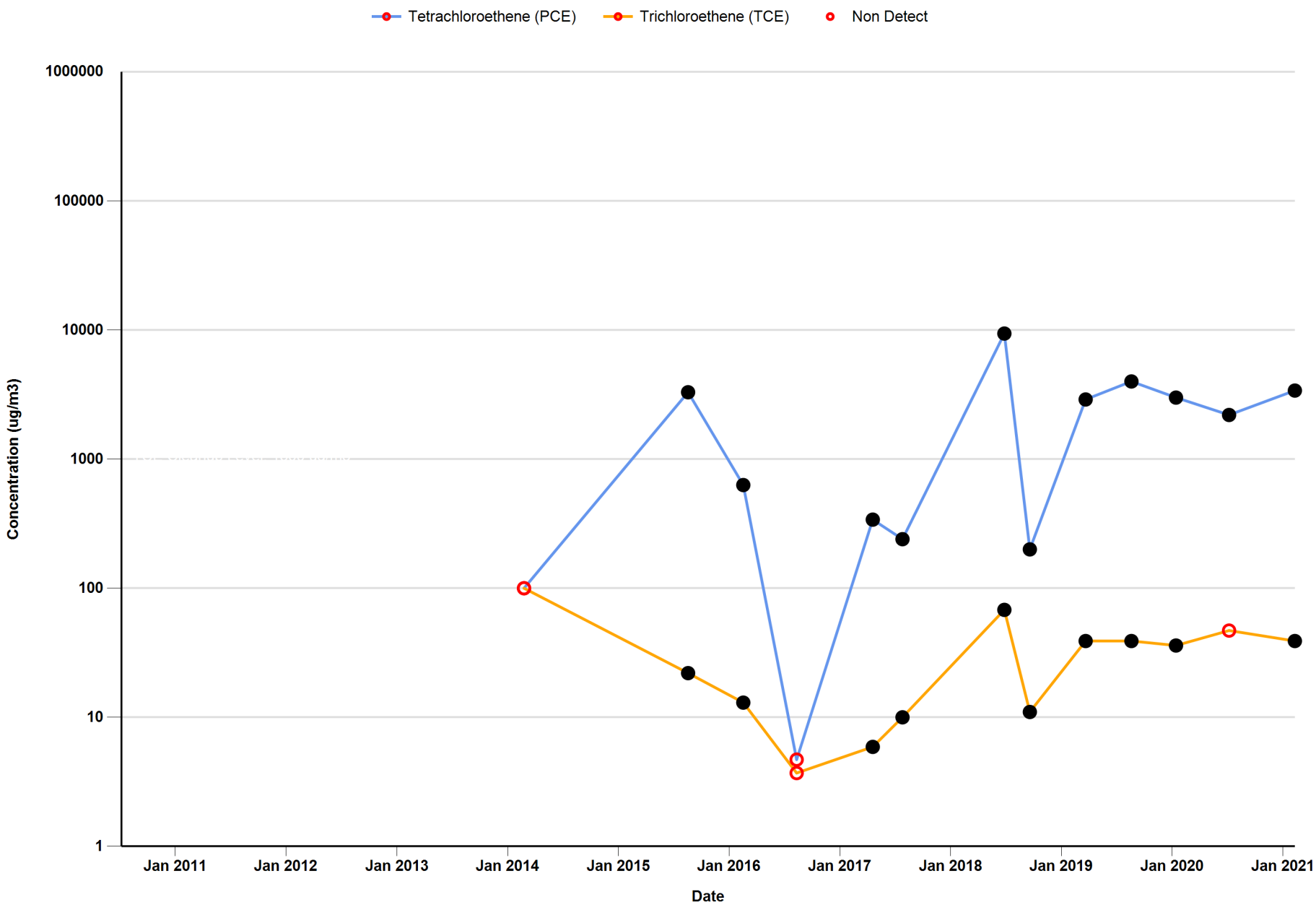
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-22
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-92 at 70 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



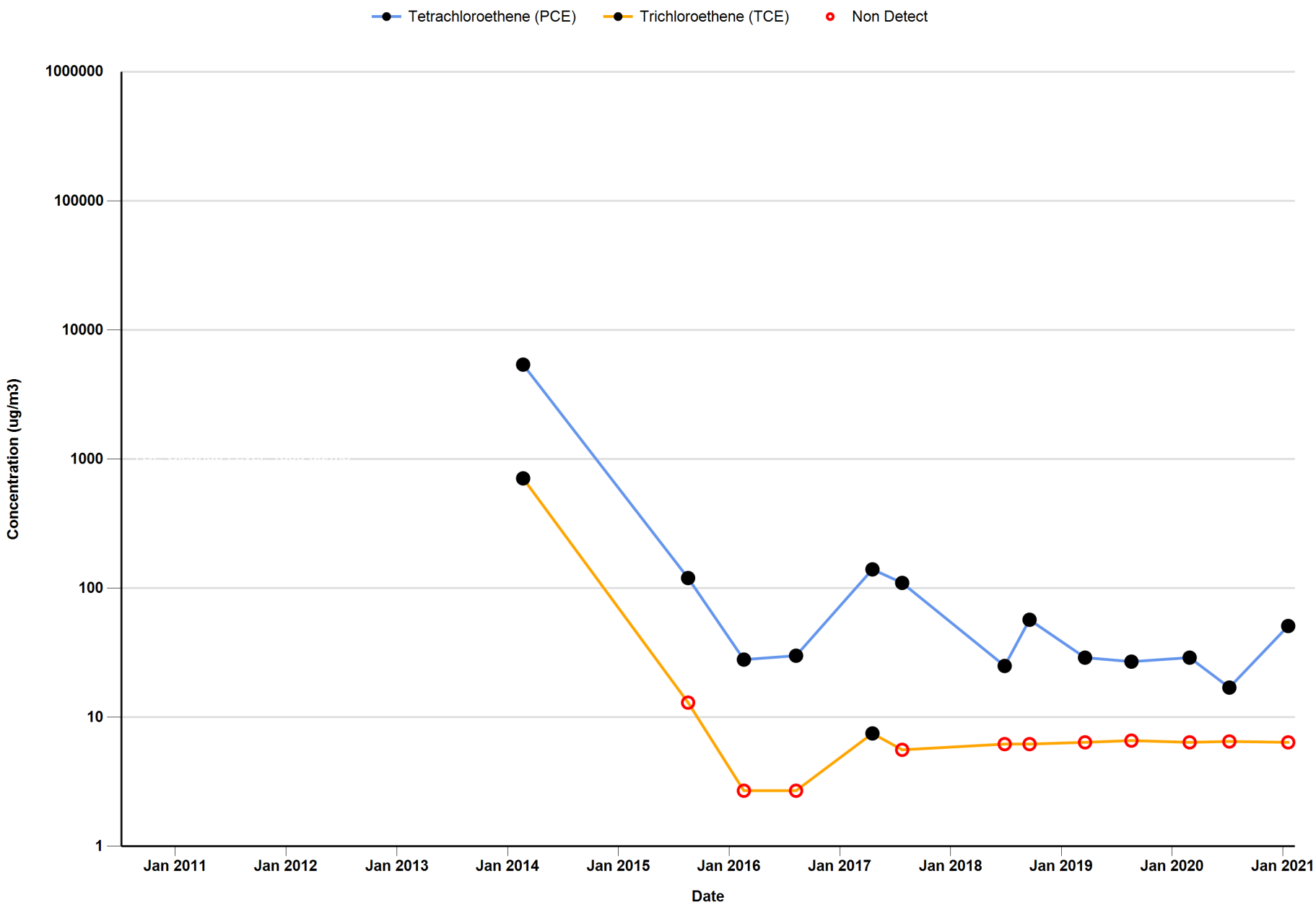
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-23
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-93 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



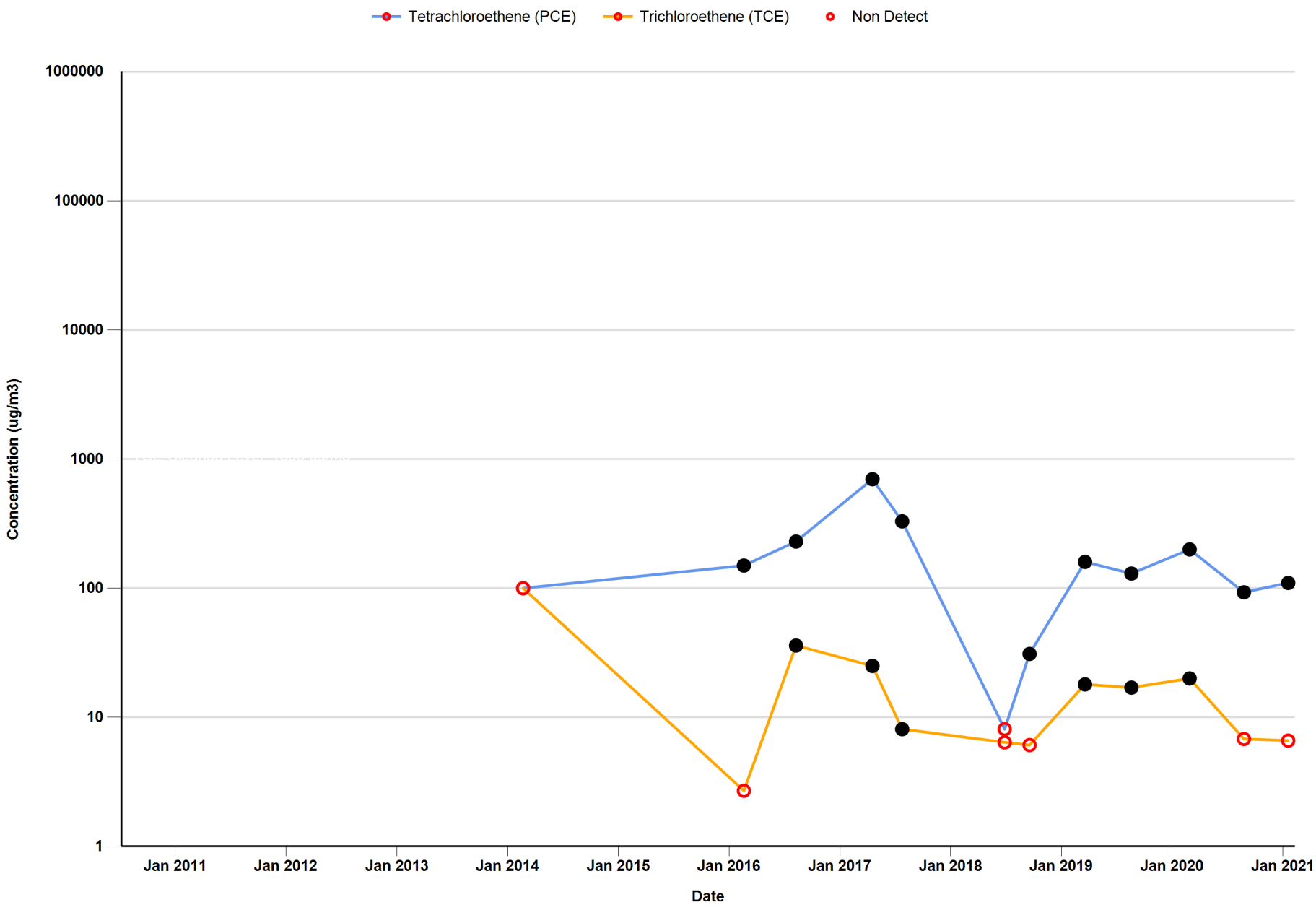
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-24
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-94 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

Attachment C, Figure C-25
Vapor Monitoring Probe PCE and TCE Concentrations
VMP-95 at 60 ft-bgs
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols on the graph

ATTACHMENT D

Other Soil Gas Collected this Quarter

(Not Included this Quarter)

ATTACHMENT F

Laboratory Analytical Results

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1/29/2021
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega-OU1 IAQ Jan 2021
Project #:
Workorder #: 2101453A

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/18/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2101453A

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	3139-GL 6403
FAX:	949.679.9078	**PROJECT #**	Omega-OU1 IAQ Jan 2021
DATE RECEIVED:	01/18/2021	**CONTACT:**	Jade White
DATE COMPLETED:	01/29/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAQ_B3_011421	Modified TO-15	5.7 "Hg	4.9 psi
01B	IAQ_B3_011421	Modified TO-15	5.7 "Hg	4.9 psi
02A	IAQ_B2_011421	Modified TO-15	6.3 "Hg	4.9 psi
02B	IAQ_B2_011421	Modified TO-15	6.3 "Hg	4.9 psi
03A	IAQ_B1_011421	Modified TO-15	6.7 "Hg	4.9 psi
03B	IAQ_B1_011421	Modified TO-15	6.7 "Hg	4.9 psi
04A	IAQ_B1_011421K	Modified TO-15	6.1 "Hg	4.9 psi
04B	IAQ_B1_011421K	Modified TO-15	6.1 "Hg	4.9 psi
05A	IAQ_TP3_011421	Modified TO-15	5.5 "Hg	4.9 psi
05B	IAQ_TP3_011421	Modified TO-15	5.5 "Hg	4.9 psi
06A	IAQ_TP1_011421	Modified TO-15	6.7 "Hg	5 psi
06B	IAQ_TP1_011421	Modified TO-15	6.7 "Hg	5 psi
07A	IAQ_AA1_011421	Modified TO-15	6.3 "Hg	4.9 psi
07B	IAQ_AA1_011421	Modified TO-15	6.3 "Hg	4.9 psi
08A	IAQ_SC2_011421	Modified TO-15	5.5 "Hg	4.9 psi
08B	IAQ_SC2_011421	Modified TO-15	5.5 "Hg	4.9 psi
09A	IAQ_SC2_011421K	Modified TO-15	5.7 "Hg	4.9 psi
09B	IAQ_SC2_011421K	Modified TO-15	5.7 "Hg	4.9 psi
10A	IAQ_AA3_011421	Modified TO-15	6.7 "Hg	4.9 psi
10B	IAQ_AA3_011421	Modified TO-15	6.7 "Hg	4.9 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
11C	Lab Blank	Modified TO-15	NA	NA

Continued on next page

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WORK ORDER #: 2101453A

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	3139-GL 6403
FAX:	949.679.9078	**PROJECT #**	Omega-OU1 IAQ Jan 2021
DATE RECEIVED:	01/18/2021	**CONTACT:**	Jade White
DATE COMPLETED:	01/29/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
11D	Lab Blank	Modified TO-15	NA	NA
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
12C	CCV	Modified TO-15	NA	NA
12D	CCV	Modified TO-15	NA	NA
13A	LCS	Modified TO-15	NA	NA
13AA	LCSD	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA
13BB	LCSD	Modified TO-15	NA	NA
13C	LCS	Modified TO-15	NA	NA
13CC	LCSD	Modified TO-15	NA	NA
13D	LCS	Modified TO-15	NA	NA
13DD	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 01/29/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
DeMaximis, Inc
Workorder# 2101453A

Ten 6 Liter Summa Canister (100% SIM Ambient) samples were received on January 18, 2021. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Dilution was performed on samples IAQ_SC2_011421 and IAQ_SC2_011421K due to the presence of high level target species.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_B3_011421

Lab ID#: 2101453A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	16	3.9	38

Client Sample ID: IAQ_B3_011421

Lab ID#: 2101453A-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.39	0.16	1.9
Freon 11	0.033	0.23	0.18	1.3
Freon 113	0.033	0.068	0.25	0.52
Chloroform	0.033	0.039	0.16	0.19
Carbon Tetrachloride	0.033	0.064	0.21	0.40
Benzene	0.082	0.59	0.26	1.9
Toluene	0.082	2.3	0.31	8.8
Tetrachloroethene	0.033	0.038	0.22	0.26
Ethyl Benzene	0.033	0.29	0.14	1.3
m,p-Xylene	0.066	1.1	0.29	4.7
o-Xylene	0.033	0.38	0.14	1.7

Client Sample ID: IAQ_B2_011421

Lab ID#: 2101453A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	30	4.0	72

Client Sample ID: IAQ_B2_011421

Lab ID#: 2101453A-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Freon 11	0.034	0.22	0.19	1.2
Freon 113	0.034	0.069	0.26	0.53
Chloroform	0.034	0.044	0.16	0.21

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_B2_011421

Lab ID#: 2101453A-02B

Carbon Tetrachloride	0.034	0.061	0.21	0.38
Benzene	0.084	0.64	0.27	2.0
Toluene	0.084	2.6	0.32	9.9
Tetrachloroethene	0.034	0.052	0.23	0.35
Ethyl Benzene	0.034	0.39	0.15	1.7
m,p-Xylene	0.068	1.6	0.29	6.9
o-Xylene	0.034	0.55	0.15	2.4
1,4-Dichlorobenzene	0.034	0.034	0.20	0.20

Client Sample ID: IAQ_B1_011421

Lab ID#: 2101453A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	18	4.1	43
Methylene Chloride	0.34	0.35	1.2	1.2

Client Sample ID: IAQ_B1_011421

Lab ID#: 2101453A-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.39	0.17	1.9
Freon 11	0.034	0.22	0.19	1.3
Freon 113	0.034	0.069	0.26	0.52
Chloroform	0.034	0.052	0.17	0.26
Carbon Tetrachloride	0.034	0.066	0.22	0.42
Benzene	0.086	0.62	0.27	2.0
Toluene	0.086	1.7	0.32	6.5
Tetrachloroethene	0.034	0.037	0.23	0.25
Ethyl Benzene	0.034	0.26	0.15	1.1
m,p-Xylene	0.069	1.0	0.30	4.4
o-Xylene	0.034	0.36	0.15	1.6

Client Sample ID: IAQ_B1_011421K

Lab ID#: 2101453A-04A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_B1_011421K

Lab ID#: 2101453A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	17	4.0	40

Client Sample ID: IAQ_B1_011421K

Lab ID#: 2101453A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Freon 11	0.034	0.22	0.19	1.2
Freon 113	0.034	0.068	0.26	0.52
Chloroform	0.034	0.049	0.16	0.24
Carbon Tetrachloride	0.034	0.066	0.21	0.41
Benzene	0.084	0.59	0.27	1.9
Toluene	0.084	1.6	0.32	6.2
Tetrachloroethene	0.034	0.038	0.23	0.26
Ethyl Benzene	0.034	0.26	0.14	1.1
m,p-Xylene	0.067	1.0	0.29	4.3
o-Xylene	0.034	0.36	0.14	1.6

Client Sample ID: IAQ_TP3_011421

Lab ID#: 2101453A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	15	3.9	36
Methylene Chloride	0.33	1.5	1.1	5.1

Client Sample ID: IAQ_TP3_011421

Lab ID#: 2101453A-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.37	0.16	1.8
Freon 11	0.033	0.21	0.18	1.2
Freon 113	0.033	0.067	0.25	0.52

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_TP3_011421

Lab ID#: 2101453A-05B

Chloroform	0.033	0.063	0.16	0.31
Carbon Tetrachloride	0.033	0.062	0.20	0.39
Benzene	0.082	2.8	0.26	9.0
Toluene	0.082	18	0.31	67
Tetrachloroethene	0.033	0.29	0.22	2.0
Ethyl Benzene	0.033	4.5	0.14	19
m,p-Xylene	0.065	21	0.28	92
o-Xylene	0.033	8.5	0.14	37

Client Sample ID: IAQ_TP1_011421

Lab ID#: 2101453A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	17	4.1	41
Methylene Chloride	0.35	0.68	1.2	2.3

Client Sample ID: IAQ_TP1_011421

Lab ID#: 2101453A-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.37	0.17	1.8
Freon 11	0.035	0.23	0.19	1.3
1,1-Dichloroethene	0.017	0.11	0.068	0.42
Freon 113	0.035	0.067	0.26	0.51
Chloroform	0.035	0.061	0.17	0.30
Carbon Tetrachloride	0.035	0.062	0.22	0.39
Benzene	0.086	1.6	0.28	5.0
Toluene	0.086	8.6	0.32	33
Tetrachloroethene	0.035	0.12	0.23	0.80
Ethyl Benzene	0.035	1.9	0.15	8.2
m,p-Xylene	0.069	9.2	0.30	40
o-Xylene	0.035	3.4	0.15	15

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_AA1_011421

Lab ID#: 2101453A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	15	4.0	36
Methylene Chloride	0.34	0.40	1.2	1.4

Client Sample ID: IAQ_AA1_011421

Lab ID#: 2101453A-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.37	0.17	1.8
Freon 11	0.034	0.21	0.19	1.2
Freon 113	0.034	0.069	0.26	0.53
Chloroform	0.034	0.046	0.16	0.22
Carbon Tetrachloride	0.034	0.062	0.21	0.39
Benzene	0.084	1.1	0.27	3.4
Toluene	0.084	5.4	0.32	20
Tetrachloroethene	0.034	0.068	0.23	0.46
Ethyl Benzene	0.034	0.84	0.15	3.6
m,p-Xylene	0.068	3.9	0.29	17
o-Xylene	0.034	1.4	0.15	6.1

Client Sample ID: IAQ_SC2_011421

Lab ID#: 2101453A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	3.3	620 E	7.7	1500 E
Methylene Chloride	0.65	0.80	2.3	2.8

Client Sample ID: IAQ_SC2_011421

Lab ID#: 2101453A-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.065	0.40	0.32	2.0
Freon 11	0.065	0.22	0.37	1.2

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_SC2_011421

Lab ID#: 2101453A-08B

Freon 113	0.065	0.067	0.50	0.51
Carbon Tetrachloride	0.065	0.11	0.41	0.71
Benzene	0.16	1.4	0.52	4.5
Toluene	0.16	47	0.61	180
Ethyl Benzene	0.065	3.0	0.28	13
m,p-Xylene	0.13	13	0.57	57
o-Xylene	0.065	3.8	0.28	17

Client Sample ID: IAQ_SC2_011421K

Lab ID#: 2101453A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	3.3	620 E	7.8	1500 E
Methylene Chloride	0.66	0.88	2.3	3.0

Client Sample ID: IAQ_SC2_011421K

Lab ID#: 2101453A-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.066	0.40	0.33	2.0
Freon 11	0.066	0.21	0.37	1.2
Freon 113	0.066	0.065 J	0.50	0.50 J
Benzene	0.16	1.5	0.53	4.8
Toluene	0.16	57	0.62	210
Ethyl Benzene	0.066	2.9	0.29	13
m,p-Xylene	0.13	12	0.57	53
o-Xylene	0.066	3.6	0.29	16

Client Sample ID: IAQ_AA3_011421

Lab ID#: 2101453A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	41 E	4.1	97 E
Methylene Chloride	0.34	0.86	1.2	3.0

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_AA3_011421

Lab ID#: 2101453A-10B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Freon 11	0.034	0.22	0.19	1.2
Freon 113	0.034	0.070	0.26	0.53
Chloroform	0.034	0.037	0.17	0.18
Carbon Tetrachloride	0.034	0.062	0.22	0.39
Benzene	0.086	0.61	0.27	2.0
Toluene	0.086	1.6	0.32	6.0
Tetrachloroethene	0.034	0.038	0.23	0.26
Ethyl Benzene	0.034	0.33	0.15	1.4
m,p-Xylene	0.069	1.4	0.30	6.0
o-Xylene	0.034	0.46	0.15	2.0

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Client Sample ID: IAQ_B3_011421

Lab ID#: 2101453A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012722**	**Date of Collection:**	**1/14/21 3:39:00 PM**
Dil. Factor:	**1.65**	**Date of Analysis:**	**1/28/21 09:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	16	3.9	38
Methylene Chloride	0.33	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	112	70-130

eurofins | Air Toxics

Client Sample ID: IAQ_B3_011421

Lab ID#: 2101453A-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012722sim**	**Date of Collection:**	**1/14/21 3:39:00 PM**
Dil. Factor:	**1.65**	**Date of Analysis:**	**1/28/21 09:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.39	0.16	1.9
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.23	0.18	1.3
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
Freon 113	0.033	0.068	0.25	0.52
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.039	0.16	0.19
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.064	0.21	0.40
Benzene	0.082	0.59	0.26	1.9
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.082	2.3	0.31	8.8
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.038	0.22	0.26
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	0.29	0.14	1.3
m,p-Xylene	0.066	1.1	0.29	4.7
o-Xylene	0.033	0.38	0.14	1.7
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected UJ	0.23	Not Detected UJ
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	112	70-130

eurofins | Air Toxics

Client Sample ID: IAQ_B2_011421

Lab ID#: 2101453A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012723**	**Date of Collection:**	**1/14/21 3:36:00 PM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**1/28/21 09:52 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	30	4.0	72
Methylene Chloride	0.34	Not Detected	1.2	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	79	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	119	70-130

eurofins | Air Toxics

Client Sample ID: IAQ_B2_011421

Lab ID#: 2101453A-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012723sim**	**Date of Collection:**	**1/14/21 3:36:00 PM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**1/28/21 09:52 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.22	0.19	1.2
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.069	0.26	0.53
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.044	0.16	0.21
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.061	0.21	0.38
Benzene	0.084	0.64	0.27	2.0
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.084	2.6	0.32	9.9
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.052	0.23	0.35
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.39	0.15	1.7
m,p-Xylene	0.068	1.6	0.29	6.9
o-Xylene	0.034	0.55	0.15	2.4
1,4-Dichlorobenzene	0.034	0.034	0.20	0.20
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected UJ	0.23	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	114	70-130

eurofins | Air Toxics

Client Sample ID: IAQ_B1_011421

Lab ID#: 2101453A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012724**	**Date of Collection:**	**1/14/21 3:38:00 PM**
Dil. Factor:	**1.72**	**Date of Analysis:**	**1/28/21 10:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	18	4.1	43
Methylene Chloride	0.34	0.35	1.2	1.2

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	82	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	108	70-130

eurofins | Air Toxics

Client Sample ID: IAQ_B1_011421

Lab ID#: 2101453A-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012724sim**	**Date of Collection:**	**1/14/21 3:38:00 PM**
Dil. Factor:	**1.72**	**Date of Analysis:**	**1/28/21 10:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.39	0.17	1.9
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Freon 11	0.034	0.22	0.19	1.3
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
Freon 113	0.034	0.069	0.26	0.52
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
Chloroform	0.034	0.052	0.17	0.26
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.034	0.066	0.22	0.42
Benzene	0.086	0.62	0.27	2.0
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.16	Not Detected
Toluene	0.086	1.7	0.32	6.5
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	0.037	0.23	0.25
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.26	0.15	1.1
m,p-Xylene	0.069	1.0	0.30	4.4
o-Xylene	0.034	0.36	0.15	1.6
1,4-Dichlorobenzene	0.034	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.21	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected UJ	0.24	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: IAQ_B1_011421K

Lab ID#: 2101453A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012725**	**Date of Collection:**	**1/14/21 3:38:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**1/28/21 11:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	17	4.0	40
Methylene Chloride	0.34	Not Detected	1.2	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	81	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: IAQ_B1_011421K

Lab ID#: 2101453A-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012725sim**	**Date of Collection:**	**1/14/21 3:38:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**1/28/21 11:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.22	0.19	1.2
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.068	0.26	0.52
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.049	0.16	0.24
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.066	0.21	0.41
Benzene	0.084	0.59	0.27	1.9
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.084	1.6	0.32	6.2
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.038	0.23	0.26
Chlorobenzene	0.034	Not Detected	0.15	Not Detected
Ethyl Benzene	0.034	0.26	0.14	1.1
m,p-Xylene	0.067	1.0	0.29	4.3
o-Xylene	0.034	0.36	0.14	1.6
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected UJ	0.23	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: IAQ_TP3_011421

Lab ID#: 2101453A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012726**	**Date of Collection:**	**1/14/21 5:15:00 PM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**1/28/21 11:56 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	15	3.9	36
Methylene Chloride	0.33	1.5	1.1	5.1

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	76	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: IAQ_TP3_011421

Lab ID#: 2101453A-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012726sim**	**Date of Collection:**	**1/14/21 5:15:00 PM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**1/28/21 11:56 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.37	0.16	1.8
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Freon 11	0.033	0.21	0.18	1.2
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
Freon 113	0.033	0.067	0.25	0.52
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.063	0.16	0.31
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.062	0.20	0.39
Benzene	0.082	2.8	0.26	9.0
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.033	Not Detected	0.15	Not Detected
Toluene	0.082	18	0.31	67
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.29	0.22	2.0
Chlorobenzene	0.033	Not Detected	0.15	Not Detected
Ethyl Benzene	0.033	4.5	0.14	19
m,p-Xylene	0.065	21	0.28	92
o-Xylene	0.033	8.5	0.14	37
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected UJ	0.22	Not Detected UJ
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: IAQ_TP1_011421

Lab ID#: 2101453A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012727**	**Date of Collection:**	**1/14/21 5:10:00 PM**
Dil. Factor:	**1.73**	**Date of Analysis:**	**1/28/21 12:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	17	4.1	41
Methylene Chloride	0.35	0.68	1.2	2.3

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	76	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: IAQ_TP1_011421

Lab ID#: 2101453A-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012727sim**	**Date of Collection:**	**1/14/21 5:10:00 PM**
Dil. Factor:	**1.73**	**Date of Analysis:**	**1/28/21 12:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.37	0.17	1.8
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Freon 11	0.035	0.23	0.19	1.3
1,1-Dichloroethene	0.017	0.11	0.068	0.42
Freon 113	0.035	0.067	0.26	0.51
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.061	0.17	0.30
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.062	0.22	0.39
Benzene	0.086	1.6	0.28	5.0
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.086	8.6	0.32	33
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.12	0.23	0.80
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	1.9	0.15	8.2
m,p-Xylene	0.069	9.2	0.30	40
o-Xylene	0.035	3.4	0.15	15
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected UJ	0.24	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	79	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: IAQ_AA1_011421

Lab ID#: 2101453A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012807**	**Date of Collection:**	**1/14/21 5:16:00 PM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**1/28/21 06:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	15	4.0	36
Methylene Chloride	0.34	0.40	1.2	1.4

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	81	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	111	70-130

eurofins | Air Toxics

Client Sample ID: IAQ_AA1_011421

Lab ID#: 2101453A-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012807sim**	**Date of Collection:**	**1/14/21 5:16:00 PM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**1/28/21 06:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.37	0.17	1.8
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.21	0.19	1.2
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.069	0.26	0.53
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.046	0.16	0.22
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.062	0.21	0.39
Benzene	0.084	1.1	0.27	3.4
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.084	5.4	0.32	20
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.068	0.23	0.46
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.84	0.15	3.6
m,p-Xylene	0.068	3.9	0.29	17
o-Xylene	0.034	1.4	0.15	6.1
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected UJ	0.23	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: IAQ_SC2_011421

Lab ID#: 2101453A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012808**	**Date of Collection:**	**1/14/21 4:22:00 PM**
Dil. Factor:	**3.26**	**Date of Analysis:**	**1/28/21 07:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	3.3	620 E	7.7	1500 E
Methylene Chloride	0.65	0.80	2.3	2.8

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: IAQ_SC2_011421

Lab ID#: 2101453A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012808sim**	**Date of Collection:**	**1/14/21 4:22:00 PM**
Dil. Factor:	**3.26**	**Date of Analysis:**	**1/28/21 07:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.065	0.40	0.32	2.0
Vinyl Chloride	0.033	Not Detected	0.083	Not Detected
Freon 11	0.065	0.22	0.37	1.2
1,1-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Freon 113	0.065	0.067	0.50	0.51
1,1-Dichloroethane	0.065	Not Detected	0.26	Not Detected
cis-1,2-Dichloroethene	0.065	Not Detected	0.26	Not Detected
Chloroform	0.065	Not Detected	0.32	Not Detected
1,1,1-Trichloroethane	0.065	Not Detected	0.36	Not Detected
Carbon Tetrachloride	0.065	0.11	0.41	0.71
Benzene	0.16	1.4	0.52	4.5
1,2-Dichloroethane	0.065	Not Detected	0.26	Not Detected
Trichloroethene	0.065	Not Detected	0.35	Not Detected
trans-1,3-Dichloropropene	0.065	Not Detected	0.30	Not Detected
Toluene	0.16	47	0.61	180
1,1,2-Trichloroethane	0.065	Not Detected	0.36	Not Detected
Tetrachloroethene	0.065	Not Detected	0.44	Not Detected
Chlorobenzene	0.065	Not Detected	0.30	Not Detected
Ethyl Benzene	0.065	3.0	0.28	13
m,p-Xylene	0.13	13	0.57	57
o-Xylene	0.065	3.8	0.28	17
1,4-Dichlorobenzene	0.065	Not Detected	0.39	Not Detected
1,2-Dichlorobenzene	0.065	Not Detected	0.39	Not Detected
1,1,2,2-Tetrachloroethane	0.065	Not Detected UJ	0.45	Not Detected UJ
Methyl tert-butyl ether	0.33	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.33	Not Detected	1.3	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	76	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: IAQ_SC2_011421K

Lab ID#: 2101453A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012810**	**Date of Collection:**	**1/14/21 4:22:00 PM**
Dil. Factor:	**3.30**	**Date of Analysis:**	**1/28/21 08:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	3.3	620 E	7.8	1500 E
Methylene Chloride	0.66	0.88	2.3	3.0

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	74	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_SC2_011421K

Lab ID#: 2101453A-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012810sim**	**Date of Collection:**	**1/14/21 4:22:00 PM**
Dil. Factor:	**3.30**	**Date of Analysis:**	**1/28/21 08:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.066	0.40	0.33	2.0
Vinyl Chloride	0.033	Not Detected	0.084	Not Detected
Freon 11	0.066	0.21	0.37	1.2
1,1-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Freon 113	0.066	0.065 J	0.50	0.50 J
1,1-Dichloroethane	0.066	Not Detected	0.27	Not Detected
cis-1,2-Dichloroethene	0.066	Not Detected	0.26	Not Detected
Chloroform	0.066	Not Detected	0.32	Not Detected
1,1,1-Trichloroethane	0.066	Not Detected	0.36	Not Detected
Carbon Tetrachloride	0.066	Not Detected	0.42	Not Detected
Benzene	0.16	1.5	0.53	4.8
1,2-Dichloroethane	0.066	Not Detected	0.27	Not Detected
Trichloroethene	0.066	Not Detected	0.35	Not Detected
trans-1,3-Dichloropropene	0.066	Not Detected	0.30	Not Detected
Toluene	0.16	57	0.62	210
1,1,2-Trichloroethane	0.066	Not Detected	0.36	Not Detected
Tetrachloroethene	0.066	Not Detected	0.45	Not Detected
Chlorobenzene	0.066	Not Detected	0.30	Not Detected
Ethyl Benzene	0.066	2.9	0.29	13
m,p-Xylene	0.13	12	0.57	53
o-Xylene	0.066	3.6	0.29	16
1,4-Dichlorobenzene	0.066	Not Detected	0.40	Not Detected
1,2-Dichlorobenzene	0.066	Not Detected	0.40	Not Detected
1,1,2,2-Tetrachloroethane	0.066	Not Detected UJ	0.45	Not Detected UJ
Methyl tert-butyl ether	0.33	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.33	Not Detected	1.3	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	76	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IAQ_AA3_011421

Lab ID#: 2101453A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012809**	**Date of Collection:**	**1/14/21 4:24:00 PM**
Dil. Factor:	**1.72**	**Date of Analysis:**	**1/28/21 08:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	41 E	4.1	97 E
Methylene Chloride	0.34	0.86	1.2	3.0

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: IAQ_AA3_011421

Lab ID#: 2101453A-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012809sim**	**Date of Collection:**	**1/14/21 4:24:00 PM**
Dil. Factor:	**1.72**	**Date of Analysis:**	**1/28/21 08:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Freon 11	0.034	0.22	0.19	1.2
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
Freon 113	0.034	0.070	0.26	0.53
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
Chloroform	0.034	0.037	0.17	0.18
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.034	0.062	0.22	0.39
Benzene	0.086	0.61	0.27	2.0
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.16	Not Detected
Toluene	0.086	1.6	0.32	6.0
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	0.038	0.23	0.26
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.33	0.15	1.4
m,p-Xylene	0.069	1.4	0.30	6.0
o-Xylene	0.034	0.46	0.15	2.0
1,4-Dichlorobenzene	0.034	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.21	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected UJ	0.24	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101453A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012706d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.0	Not Detected	2.4	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101453A-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012706simd**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected UJ	0.14	Not Detected UJ
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101453A-11C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 06:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.0	Not Detected	2.4	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101453A-11D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012806sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 06:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected UJ	0.14	Not Detected UJ
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: CCV

Lab ID#: 2101453A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 02:12 PM**	

Compound	**%Recovery**
Acetone	80
Methylene Chloride	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	123	70-130

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Client Sample ID: CCV

Lab ID#: 2101453A-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012702sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 02:12 PM**	

Compound	**%Recovery**
Freon 12	75
Vinyl Chloride	74
Freon 11	95
1,1-Dichloroethene	87
Freon 113	95
1,1-Dichloroethane	76
cis-1,2-Dichloroethene	86
Chloroform	75
1,1,1-Trichloroethane	83
Carbon Tetrachloride	72
Benzene	83
1,2-Dichloroethane	73
Trichloroethene	92
trans-1,3-Dichloropropene	86
Toluene	90
1,1,2-Trichloroethane	84
Tetrachloroethene	102
Chlorobenzene	90
Ethyl Benzene	103
m,p-Xylene	97
o-Xylene	93
1,4-Dichlorobenzene	89
1,2-Dichlorobenzene	88
1,1,2,2-Tetrachloroethane	69 Q
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	79	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	120	70-130

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Client Sample ID: CCV

Lab ID#: 2101453A-12C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 03:11 PM**

Compound	**%Recovery**
Acetone	79
Methylene Chloride	80

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	73	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	120	70-130

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Client Sample ID: CCV

Lab ID#: 2101453A-12D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012802sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 03:11 PM**	

Compound	**%Recovery**
Freon 12	75
Vinyl Chloride	74
Freon 11	94
1,1-Dichloroethene	87
Freon 113	95
1,1-Dichloroethane	75
cis-1,2-Dichloroethene	86
Chloroform	74
1,1,1-Trichloroethane	83
Carbon Tetrachloride	70
Benzene	81
1,2-Dichloroethane	71
Trichloroethene	91
trans-1,3-Dichloropropene	86
Toluene	88
1,1,2-Trichloroethane	82
Tetrachloroethene	102
Chlorobenzene	89
Ethyl Benzene	100
m,p-Xylene	96
o-Xylene	93
1,4-Dichlorobenzene	86
1,2-Dichlorobenzene	85
1,1,2,2-Tetrachloroethane	66 Q
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	76	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	117	70-130

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Client Sample ID: LCS

Lab ID#: 2101453A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:04 PM**	

Compound	**%Recovery**	**Method Limits**
Acetone	76	70-130
Methylene Chloride	80	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	73	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	119	70-130

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Client Sample ID: LCSD

Lab ID#: 2101453A-13AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:44 PM**	

Compound	**%Recovery**	**Method Limits**
Acetone	76	70-130
Methylene Chloride	77	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	73	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	116	70-130

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Client Sample ID: LCS

Lab ID#: 2101453A-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012703sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:04 PM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	75	70-130
Vinyl Chloride	74	70-130
Freon 11	92	70-130
1,1-Dichloroethene	86	70-130
Freon 113	94	70-130
1,1-Dichloroethane	73	70-130
cis-1,2-Dichloroethene	84	70-130
Chloroform	72	70-130
1,1,1-Trichloroethane	81	70-130
Carbon Tetrachloride	85	60-140
Benzene	80	70-130
1,2-Dichloroethane	70	70-130
Trichloroethene	90	70-130
trans-1,3-Dichloropropene	86	70-130
Toluene	86	70-130
1,1,2-Trichloroethane	81	70-130
Tetrachloroethene	99	70-130
Chlorobenzene	88	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	96	70-130
o-Xylene	91	70-130
1,4-Dichlorobenzene	87	70-130
1,2-Dichlorobenzene	84	70-130
1,1,2,2-Tetrachloroethane	65 Q	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	82	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	118	70-130

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Client Sample ID: LCSD

Lab ID#: 2101453A-13BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012704sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:44 PM**	

Compound	%Recovery	Method Limits
Freon 12	73	70-130
Vinyl Chloride	72	70-130
Freon 11	91	70-130
1,1-Dichloroethene	85	70-130
Freon 113	93	70-130
1,1-Dichloroethane	71	70-130
cis-1,2-Dichloroethene	83	70-130
Chloroform	70	70-130
1,1,1-Trichloroethane	79	70-130
Carbon Tetrachloride	82	60-140
Benzene	77	70-130
1,2-Dichloroethane	68 Q	70-130
Trichloroethene	88	70-130
trans-1,3-Dichloropropene	86	70-130
Toluene	81	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	98	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	88	70-130
o-Xylene	83	70-130
1,4-Dichlorobenzene	79	70-130
1,2-Dichlorobenzene	76	70-130
1,1,2,2-Tetrachloroethane	65 Q	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	80	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	115	70-130

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Client Sample ID: LCS

Lab ID#: 2101453A-13C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 03:56 PM**	

Compound	**%Recovery**	**Method Limits**
Acetone	75	70-130
Methylene Chloride	76	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	71	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	119	70-130

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Client Sample ID: LCSD

Lab ID#: 2101453A-13CC

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 04:36 PM**	

Compound	**%Recovery**	**Method Limits**
Acetone	76	70-130
Methylene Chloride	78	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	74	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	120	70-130

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Client Sample ID: LCS

Lab ID#: 2101453A-13D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012803sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 03:56 PM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	73	70-130
Vinyl Chloride	73	70-130
Freon 11	91	70-130
1,1-Dichloroethene	85	70-130
Freon 113	94	70-130
1,1-Dichloroethane	71	70-130
cis-1,2-Dichloroethene	83	70-130
Chloroform	70	70-130
1,1,1-Trichloroethane	80	70-130
Carbon Tetrachloride	82	60-140
Benzene	78	70-130
1,2-Dichloroethane	68 Q	70-130
Trichloroethene	88	70-130
trans-1,3-Dichloropropene	85	70-130
Toluene	83	70-130
1,1,2-Trichloroethane	79	70-130
Tetrachloroethene	98	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	93	70-130
o-Xylene	90	70-130
1,4-Dichlorobenzene	86	70-130
1,2-Dichlorobenzene	84	70-130
1,1,2,2-Tetrachloroethane	64 Q	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	80	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	76	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	117	70-130

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Client Sample ID: LCSD

Lab ID#: 2101453A-13DD

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012804sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 04:36 PM**	

Compound	%Recovery	Method Limits
Freon 12	74	70-130
Vinyl Chloride	74	70-130
Freon 11	91	70-130
1,1-Dichloroethene	86	70-130
Freon 113	95	70-130
1,1-Dichloroethane	72	70-130
cis-1,2-Dichloroethene	84	70-130
Chloroform	70	70-130
1,1,1-Trichloroethane	80	70-130
Carbon Tetrachloride	82	60-140
Benzene	77	70-130
1,2-Dichloroethane	67 Q	70-130
Trichloroethene	88	70-130
trans-1,3-Dichloropropene	87	70-130
Toluene	81	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	99	70-130
Chlorobenzene	87	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	91	70-130
o-Xylene	86	70-130
1,4-Dichlorobenzene	81	70-130
1,2-Dichlorobenzene	78	70-130
1,1,2,2-Tetrachloroethane	64 Q	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	81	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	75	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	117	70-130

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only
PID: _____ Workorder #: 2101453

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: demaximis PID:
Project Name: Omega-OU1 IAQ Jan 2021
Project Manager: Jaime Dinello P.O.# 3139
Sampler: Khalid Azhar
Site Name: Omega Chemical

Special Instructions/Notes:
REPORT IN UG/MG AND PPB. Refer to project specs.

Turnaround Time (Rush surcharges may apply): 10 day

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt	Lab Use Only Final (psig) Gas: N_2 / He	Requested Analyses TO-15 SIM			
01A	IAQ_B3_011421	6L2261	24304	1/14/2021	07:39	1/14/2021	15:39	-29	-6			X			
02A	IAQ_B2_011421	6L0607	25187	1/14/2021	07:36	1/14/2021	15:36	-30	-6			X			
03A	IAQ_B1_011421	6L2089	23777	1/14/2021	7:37	1/14/2021	15:38	-30	-5.5			X			
04A	IAQ_B1_011421K	6L0948	24283	1/14/2021	07:37	1/14/2021	15:38	-26	-5.5			X			
05A	IAQ_TP3_011421	6L2499	23218	1/14/2021	09:15	1/14/2021	17:15	-27	-5			X			
06A	IAQ_TP1_011421	6L2405	23503	1/14/2021	09:13	1/14/2021	17:10	-29	-6			X			
07A	IAQ_AA1_011421	6L2331	23652	1/14/2021	09:16	1/14/2021	17:16	-30	-6			X			
08A	IAQ_SC2_011421	6L2269	23205	1/14/2021	08:22	1/14/2021	16:22	-29	-4.5			X			
09A	IAQ_SC2_011421K	6L2105	25202	1/14/2021	08:22	1/14/2021	16:22	-27	-5			X			
10A	IAQ_AA3_011421	6L0456	24534	1/14/2021	08:24	1/14/2021	16:24	-30	-5.5			X			
11A	IAQ_SC1_011421	6L2647	24225	1/14/2021	08:25	1/14/2021	16:25	-29	-3.5			X			
12A	IAQ_SC3_011421	6L1790	23303	1/14/2021	08:26	1/14/2021	16:26	-30	-2			X			
13A	IAQ_SUN1_011521	6L0229	24312	1/15/2021	08:35	1/15/2021	16:35	-29	-5.5			X			
14A	IAQ_SUN2_011521	6L0792	24014	1/15/2021	08:36	1/15/2021	16:36	-30	-6			X			
15A	IAQ_AA95_011521	6L2856	23564	1/15/2021	08:34	1/15/2021	16:34	-30	-7			X			
HW	01/22/21														

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	1/15/21	1715	[signature]	1/18/21	0921

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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1/29/2021
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega-OU1 IAQ Jan 2021
Project #:
Workorder #: 2101453B

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/18/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2101453B

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	3139-GL 6403
FAX:	949.679.9078	**PROJECT #**	Omega-OU1 IAQ Jan 2021
DATE RECEIVED:	01/18/2021	**CONTACT:**	Jade White
DATE COMPLETED:	01/29/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
11A	IAQ_SC1_011421	Modified TO-15	5.3 "Hg	4.8 psi
11B	IAQ_SC1_011421	Modified TO-15	5.3 "Hg	4.8 psi
12A	IAQ_SC3_011421	Modified TO-15	3.3 "Hg	4.9 psi
12B	IAQ_SC3_011421	Modified TO-15	3.3 "Hg	4.9 psi
13A	IAQ_SUN1_011521	Modified TO-15	6.5 "Hg	4.9 psi
13B	IAQ_SUN1_011521	Modified TO-15	6.5 "Hg	4.9 psi
14A	IAQ_SUN2_011521	Modified TO-15	6.3 "Hg	4.9 psi
14B	IAQ_SUN2_011521	Modified TO-15	6.3 "Hg	4.9 psi
15A	IAQ_AA95__011521	Modified TO-15	7.3 "Hg	4.9 psi
15B	IAQ_AA95__011521	Modified TO-15	7.3 "Hg	4.9 psi
16A	IAQ_MR1_011421	Modified TO-15	5.3 "Hg	4.9 psi
16B	IAQ_MR1_011421	Modified TO-15	5.3 "Hg	4.9 psi
17A	Lab Blank	Modified TO-15	NA	NA
17B	Lab Blank	Modified TO-15	NA	NA
18A	CCV	Modified TO-15	NA	NA
18B	CCV	Modified TO-15	NA	NA
19A	LCS	Modified TO-15	NA	NA
19AA	LCSD	Modified TO-15	NA	NA
19B	LCS	Modified TO-15	NA	NA
19BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 01/29/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
DeMaximis, Inc
Workorder# 2101453B

Six 6 Liter Summa Canister (100% SIM Ambient) samples were received on January 18, 2021. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

A revised Chain of Custody (COC) was provided by the client on 1/26/21.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_SC1_011421

Lab ID#: 2101453B-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	140 E	3.8	340 E
Methylene Chloride	0.32	0.88	1.1	3.1

Client Sample ID: IAQ_SC1_011421

Lab ID#: 2101453B-11B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.41	0.16	2.0
Freon 11	0.032	0.22	0.18	1.2
Freon 113	0.032	0.066	0.25	0.51
Chloroform	0.032	0.040	0.16	0.19
Carbon Tetrachloride	0.032	0.061	0.20	0.38
Benzene	0.080	1.0	0.26	3.2
Toluene	0.080	3.9	0.30	15
Tetrachloroethene	0.032	0.039	0.22	0.27
Ethyl Benzene	0.032	0.84	0.14	3.6
m,p-Xylene	0.064	3.9	0.28	17
o-Xylene	0.032	1.2	0.14	5.3

Client Sample ID: IAQ_SC3_011421

Lab ID#: 2101453B-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.5	130 E	3.6	310 E
Methylene Chloride	0.30	0.59	1.0	2.1

Client Sample ID: IAQ_SC3_011421

Lab ID#: 2101453B-12B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.030	0.38	0.15	1.8
Freon 11	0.030	0.22	0.17	1.2

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_SC3_011421

Lab ID#: 2101453B-12B

Freon 113	0.030	0.065	0.23	0.50
Chloroform	0.030	0.038	0.15	0.19
Carbon Tetrachloride	0.030	0.061	0.19	0.38
Benzene	0.075	0.82	0.24	2.6
Toluene	0.075	2.8	0.28	10
Tetrachloroethene	0.030	0.035	0.20	0.24
Ethyl Benzene	0.030	0.71	0.13	3.1
m,p-Xylene	0.060	3.3	0.26	14
o-Xylene	0.030	1.0	0.13	4.5
1,4-Dichlorobenzene	0.030	0.031	0.18	0.19

Client Sample ID: IAQ_SUN1_011521

Lab ID#: 2101453B-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	14	4.0	35
Methylene Chloride	0.34	0.81	1.2	2.8

Client Sample ID: IAQ_SUN1_011521

Lab ID#: 2101453B-13B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.39	0.17	1.9
Freon 11	0.034	0.22	0.19	1.2
Freon 113	0.034	0.069	0.26	0.53
Chloroform	0.034	0.038	0.17	0.18
Carbon Tetrachloride	0.034	0.064	0.21	0.40
Benzene	0.085	0.42	0.27	1.3
Toluene	0.085	1.4	0.32	5.4
Tetrachloroethene	0.034	0.066	0.23	0.45
Ethyl Benzene	0.034	0.20	0.15	0.89
m,p-Xylene	0.068	0.80	0.30	3.5
o-Xylene	0.034	0.28	0.15	1.2

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_SUN2_011521

Lab ID#: 2101453B-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	13	4.0	31
Methylene Chloride	0.34	0.82	1.2	2.8

Client Sample ID: IAQ_SUN2_011521

Lab ID#: 2101453B-14B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Freon 11	0.034	0.22	0.19	1.2
Freon 113	0.034	0.067	0.26	0.51
Chloroform	0.034	0.033 J	0.16	0.16 J
Carbon Tetrachloride	0.034	0.062	0.21	0.39
Benzene	0.084	0.41	0.27	1.3
Toluene	0.084	1.2	0.32	4.7
Tetrachloroethene	0.034	0.074	0.23	0.50
Ethyl Benzene	0.034	0.18	0.15	0.76
m,p-Xylene	0.068	0.69	0.29	3.0
o-Xylene	0.034	0.25	0.15	1.1

Client Sample ID: IAQ_AA95__011521

Lab ID#: 2101453B-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.8	13	4.2	30
Methylene Chloride	0.35	0.87	1.2	3.0

Client Sample ID: IAQ_AA95__011521

Lab ID#: 2101453B-15B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.38	0.17	1.9
Freon 11	0.035	0.22	0.20	1.2

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IAQ_AA95__011521

Lab ID#: 2101453B-15B

Freon 113	0.035	0.069	0.27	0.53
Chloroform	0.035	0.038	0.17	0.18
Carbon Tetrachloride	0.035	0.062	0.22	0.39
Benzene	0.088	0.42	0.28	1.3
1,2-Dichloroethane	0.035	0.10	0.14	0.41
Toluene	0.088	1.7	0.33	6.4
Tetrachloroethene	0.035	0.13	0.24	0.90
Ethyl Benzene	0.035	0.17	0.15	0.73
m,p-Xylene	0.070	0.64	0.30	2.8
o-Xylene	0.035	0.23	0.15	1.0

Client Sample ID: IAQ_MR1_011421

Lab ID#: 2101453B-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	16	3.8	38
Methylene Chloride	0.32	0.41	1.1	1.4

Client Sample ID: IAQ_MR1_011421

Lab ID#: 2101453B-16B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.38	0.16	1.9
Freon 11	0.032	0.22	0.18	1.2
Freon 113	0.032	0.069	0.25	0.52
Chloroform	0.032	0.045	0.16	0.22
Carbon Tetrachloride	0.032	0.061	0.20	0.38
Benzene	0.081	4.0	0.26	13
Toluene	0.081	10	0.30	38
Tetrachloroethene	0.032	0.037	0.22	0.25
Ethyl Benzene	0.032	0.92	0.14	4.0
m,p-Xylene	0.065	4.0	0.28	17
o-Xylene	0.032	1.3	0.14	5.8

eurofins | Air Toxics

Client Sample ID: IAQ_SC1_011421

Lab ID#: 2101453B-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012716**	**Date of Collection:**	**1/14/21 4:25:00 PM**
Dil. Factor:	**1.61**	**Date of Analysis:**	**1/28/21 12:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	140 E	3.8	340 E
Methylene Chloride	0.32	0.88	1.1	3.1

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	79	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: IAQ_SC1_011421

Lab ID#: 2101453B-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012716sim**	**Date of Collection:**	**1/14/21 4:25:00 PM**
Dil. Factor:	**1.61**	**Date of Analysis:**	**1/28/21 12:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.41	0.16	2.0
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Freon 11	0.032	0.22	0.18	1.2
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Freon 113	0.032	0.066	0.25	0.51
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	0.040	0.16	0.19
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.032	0.061	0.20	0.38
Benzene	0.080	1.0	0.26	3.2
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.15	Not Detected
Toluene	0.080	3.9	0.30	15
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	0.039	0.22	0.27
Chlorobenzene	0.032	Not Detected	0.15	Not Detected
Ethyl Benzene	0.032	0.84	0.14	3.6
m,p-Xylene	0.064	3.9	0.28	17
o-Xylene	0.032	1.2	0.14	5.3
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected UJ	0.22	Not Detected UJ
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: IAQ_SC3_011421

Lab ID#: 2101453B-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012717**	**Date of Collection:**	**1/14/21 4:26:00 PM**
Dil. Factor:	**1.50**	**Date of Analysis:**	**1/28/21 05:48 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.5	130 E	3.6	310 E
Methylene Chloride	0.30	0.59	1.0	2.1

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: IAQ_SC3_011421

Lab ID#: 2101453B-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012717sim**	**Date of Collection:**	**1/14/21 4:26:00 PM**
Dil. Factor:	**1.50**	**Date of Analysis:**	**1/28/21 05:48 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.030	0.38	0.15	1.8
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Freon 11	0.030	0.22	0.17	1.2
1,1-Dichloroethene	0.015	Not Detected	0.059	Not Detected
Freon 113	0.030	0.065	0.23	0.50
1,1-Dichloroethane	0.030	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
Chloroform	0.030	0.038	0.15	0.19
1,1,1-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.030	0.061	0.19	0.38
Benzene	0.075	0.82	0.24	2.6
1,2-Dichloroethane	0.030	Not Detected	0.12	Not Detected
Trichloroethene	0.030	Not Detected	0.16	Not Detected
trans-1,3-Dichloropropene	0.030	Not Detected	0.14	Not Detected
Toluene	0.075	2.8	0.28	10
1,1,2-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	0.035	0.20	0.24
Chlorobenzene	0.030	Not Detected	0.14	Not Detected
Ethyl Benzene	0.030	0.71	0.13	3.1
m,p-Xylene	0.060	3.3	0.26	14
o-Xylene	0.030	1.0	0.13	4.5
1,4-Dichlorobenzene	0.030	0.031	0.18	0.19
1,2-Dichlorobenzene	0.030	Not Detected	0.18	Not Detected
1,1,2,2-Tetrachloroethane	0.030	Not Detected UJ	0.20	Not Detected UJ
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: IAQ_SUN1_011521

Lab ID#: 2101453B-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012718**	**Date of Collection:**	**1/15/21 4:35:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**1/28/21 06:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	14	4.0	35
Methylene Chloride	0.34	0.81	1.2	2.8

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: IAQ_SUN1_011521

Lab ID#: 2101453B-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012718sim**	**Date of Collection:**	**1/15/21 4:35:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**1/28/21 06:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.39	0.17	1.9
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.22	0.19	1.2
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.069	0.26	0.53
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.038	0.17	0.18
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.064	0.21	0.40
Benzene	0.085	0.42	0.27	1.3
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.085	1.4	0.32	5.4
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.066	0.23	0.45
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.20	0.15	0.89
m,p-Xylene	0.068	0.80	0.30	3.5
o-Xylene	0.034	0.28	0.15	1.2
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected UJ	0.23	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: IAQ_SUN2_011521

Lab ID#: 2101453B-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012719**	**Date of Collection:**	**1/15/21 4:36:00 PM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**1/28/21 07:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.7	13	4.0	31
Methylene Chloride	0.34	0.82	1.2	2.8

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	83	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: IAQ_SUN2_011521

Lab ID#: 2101453B-14B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012719sim**	**Date of Collection:**	**1/15/21 4:36:00 PM**
Dil. Factor:	**1.69**	**Date of Analysis:**	**1/28/21 07:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Freon 11	0.034	0.22	0.19	1.2
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Freon 113	0.034	0.067	0.26	0.51
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.033 J	0.16	0.16 J
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.062	0.21	0.39
Benzene	0.084	0.41	0.27	1.3
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
trans-1,3-Dichloropropene	0.034	Not Detected	0.15	Not Detected
Toluene	0.084	1.2	0.32	4.7
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.074	0.23	0.50
Chlorobenzene	0.034	Not Detected	0.16	Not Detected
Ethyl Benzene	0.034	0.18	0.15	0.76
m,p-Xylene	0.068	0.69	0.29	3.0
o-Xylene	0.034	0.25	0.15	1.1
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,2-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected UJ	0.23	Not Detected UJ
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: IAQ_AA95__011521

Lab ID#: 2101453B-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012720**	**Date of Collection:**	**1/15/21 4:34:00 PM**
Dil. Factor:	**1.76**	**Date of Analysis:**	**1/28/21 07:52 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.8	13	4.2	30
Methylene Chloride	0.35	0.87	1.2	3.0

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: IAQ_AA95__011521

Lab ID#: 2101453B-15B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012720sim**	**Date of Collection:**	**1/15/21 4:34:00 PM**
Dil. Factor:	**1.76**	**Date of Analysis:**	**1/28/21 07:52 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.38	0.17	1.9
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Freon 11	0.035	0.22	0.20	1.2
1,1-Dichloroethene	0.018	Not Detected	0.070	Not Detected
Freon 113	0.035	0.069	0.27	0.53
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.038	0.17	0.18
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.062	0.22	0.39
Benzene	0.088	0.42	0.28	1.3
1,2-Dichloroethane	0.035	0.10	0.14	0.41
Trichloroethene	0.035	Not Detected	0.19	Not Detected
trans-1,3-Dichloropropene	0.035	Not Detected	0.16	Not Detected
Toluene	0.088	1.7	0.33	6.4
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.13	0.24	0.90
Chlorobenzene	0.035	Not Detected	0.16	Not Detected
Ethyl Benzene	0.035	0.17	0.15	0.73
m,p-Xylene	0.070	0.64	0.30	2.8
o-Xylene	0.035	0.23	0.15	1.0
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,2-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected UJ	0.24	Not Detected UJ
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: IAQ_MR1_011421

Lab ID#: 2101453B-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012721**	**Date of Collection:**	**1/14/21 7:21:00 AM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**1/28/21 08:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.6	16	3.8	38
Methylene Chloride	0.32	0.41	1.1	1.4

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: IAQ_MR1_011421

Lab ID#: 2101453B-16B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012721sim**	**Date of Collection:**	**1/14/21 7:21:00 AM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**1/28/21 08:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.38	0.16	1.9
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Freon 11	0.032	0.22	0.18	1.2
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Freon 113	0.032	0.069	0.25	0.52
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	0.045	0.16	0.22
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.032	0.061	0.20	0.38
Benzene	0.081	4.0	0.26	13
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
trans-1,3-Dichloropropene	0.032	Not Detected	0.15	Not Detected
Toluene	0.081	10	0.30	38
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	0.037	0.22	0.25
Chlorobenzene	0.032	Not Detected	0.15	Not Detected
Ethyl Benzene	0.032	0.92	0.14	4.0
m,p-Xylene	0.065	4.0	0.28	17
o-Xylene	0.032	1.3	0.14	5.8
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,2-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected UJ	0.22	Not Detected UJ
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101453B-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012706d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1.0	Not Detected	2.4	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101453B-17B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012706simd**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Freon 11	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Freon 113	0.020	Not Detected	0.15	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
trans-1,3-Dichloropropene	0.020	Not Detected	0.091	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Chlorobenzene	0.020	Not Detected	0.092	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,2-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected UJ	0.14	Not Detected UJ
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	110	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2101453B-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 02:12 PM**	

Compound	**%Recovery**
Acetone	80
Methylene Chloride	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	123	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2101453B-18B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012702sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 02:12 PM**

Compound	%Recovery
Freon 12	75
Vinyl Chloride	74
Freon 11	95
1,1-Dichloroethene	87
Freon 113	95
1,1-Dichloroethane	76
cis-1,2-Dichloroethene	86
Chloroform	75
1,1,1-Trichloroethane	83
Carbon Tetrachloride	72
Benzene	83
1,2-Dichloroethane	73
Trichloroethene	92
trans-1,3-Dichloropropene	86
Toluene	90
1,1,2-Trichloroethane	84
Tetrachloroethene	102
Chlorobenzene	90
Ethyl Benzene	103
m,p-Xylene	97
o-Xylene	93
1,4-Dichlorobenzene	89
1,2-Dichlorobenzene	88
1,1,2,2-Tetrachloroethane	69 Q
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	79	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	120	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2101453B-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:04 PM**	

Compound	**%Recovery**	**Method Limits**
Acetone	76	70-130
Methylene Chloride	80	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	73	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	119	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 2101453B-19AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:44 PM**	

Compound	**%Recovery**	**Method Limits**
Acetone	76	70-130
Methylene Chloride	77	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	73	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	116	70-130

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Client Sample ID: LCS

Lab ID#: 2101453B-19B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012703sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:04 PM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	75	70-130
Vinyl Chloride	74	70-130
Freon 11	92	70-130
1,1-Dichloroethene	86	70-130
Freon 113	94	70-130
1,1-Dichloroethane	73	70-130
cis-1,2-Dichloroethene	84	70-130
Chloroform	72	70-130
1,1,1-Trichloroethane	81	70-130
Carbon Tetrachloride	85	60-140
Benzene	80	70-130
1,2-Dichloroethane	70	70-130
Trichloroethene	90	70-130
trans-1,3-Dichloropropene	86	70-130
Toluene	86	70-130
1,1,2-Trichloroethane	81	70-130
Tetrachloroethene	99	70-130
Chlorobenzene	88	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	96	70-130
o-Xylene	91	70-130
1,4-Dichlorobenzene	87	70-130
1,2-Dichlorobenzene	84	70-130
1,1,2,2-Tetrachloroethane	65 Q	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	82	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	118	70-130

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Client Sample ID: LCSD

Lab ID#: 2101453B-19BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v012704sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/21 03:44 PM**	

Compound	%Recovery	Method Limits
Freon 12	73	70-130
Vinyl Chloride	72	70-130
Freon 11	91	70-130
1,1-Dichloroethene	85	70-130
Freon 113	93	70-130
1,1-Dichloroethane	71	70-130
cis-1,2-Dichloroethene	83	70-130
Chloroform	70	70-130
1,1,1-Trichloroethane	79	70-130
Carbon Tetrachloride	82	60-140
Benzene	77	70-130
1,2-Dichloroethane	68 Q	70-130
Trichloroethene	88	70-130
trans-1,3-Dichloropropene	86	70-130
Toluene	81	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	98	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	88	70-130
o-Xylene	83	70-130
1,4-Dichlorobenzene	79	70-130
1,2-Dichlorobenzene	76	70-130
1,1,2,2-Tetrachloroethane	65 Q	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	80	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	115	70-130

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only
PID: _____ Workorder #: 2101453

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: demaximis PID:
Project Name: Omega-OU1 IAQ Jan 2021
Project Manager: Jaime Dinello P.O.# 3139
Sampler: Khalid Azhar
Site Name: Omega Chemical

Special Instructions/Notes:
REPORT IN UG/MG AND PPB. Refer to project specs.

Turnaround Time (Rush surcharges may apply): 10 day

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt	Lab Use Only Final (psig) Gas: N_2 / He	Requested Analyses TO-15 SIM			
	IAQ_B3_011421	6L2261	24304	1/14/2021	07:39	1/14/2021	15:39	-29	-6			X			
	IAQ_B2_011421	6L0607	25187	1/14/2021	07:36	1/14/2021	15:36	-30	-6			X			
	IAQ_B1_011421	6L2089	23777	1/14/2021	7:37	1/14/2021	15:38	-30	-5.5			X			
	IAQ_B1_011421K	6L0948	24283	1/14/2021	07:37	1/14/2021	15:38	-26	-5.5			X			
	IAQ_TP3_011421	6L2499	23218	1/14/2021	09:15	1/14/2021	17:15	-27	-5			X			
	IAQ_TP1_011421	6L2405	23503	1/14/2021	09:13	1/14/2021	17:10	-29	-6			X			
	IAQ_AA1_011421	6L2331	23652	1/14/2021	09:16	1/14/2021	17:16	-30	-6			X			
	IAQ_SC2_011421	6L2269	23205	1/14/2021	08:22	1/14/2021	16:22	-29	-4.5			X			
	IAQ_SC2_011421K	6L2105	25202	1/14/2021	08:22	1/14/2021	16:22	-27	-5			X			
	IAQ_AA3_011421	6L0456	24534	1/14/2021	08:24	1/14/2021	16:24	-30	-5.5			X			
11A	IAQ_SC1_011421	6L2647	24225	1/14/2021	08:25	1/14/2021	16:25	-29	-3.5			X			
12A	IAQ_SC3_011421	6L1790	23303	1/14/2021	08:26	1/14/2021	16:26	-30	-2			X			
13A	IAQ_SUN1_011521	6L0229	24312	1/15/2021	08:35	1/15/2021	16:35	-29	-5.5			X			
14A	IAQ_SUN2_011521	6L0792	24014	1/15/2021	08:36	1/15/2021	16:36	-30	-6			X			
15A	IAQ_AA95_011521	6L2856	23564	1/15/2021	08:34	1/15/2021	16:34	-30	-7			X			
16A	KA IAQ_MR1_011421	6L2050	23405	1/14/2021	07:21	1/14/2021	15:11	-28	-4.5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	1/15/21	1715			
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Revised COC 1/26/21

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only
PID: _____ Workorder #: 2101453

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: demaximis PID:
Project Name: Omega-OU1 IAQ Jan 2021
Project Manager: Jaime Dinello P.O.# 3139
Sampler: Khalid Azhar
Site Name: Omega Chemical

Special Instructions/Notes:
REPORT IN UG/MG AND PPB. Refer to project specs.

Turnaround Time (Rush surcharges may apply): 10 day

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt	Lab Use Only Final (psig) Gas: N_2 / He	Requested Analyses TO-15 SIM			
01A	IAQ_B3_011421	6L2261	24304	1/14/2021	07:39	1/14/2021	15:39	-29	-6			X			
02A	IAQ_B2_011421	6L0607	25187	1/14/2021	07:36	1/14/2021	15:36	-30	-6			X			
03A	IAQ_B1_011421	6L2089	23777	1/14/2021	7:37	1/14/2021	15:38	-30	-5.5			X			
04A	IAQ_B1_011421K	6L0948	24283	1/14/2021	07:37	1/14/2021	15:38	-26	-5.5			X			
05A	IAQ_TP3_011421	6L2499	23218	1/14/2021	09:15	1/14/2021	17:15	-27	-5			X			
06A	IAQ_TP1_011421	6L2405	23503	1/14/2021	09:13	1/14/2021	17:10	-29	-6			X			
07A	IAQ_AA1_011421	6L2331	23652	1/14/2021	09:16	1/14/2021	17:16	-30	-6			X			
08A	IAQ_SC2_011421	6L2269	23205	1/14/2021	08:22	1/14/2021	16:22	-29	-4.5			X			
09A	IAQ_SC2_011421K	6L2105	25202	1/14/2021	08:22	1/14/2021	16:22	-27	-5			X			
10A	IAQ_AA3_011421	6L0456	24534	1/14/2021	08:24	1/14/2021	16:24	-30	-5.5			X			
11A	IAQ_SC1_011421	6L2647	24225	1/14/2021	08:25	1/14/2021	16:25	-29	-3.5			X			
12A	IAQ_SC3_011421	6L1790	23303	1/14/2021	08:26	1/14/2021	16:26	-30	-2			X			
13A	IAQ_SUN1_011521	6L0229	24312	1/15/2021	08:35	1/15/2021	16:35	-29	-5.5			X			
14A	IAQ_SUN2_011521	6L0792	24014	1/15/2021	08:36	1/15/2021	16:36	-30	-6			X			
15A	IAQ_AA95_011521	6L2856	23564	1/15/2021	08:34	1/15/2021	16:34	-30	-7			X			

HW 2/02/21

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	1/15/21	1715	[signature]	1/18/21	0921
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FedEx Custody Seals intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

AirTECHNOLOGY
Laboratories, Inc.

January 29, 2021

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

de maximis, inc.
ATTN: Jaime Dinello
1340 Reynolds Ave., Suite 105
Irvine, CA 92614

LABORATORY TEST RESULTS

Project Reference: Omega - OU1 IAQ Jan 2021 Annual
Project Number: 3139G
Lab Number: M011501-01

Enclosed are results for sample(s) received 1/15/21 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Jaime Dinello on 1/25/21 and Kyle King, Laura Millan, Jeri Rossi, Katie McGill and Cindi Lucas-Youmans on 1/28/21.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 1
Standard ■	48 hours ☐	EDD ■	Condition upon receipt:
Same Day ☐	72 hours ☐	EDF ☐	Sealed Yes ☐ No ☐
24 hours ☐	96 hours ☐	Level 3 ☐	Intact Yes ☐ No ☐
Other:		Level 4 ☐	Chilled _____ deg C

Project No.:	3139G
Project Name:	Omega - OU1 IAQ Jan 2021 Annual
Report To:	Jaime Dinello
Company:	demaximis
Street:	1340 Reynolds Ave.
City/State/Zip:	Irvine, Ca 92614
Phone& Fax:	(562)756-8149
e-mail:	jdinello@demaximis.com

BILLING

P.O. No.:

Bill to:

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	TO-15 SIM					
M011501-01	IAQ_TP1_011421K2	1/14/2021	9:13	6 L	Air		X					

Form-24 Rev. 1 QA Manager 2/22/10

AUTHORIZATION TO PERFORM WORK	COMPANY JHA		DATE/TIME 1/14/21
SAMPLED BY	COMPANY JHA		DATE/TIME 1/14/21 0900
RELINQUISHED BY	DATE/TIME 1/14/21 1030	RECEIVED BY	DATE/TIME 1/15/21 1030
RELINQUISHED BY	DATE/TIME 1/15/21 1102	RECEIVED BY	DATE/TIME 1/15/21 1102
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS
REPORT IN UG/MG AND PPB.
Refer to project specs.

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: de maximis, Inc.
Attn: Jaime Dinello
Project Name: Omega - OU1 IAQ Jan 2021 Annual
Project No.: 3139G
Date Received: 01/15/21
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15 SIM

Lab No.:	M011501-01							
Client Sample I.D.:	IAQ_TP1_011421 K2							
Date/Time Sampled:	1/14/21 9:13							
Date/Time Analyzed:	1/24/21 16:46							
QC Batch No.:	210124MS2A1							
Analyst Initials:	MJ							
Dilution Factor:	1.0							
ANALYTE	**Result ug/m3**	**RL ug/m3**						
Dichlorodifluoromethane (12)	ND	0.049						
Vinyl Chloride	ND	0.013						
Trichlorofluoromethane (11)	1.0	0.056						
1,1,2-Cl 1,2,2-F ethane (113)	0.44	0.077						
Acetone	16 E	0.48						
1,1-Dichloroethene	ND	0.020						
Methylene Chloride	1.6	0.17						
t-Butyl Methyl Ether	ND	0.036						
t-1,2-Dichloroethene	ND	0.040						
1,1-Dichloroethane	ND	0.040						
c-1,2-Dichloroethene	ND	0.040						
Chloroform	0.26	0.049						
1,1,1-Trichloroethane	ND	0.055						
Carbon Tetrachloride	0.40	0.13						
Benzene	4.6	0.16						
1,2-Dichloroethane	ND	0.040						
Trichloroethene	ND	0.054						
Toluene	32	0.075						
t-1,3-Dichloropropene	ND	0.091						
1,1,2-Trichloroethane	ND	0.055						
Tetrachloroethene	0.67	0.068						
Chlorobenzene	ND	0.046						
Ethylbenzene	10	0.043						
p,&m-Xylene	46	0.043						
o-Xylene	18	0.043						
1,1,2,2-Tetrachloroethane	0.069	0.069						
1,4-Dichlorobenzene	0.28	0.060						
1,2-Dichlorobenzene	ND	0.060						

ND = Not Detected (below RL)
RL = Reporting Limit
E = Estimated. Analyte outside QC criteria.

Reviewed/Approved By: _____ Date 1-25-21
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, Inc.
Attn: Jaime Dinello
Project Name: Omega - OU1 IAQ Jan 2021 Annual
Project No.: 3139G
Date Received: 01/15/21
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15 SIM

Lab No.:	SIM BLANK
Client Sample I.D.:	--
Date/Time Analyzed:	1/24/21 16:07
QC Batch No.:	210124MS2A1
Analyst Initials:	MJ
Dilution Factor:	1.0

ANALYTE	Result ug/m3	RL ug/m3
Dichlorodifluoromethane (12)	ND	0.049
Vinyl Chloride	ND	0.013
Trichlorofluoromethane (11)	ND	0.056
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.077
Acetone	ND	0.48
1,1-Dichloroethene	ND	0.020
Methylene Chloride	ND	0.17
t-Butyl Methyl Ether	ND	0.036
t-1,2-Dichloroethene	ND	0.040
1,1-Dichloroethane	ND	0.040
c-1,2-Dichloroethene	ND	0.040
Chloroform	ND	0.049
1,1,1-Trichloroethane	ND	0.055
Carbon Tetrachloride	ND	0.13
Benzene	ND	0.16
1,2-Dichloroethane	ND	0.040
Trichloroethene	ND	0.054
Toluene	ND	0.075
t-1,3-Dichloropropene	ND	0.091
1,1,2-Trichloroethane	ND	0.055
Tetrachloroethene	ND	0.068
Chlorobenzene	ND	0.046
Ethylbenzene	ND	0.043
p,&m-Xylene	ND	0.043
o-Xylene	ND	0.043
1,1,2,2-Tetrachloroethane	ND	0.069
1,4-Dichlorobenzene	ND	0.060
1,2-Dichlorobenzene	ND	0.060

ND = Not Detected (below RL)
RL = Reporting Limit
E = Estimated. Analyte outside QC criteria.

Reviewed/Approved By: _____ Date 1-25-21
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No: 210124MS2A1
Matrix: Air
Reporting Units: ug/m3

EPA Method TO15 SIM
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	Method Blank		LCS		LCSD					
Date/Time Analyzed:	1/24/21 16:07		1/24/21 14:51		1/24/21 15:28					
Analyst Initials:	MJ		MJ		MJ					
Dilution Factor:	1.0		1.0		1.0					
ANALYTE	Result ug/m3	RL ug/m3	Result ug/m3	% Rec.	Result ug/m3	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Vinyl Chloride	ND	0.013	1.43	112	1.27	99	11.8	70	130	30
1,1-Dichloroethene	ND	0.020	1.69	85	1.63	82	4.0	70	130	30
1,1,1-Trichloroethane	ND	0.055	2.44	89	2.34	86	4.2	70	130	30
Benzene	ND	0.16	1.29	81	1.24	78	4.3	70	130	30
Trichloroethene	ND	0.054	2.37	88	2.26	84	4.6	70	130	30
Tetrachloroethene	ND	0.068	3.12	92	3.04	90	2.6	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: [signature] Date: 1-25-21

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: de maximis, Inc.
Attn: Jaime Dinello
Project Name: Omega - OU1 IAQ Jan 2021 Annual
Project No.: 3139G
Date Received: 01/15/21
Matrix: Air
Reporting Units: ppbv

EPA Method TO15 SIM

Lab No.:	M011501-01							
Client Sample I.D.:	IAQ_TP1_011421 K2							
Date/Time Sampled:	1/14/21 9:13							
Date/Time Analyzed:	1/24/21 16:46							
QC Batch No.:	210124MS2A1							
Analyst Initials:	MJ							
Dilution Factor:	1.0							
ANALYTE	**Result ppbv**	**RL ppbv**						
Dichlorodifluoromethane (12)	ND	0.010						
Vinyl Chloride	ND	0.0050						
Trichlorofluoromethane (11)	0.18	0.010						
1,1,2-Cl 1,2,2-F ethane (113)	0.058	0.010						
Acetone	6.9 E	0.20						
1,1-Dichloroethene	ND	0.0050						
Methylene Chloride	0.47	0.050						
t-Butyl Methyl Ether	ND	0.010						
t-1,2-Dichloroethene	ND	0.010						
1,1-Dichloroethane	ND	0.010						
c-1,2-Dichloroethene	ND	0.010						
Chloroform	0.053	0.010						
1,1,1-Trichloroethane	ND	0.010						
Carbon Tetrachloride	0.064	0.020						
Benzene	1.4	0.050						
1,2-Dichloroethane	ND	0.010						
Trichloroethene	ND	0.010						
Toluene	8.4	0.020						
t-1,3-Dichloropropene	ND	0.020						
1,1,2-Trichloroethane	ND	0.010						
Tetrachloroethene	0.099	0.010						
Chlorobenzene	ND	0.010						
Ethylbenzene	2.4	0.010						
p,&m-Xylene	11	0.010						
o-Xylene	4.2	0.010						
1,1,2,2-Tetrachloroethane	0.010	0.010						
1,4-Dichlorobenzene	0.047	0.010						
1,2-Dichlorobenzene	ND	0.010						

ND = Not Detected (below RL)
RL = Reporting Limit
E = Estimated. Analyte outside QC criteria.

Reviewed/Approved By: _____ Date 1-25-21
Operations Manager

The cover letter is an integral part of this analytical report

Client: de maximis, Inc.
Attn: Jaime Dinello
Project Name: Omega - OU1 IAQ Jan 2021 Annual
Project No.: 3139G
Date Received: 01/15/21
Matrix: Air
Reporting Units: ppbv

EPA Method TO15 SIM

Lab No.:	SIM BLANK							
Client Sample I.D.:	--							
Date/Time Analyzed:	1/24/21 16:07							
QC Batch No.:	210124MS2A1							
Analyst Initials:	MJ							
Dilution Factor:	1.0							
ANALYTE	**Result ppbv**	**RL ppbv**						
Dichlorodifluoromethane (12)	ND	0.010						
Vinyl Chloride	ND	0.0050						
Trichlorofluoromethane (11)	ND	0.010						
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.010						
Acetone	ND	0.20						
1,1-Dichloroethene	ND	0.0050						
Methylene Chloride	ND	0.050						
t-Butyl Methyl Ether	ND	0.010						
t-1,2-Dichloroethene	ND	0.010						
1,1-Dichloroethane	ND	0.010						
c-1,2-Dichloroethene	ND	0.010						
Chloroform	ND	0.010						
1,1,1-Trichloroethane	ND	0.010						
Carbon Tetrachloride	ND	0.020						
Benzene	ND	0.050						
1,2-Dichloroethane	ND	0.010						
Trichloroethene	ND	0.010						
Toluene	ND	0.020						
t-1,3-Dichloropropene	ND	0.020						
1,1,2-Trichloroethane	ND	0.010						
Tetrachloroethene	ND	0.010						
Chlorobenzene	ND	0.010						
Ethylbenzene	ND	0.010						
p,&m-Xylene	ND	0.010						
o-Xylene	ND	0.010						
1,1,2,2-Tetrachloroethane	ND	0.010						
1,4-Dichlorobenzene	ND	0.010						
1,2-Dichlorobenzene	ND	0.010						

ND = Not Detected (below RL)
RL = Reporting Limit
E = Estimated. Analyte outside QC criteria.

Reviewed/Approved By: _____ Date 1-25-21
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No: 210124MS2A1
Matrix: Air
Reporting Units: ppbv

EPA Method TO15 SIM
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	Method Blank		LCS		LCSD					
Date/Time Analyzed:	1/24/21 16:07		1/24/21 14:51		1/24/21 15:28					
Analyst Initials:	MJ		MJ		MJ					
Dilution Factor:	1.0		1.0		1.0					
ANALYTE	Result ppbv	RL ppbv	Result ppbv	% Rec.	Result ppbv	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Vinyl Chloride	ND	0.0050	0.558	112	0.496	99	11.8	70	130	30
1,1-Dichloroethene	ND	0.0050	0.427	85	0.410	82	4.0	70	130	30
1,1,1-Trichloroethane	ND	0.010	0.447	89	0.429	86	4.2	70	130	30
Benzene	ND	0.050	0.405	81	0.388	78	4.3	70	130	30
Trichloroethene	ND	0.010	0.440	88	0.421	84	4.6	70	130	30
Tetrachloroethene	ND	0.010	0.460	92	0.448	90	2.6	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: Date: 1-25-21

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

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1/20/2021
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling
Project #:
Workorder #: 2101209

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/13/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2101209

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 SVE Monthly GAC Sampling
DATE RECEIVED:	01/13/2021	**CONTACT:**	Jade White
DATE COMPLETED:	01/20/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_EFF_GAC_010821	TO-15	5.9 "Hg	14.9 psi
02A	OC_SVE_MID_GAC_010821	TO-15	5.7 "Hg	14.9 psi
03A	OC_SVE_INF_GAC_010821	TO-15	6.5 "Hg	14.9 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 01/20/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2101209

Three 1 Liter Summa Canister samples were received on January 13, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TNMOC referenced to Heptane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of Heptane.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_EFF_GAC_010821

Lab ID#: 2101209-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	1.2	10	9.6	81
1,1-Dichloroethene	1.2	1.5	5.0	5.9
2-Butanone (Methyl Ethyl Ketone)	5.0	17	15	49
1,1,1-Trichloroethane	1.2	5.2	6.8	28
Trichloroethene	1.2	1.4	6.7	7.4
Tetrachloroethene	1.2	9.1	8.5	62
TNMOC ref. to Heptane (MW=100)	25	120	100	490

Client Sample ID: OC_SVE_MID_GAC_010821

Lab ID#: 2101209-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	5.0	6.8	12	17
Carbon Disulfide	5.0	32	15	100
2-Butanone (Methyl Ethyl Ketone)	5.0	13	15	38
Benzene	1.2	2.3	4.0	7.2
Trichloroethene	1.2	3.1	6.7	17
Tetrachloroethene	1.2	65	8.4	440
TNMOC ref. to Heptane (MW=100)	25	1200	100	4900

Client Sample ID: OC_SVE_INF_GAC_010821

Lab ID#: 2101209-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	1.3	4.3	9.8	33
1,1-Dichloroethene	1.3	1.5	5.1	6.0
2-Butanone (Methyl Ethyl Ketone)	5.1	10	15	30
1,1,1-Trichloroethane	1.3	4.0	7.0	22
Trichloroethene	1.3	3.3	6.9	18
Tetrachloroethene	1.3	72	8.7	490
TNMOC ref. to Heptane (MW=100)	26	340	100	1400

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Client Sample ID: OC_SVE_EFF_GAC_010821

Lab ID#: 2101209-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011517**	**Date of Collection:**	**1/8/21 10:29:00 AM**
Dil. Factor:	**2.51**	**Date of Analysis:**	**1/15/21 06:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.2	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Freon 113	1.2	10	9.6	81
1,1-Dichloroethene	1.2	1.5	5.0	5.9
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
Methylene Chloride	12	Not Detected	44	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	17	15	49
Chloroform	1.2	Not Detected	6.1	Not Detected
1,1,1-Trichloroethane	1.2	5.2	6.8	28
Carbon Tetrachloride	1.2	Not Detected	7.9	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	1.4	6.7	7.4
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Toluene	1.2	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	9.1	8.5	62
o-Xylene	1.2	Not Detected	5.4	Not Detected
TNMOC ref. to Heptane (MW=100)	25	120	100	490

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: OC_SVE_MID_GAC_010821

Lab ID#: 2101209-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011525**	**Date of Collection:**	**1/8/21 10:32:00 AM**
Dil. Factor:	**2.48**	**Date of Analysis:**	**1/16/21 12:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
2-Propanol	5.0	6.8	12	17
Carbon Disulfide	5.0	32	15	100
Methylene Chloride	12	Not Detected	43	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	13	15	38
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
Benzene	1.2	2.3	4.0	7.2
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	3.1	6.7	17
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Toluene	1.2	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	65	8.4	440
o-Xylene	1.2	Not Detected	5.4	Not Detected
TNMOC ref. to Heptane (MW=100)	25	1200	100	4900

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: OC_SVE_INF_GAC_010821

Lab ID#: 2101209-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011526**	**Date of Collection:**	**1/8/21 10:37:00 AM**
Dil. Factor:	**2.57**	**Date of Analysis:**	**1/16/21 12:43 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.4	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	Not Detected	7.2	Not Detected
Freon 113	1.3	4.3	9.8	33
1,1-Dichloroethene	1.3	1.5	5.1	6.0
2-Propanol	5.1	Not Detected	13	Not Detected
Carbon Disulfide	5.1	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	10	15	30
Chloroform	1.3	Not Detected	6.3	Not Detected
1,1,1-Trichloroethane	1.3	4.0	7.0	22
Carbon Tetrachloride	1.3	Not Detected	8.1	Not Detected
Benzene	1.3	Not Detected	4.1	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	3.3	6.9	18
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	72	8.7	490
o-Xylene	1.3	Not Detected	5.6	Not Detected
TNMOC ref. to Heptane (MW=100)	26	340	100	1400

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101209-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011505f**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/21 12:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 2101209-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/21 10:30 AM**

Compound	%Recovery
Freon 12	92
Vinyl Chloride	94
Freon 11	94
Freon 113	92
1,1-Dichloroethene	90
2-Propanol	92
Carbon Disulfide	89
Methylene Chloride	93
Hexane	82
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	81
Chloroform	87
1,1,1-Trichloroethane	88
Carbon Tetrachloride	90
Benzene	89
1,2-Dichloroethane	94
Trichloroethene	93
1,4-Dioxane	82
Toluene	89
1,1,2-Trichloroethane	93
Tetrachloroethene	100
o-Xylene	97
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2101209-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/21 10:55 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	91	70-130
Vinyl Chloride	94	70-130
Freon 11	92	70-130
Freon 113	91	70-130
1,1-Dichloroethene	92	70-130
2-Propanol	92	70-130
Carbon Disulfide	89	70-130
Methylene Chloride	93	70-130
Hexane	83	70-130
1,1-Dichloroethane	88	70-130
2-Butanone (Methyl Ethyl Ketone)	79	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	87	70-130
Carbon Tetrachloride	91	70-130
Benzene	88	70-130
1,2-Dichloroethane	94	70-130
Trichloroethene	94	70-130
1,4-Dioxane	82	70-130
Toluene	87	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	100	70-130
o-Xylene	97	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 2101209-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a011504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/21 11:20 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	91	70-130
Vinyl Chloride	94	70-130
Freon 11	92	70-130
Freon 113	92	70-130
1,1-Dichloroethene	91	70-130
2-Propanol	93	70-130
Carbon Disulfide	90	70-130
Methylene Chloride	92	70-130
Hexane	84	70-130
1,1-Dichloroethane	88	70-130
2-Butanone (Methyl Ethyl Ketone)	81	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	88	70-130
Carbon Tetrachloride	92	70-130
Benzene	90	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	94	70-130
1,4-Dioxane	81	70-130
Toluene	88	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	102	70-130
o-Xylene	83	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	87	70-130

2101209

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

AIR CHAIN OF CUSTODY RECORD

DATE: 01/08/21
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis	CLIENT PROJECT NAME / NUMBER: Omega - OU1 SVE Monthly GAC Sampling
ADDRESS: 1322 Scott St., Suite 104	PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: San Diego STATE: CA ZIP: 92106	CITY: Whittier STATE: CA ZIP: 90602
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com	PROJECT CONTACT: Trent henderson thenderson@jacobandhefner.com
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS	SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar [signature]
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) ☒ EDD	
SPECIAL INSTRUCTIONS:	

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY ☐☐-☐☐☐☐

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.3)
01A	1	OC_SVE_EFF_GAC_010821	SP-EFF-GAC	SV	1L2876	1 L	24598	1/8/2021	1024	-27	1/8/2021	1029	-5	X
02A	2	OC_SVE_MID_GAC_010821	SP-MID-GAC	SV	1L2926	1 L	24588	1/8/2021	1027	-27	1/8/2021	1032	-4.5	X
03A	3	OC_SVE_INF_GAC_010821	SP-INF-GAC	SV	LC1011	1 L	25358	1/8/2021	1033	-26	1/8/2021	1037	-5	X
	4													
	5													
	6													
	7													
	8													
	9													
	10													
	11													
	12													
	13													
	14													
	15													

Custody Seal Intact?
Y N None Temp NA
FEDEX

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	1/13/21	1049
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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2/22/2021
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling
Project #:
Workorder #: 2102371

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 2/15/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102371

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 SVE Monthly GAC Sampling
DATE RECEIVED:	02/15/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/22/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_EFF_GAC_021221	TO-15	5.9 "Hg	14.8 psi
02A	OC_SVE_MID_GAC_021221	TO-15	6.9 "Hg	14.8 psi
03A	OC_SVE_INF_GAC_021221	TO-15	5.3 "Hg	14.9 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/22/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2102371

Three 1 Liter Summa Canister samples were received on February 15, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TNMOC referenced to Heptane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of Heptane.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_EFF_GAC_021221

Lab ID#: 2102371-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	5.0	4.9 J	12	12 J
2-Butanone (Methyl Ethyl Ketone)	5.0	17	15	50
Benzene	1.2	2.1	4.0	6.7
Trichloroethene	1.2	3.0	6.7	16
Toluene	1.2	1.5	4.7	5.8
Tetrachloroethene	1.2	73	8.5	500
TNMOC ref. to Heptane (MW=100)	25	2000	100	8200

Client Sample ID: OC_SVE_MID_GAC_021221

Lab ID#: 2102371-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	1.3	5.4	10	42
1,1-Dichloroethene	1.3	1.7	5.2	6.8
1,1,1-Trichloroethane	1.3	3.0	7.1	17
Tetrachloroethene	1.3	3.1	8.8	21
TNMOC ref. to Heptane (MW=100)	26	27	110	110

Client Sample ID: OC_SVE_INF_GAC_021221

Lab ID#: 2102371-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	1.3	6.8	7.1
Freon 113	1.2	3.8	9.4	29
1,1-Dichloroethene	1.2	1.6	4.8	6.4
1,1,1-Trichloroethane	1.2	2.2	6.6	12
Trichloroethene	1.2	3.5	6.6	19
Tetrachloroethene	1.2	56	8.3	380
TNMOC ref. to Heptane (MW=100)	24	240	100	980

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Client Sample ID: OC_SVE_EFF_GAC_021221

Lab ID#: 2102371-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j021811**	**Date of Collection:**	**2/12/21 11:19:00 AM**
Dil. Factor:	**2.50**	**Date of Analysis:**	**2/18/21 06:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.2	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Freon 113	1.2	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.2	Not Detected	5.0	Not Detected
2-Propanol	5.0	4.9 J	12	12 J
Carbon Disulfide	5.0	Not Detected	16	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	17	15	50
Chloroform	1.2	Not Detected	6.1	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.9	Not Detected
Benzene	1.2	2.1	4.0	6.7
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	3.0	6.7	16
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Toluene	1.2	1.5	4.7	5.8
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	73	8.5	500
o-Xylene	1.2	Not Detected	5.4	Not Detected
TNMOC ref. to Heptane (MW=100)	25	2000	100	8200

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: OC_SVE_MID_GAC_021221

Lab ID#: 2102371-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j021812**	**Date of Collection:**	**2/12/21 11:21:00 AM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**2/18/21 06:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.4	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	Not Detected	7.3	Not Detected
Freon 113	1.3	5.4	10	42
1,1-Dichloroethene	1.3	1.7	5.2	6.8
2-Propanol	5.2	Not Detected	13	Not Detected
Carbon Disulfide	5.2	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Hexane	1.3	Not Detected	4.6	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	Not Detected	15	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	3.0	7.1	17
Carbon Tetrachloride	1.3	Not Detected	8.2	Not Detected
Benzene	1.3	Not Detected	4.2	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Trichloroethene	1.3	Not Detected	7.0	Not Detected
1,4-Dioxane	5.2	Not Detected	19	Not Detected
Toluene	1.3	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.1	Not Detected
Tetrachloroethene	1.3	3.1	8.8	21
o-Xylene	1.3	Not Detected	5.7	Not Detected
TNMOC ref. to Heptane (MW=100)	26	27	110	110

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	84	70-130

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Client Sample ID: OC_SVE_INF_GAC_021221

Lab ID#: 2102371-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j021813**	**Date of Collection:**	**2/12/21 11:23:00 AM**
Dil. Factor:	**2.44**	**Date of Analysis:**	**2/18/21 07:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	1.3	6.8	7.1
Freon 113	1.2	3.8	9.4	29
1,1-Dichloroethene	1.2	1.6	4.8	6.4
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	2.2	6.6	12
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	3.5	6.6	19
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	56	8.3	380
o-Xylene	1.2	Not Detected	5.3	Not Detected
TNMOC ref. to Heptane (MW=100)	24	240	100	980

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2102371-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j021810a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/18/21 05:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: CCV

Lab ID#: 2102371-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j021806**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/18/21 03:30 PM**

Compound	%Recovery
Freon 12	87
Vinyl Chloride	86
Freon 11	82
Freon 113	82
1,1-Dichloroethene	80
2-Propanol	82
Carbon Disulfide	86
Methylene Chloride	89
Hexane	87
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	89
Chloroform	88
1,1,1-Trichloroethane	87
Carbon Tetrachloride	88
Benzene	86
1,2-Dichloroethane	89
Trichloroethene	90
1,4-Dioxane	94
Toluene	89
1,1,2-Trichloroethane	93
Tetrachloroethene	93
o-Xylene	106
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS

Lab ID#: 2102371-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j021807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/18/21 03:56 PM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	90	70-130
Vinyl Chloride	86	70-130
Freon 11	83	70-130
Freon 113	81	70-130
1,1-Dichloroethene	81	70-130
2-Propanol	86	70-130
Carbon Disulfide	85	70-130
Methylene Chloride	88	70-130
Hexane	89	70-130
1,1-Dichloroethane	85	70-130
2-Butanone (Methyl Ethyl Ketone)	88	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	86	70-130
Carbon Tetrachloride	86	70-130
Benzene	85	70-130
1,2-Dichloroethane	87	70-130
Trichloroethene	88	70-130
1,4-Dioxane	94	70-130
Toluene	87	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	92	70-130
o-Xylene	105	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 2102371-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j021808**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/18/21 04:23 PM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	92	70-130
Vinyl Chloride	88	70-130
Freon 11	85	70-130
Freon 113	84	70-130
1,1-Dichloroethene	84	70-130
2-Propanol	90	70-130
Carbon Disulfide	88	70-130
Methylene Chloride	90	70-130
Hexane	92	70-130
1,1-Dichloroethane	87	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
Chloroform	89	70-130
1,1,1-Trichloroethane	88	70-130
Carbon Tetrachloride	89	70-130
Benzene	88	70-130
1,2-Dichloroethane	88	70-130
Trichloroethene	91	70-130
1,4-Dioxane	96	70-130
Toluene	89	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	93	70-130
o-Xylene	108	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	104	70-130

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

2102371

AIR CHAIN OF CUSTODY RECORD

DATE: 02/12/21
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - OU1 SVE Monthly GAC Sampling
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☑ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.3)
01A 1	OC_SVE_EFF_GAC_021221	SP-EFF-GAC	SV	1L3251	1 L	25103	2/12/2021	1113	-28	2/12/2021	1119	-5	X
02A 2	OC_SVE_MID_GAC_021221	SP-MID-GAC	SV	1L2436	1 L	22535	2/12/2021	1116	-27	2/12/2021	1121	-5	X
03A 3	OC_SVE_INF_GAC_021221	SP-INF-GAC	SV	1L2349	1 L	25287	2/12/2021	1117	-28	2/12/2021	1123	-5	X
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

FedEx
Custody Seal Intact? Y N None Temp NA

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	SATL	2/15/21	0933
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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3/23/2021
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - OU1 SVE Monthly GAC Sampling
Project #:
Workorder #: 2103477

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 3/16/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2103477

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - OU1 SVE Monthly GAC Sampling
DATE RECEIVED:	03/16/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/23/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_EFF_GAC_031221	TO-15	5.7 "Hg	9.9 psi
02A	OC_SVE_MID_GAC_031221	TO-15	4.7 "Hg	9.9 psi
03A	OC_SVE_INF_GAC_031221	TO-15	4.7 "Hg	10 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/23/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2103477

Three 1 Liter Summa Canister samples were received on March 16, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The TNMOC concentration was calculated by taking the total area counts in the sample and quantitating the area based on the response factor of TNMOC ref. to Heptane (MW=100).

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_EFF_GAC_031221

Lab ID#: 2103477-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.0	1.2	5.8	6.8
Freon 113	1.0	2.0	7.9	16
Tetrachloroethene	1.0	16	7.0	110
TNMOC ref. to Heptane (MW=100)	21	230	85	940

Client Sample ID: OC_SVE_MID_GAC_031221

Lab ID#: 2103477-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.99	1.1	5.6	6.0
Freon 113	0.99	6.1	7.6	46
1,1-Dichloroethene	0.99	1.5	3.9	5.8
2-Propanol	4.0	4.8	9.7	12
2-Butanone (Methyl Ethyl Ketone)	4.0	29	12	85
1,1,1-Trichloroethane	0.99	3.5	5.4	19
Tetrachloroethene	0.99	3.8	6.7	26
TNMOC ref. to Heptane (MW=100)	20	75	81	310

Client Sample ID: OC_SVE_INF_GAC_031221

Lab ID#: 2103477-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	1.0	3.8	7.6	29
1,1-Dichloroethene	1.0	1.4	3.9	5.5
2-Propanol	4.0	5.0	9.8	12
1,1,1-Trichloroethane	1.0	1.5	5.4	8.3
Trichloroethene	1.0	3.2	5.3	17
Tetrachloroethene	1.0	49	6.7	330
TNMOC ref. to Heptane (MW=100)	20	140	81	570

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Client Sample ID: OC_SVE_EFF_GAC_031221

Lab ID#: 2103477-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a032215**	**Date of Collection:**	**3/12/21 10:18:00 AM**
Dil. Factor:	**2.07**	**Date of Analysis:**	**3/22/21 05:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.1	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Freon 11	1.0	1.2	5.8	6.8
Freon 113	1.0	2.0	7.9	16
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	16	7.0	110
o-Xylene	1.0	Not Detected	4.5	Not Detected
TNMOC ref. to Heptane (MW=100)	21	230	85	940

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_MID_GAC_031221

Lab ID#: 2103477-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a032216**	**Date of Collection:**	**3/12/21 10:22:00 AM**
Dil. Factor:	**1.98**	**Date of Analysis:**	**3/22/21 06:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.99	Not Detected	4.9	Not Detected
Vinyl Chloride	0.99	Not Detected	2.5	Not Detected
Freon 11	0.99	1.1	5.6	6.0
Freon 113	0.99	6.1	7.6	46
1,1-Dichloroethene	0.99	1.5	3.9	5.8
2-Propanol	4.0	4.8	9.7	12
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Methylene Chloride	9.9	Not Detected	34	Not Detected
Hexane	0.99	Not Detected	3.5	Not Detected
1,1-Dichloroethane	0.99	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	29	12	85
Chloroform	0.99	Not Detected	4.8	Not Detected
1,1,1-Trichloroethane	0.99	3.5	5.4	19
Carbon Tetrachloride	0.99	Not Detected	6.2	Not Detected
Benzene	0.99	Not Detected	3.2	Not Detected
1,2-Dichloroethane	0.99	Not Detected	4.0	Not Detected
Trichloroethene	0.99	Not Detected	5.3	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
Toluene	0.99	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.99	Not Detected	5.4	Not Detected
Tetrachloroethene	0.99	3.8	6.7	26
o-Xylene	0.99	Not Detected	4.3	Not Detected
TNMOC ref. to Heptane (MW=100)	20	75	81	310

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: OC_SVE_INF_GAC_031221

Lab ID#: 2103477-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a032217**	**Date of Collection:**	**3/12/21 10:24:00 AM**
Dil. Factor:	**1.99**	**Date of Analysis:**	**3/22/21 06:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	4.9	Not Detected
Vinyl Chloride	1.0	Not Detected	2.5	Not Detected
Freon 11	1.0	Not Detected	5.6	Not Detected
Freon 113	1.0	3.8	7.6	29
1,1-Dichloroethene	1.0	1.4	3.9	5.5
2-Propanol	4.0	5.0	9.8	12
Carbon Disulfide	4.0	Not Detected	12	Not Detected
Methylene Chloride	10	Not Detected	34	Not Detected
Hexane	1.0	Not Detected	3.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
Chloroform	1.0	Not Detected	4.8	Not Detected
1,1,1-Trichloroethane	1.0	1.5	5.4	8.3
Carbon Tetrachloride	1.0	Not Detected	6.3	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.0	Not Detected
Trichloroethene	1.0	3.2	5.3	17
1,4-Dioxane	4.0	Not Detected	14	Not Detected
Toluene	1.0	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.4	Not Detected
Tetrachloroethene	1.0	49	6.7	330
o-Xylene	1.0	Not Detected	4.3	Not Detected
TNMOC ref. to Heptane (MW=100)	20	140	81	570

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2103477-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a032206d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/22/21 11:39 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 2103477-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a032202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/22/21 09:35 AM**	

Compound	**%Recovery**
Freon 12	79
Vinyl Chloride	92
Freon 11	78
Freon 113	79
1,1-Dichloroethene	85
2-Propanol	103
Carbon Disulfide	89
Methylene Chloride	98
Hexane	104
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	88
Chloroform	88
1,1,1-Trichloroethane	87
Carbon Tetrachloride	89
Benzene	92
1,2-Dichloroethane	89
Trichloroethene	90
1,4-Dioxane	96
Toluene	93
1,1,2-Trichloroethane	94
Tetrachloroethene	87
o-Xylene	104
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 2103477-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a032203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/22/21 09:59 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	89	70-130
Vinyl Chloride	102	70-130
Freon 11	86	70-130
Freon 113	87	70-130
1,1-Dichloroethene	96	70-130
2-Propanol	118	70-130
Carbon Disulfide	98	70-130
Methylene Chloride	107	70-130
Hexane	114	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	97	70-130
Benzene	102	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	99	70-130
1,4-Dioxane	103	70-130
Toluene	100	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	94	70-130
o-Xylene	109	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2103477-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a032204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/22/21 10:24 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	88	70-130
Vinyl Chloride	101	70-130
Freon 11	85	70-130
Freon 113	87	70-130
1,1-Dichloroethene	96	70-130
2-Propanol	117	70-130
Carbon Disulfide	99	70-130
Methylene Chloride	106	70-130
Hexane	113	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	96	70-130
Carbon Tetrachloride	96	70-130
Benzene	102	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	100	70-130
1,4-Dioxane	104	70-130
Toluene	100	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	94	70-130
o-Xylene	110	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	102	70-130

2103477

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

AIR CHAIN OF CUSTODY RECORD

DATE: 03/12/21
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - OU1 SVE Monthly GAC Sampling
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☒ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.3)
01A	1	OC_SVE_EFF_GAC_031221	SP-EFF-GAC	SV	1L2530	1 L	25286	3/12/2021	1013	-26	3/12/2021	1018	-5	X
02A	2	OC_SVE_MID_GAC_031221	SP-MID-GAC	SV	1L1530	1 L	20911	3/12/2021	1015	-28	3/12/2021	1022	-5	X
03A	3	OC_SVE_INF_GAC_031221	SP-INF-GAC	SV	34001797	1 L	21409	3/12/2021	1017	-27	3/12/2021	1024	-5	X
	4													
	5													
	6													
	7													
	8													
	9													
	10													
	11													
	12													
	13													
	14													
	15													

Custody Seal Intact?
Y N None Temp NA
FEDEX

Relinquished by: (Signature) [signature]
Received by: (Signature) JW TAIL Date: 3/16/21 Time: 1212.
Relinquished by: (Signature)
Received by: (Signature) Date: Time:
Relinquished by: (Signature)
Received by: (Signature) Date: Time:

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2/3/2021
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega-Annual VMP January 2021
Project #:
Workorder #: 2101535

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 1/25/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

eurofins | Air Toxics

WORK ORDER #: 2101535

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega-Annual VMP January 2021
DATE RECEIVED:	01/25/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/01/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_VMP-24_011821	TO-15	5.9 "Hg	14.9 psi
02A	OC_SVE_VMP-94-24_011821	TO-15	6.5 "Hg	15 psi
03A	OC_SVE_VMP-94-60_011821	TO-15	4.7 "Hg	15 psi
04A	OC_SVE_VMP-43-24_011821	TO-15	6.1 "Hg	15.1 psi
05A	OC_SVE_VMP-95-60_011821	TO-15	5.5 "Hg	14.9 psi
06A	OC_SVE_VMP-31-24_011821	TO-15	6.7 "Hg	15.1 psi
07A	OC_SVE_VMP-32-24_011821	TO-15	6.1 "Hg	15 psi
08A	OC_SVE_VMP-32-60_011821	TO-15	3.7 "Hg	14.9 psi
09A	OC_SVE_VMP-12_011921	TO-15	5.5 "Hg	15 psi
10A	OC_SVE_VMP-11_011921	TO-15	5.5 "Hg	14.9 psi
11A	OC_SVE_VMP-92-70_011921	TO-15	5.5 "Hg	14.8 psi
12A(on hold)	OC_SVE_VMP-93-60_011921	TO-15	15.3 "Hg	14.8 psi
13A	OC_SVE_VMP-15_011921	TO-15	4.1 "Hg	14.9 psi
14A	OC_SVE_VMP-15_011921K	TO-15	4.1 "Hg	15 psi
15A	OC_SVE_VMP-17_011921	TO-15	6.5 "Hg	14.8 psi
16A	OC_SVE_VMP-17_011921K	TO-15	4.5 "Hg	15.2 psi
17A	OC_SVE_VMP-16_011921	TO-15	4.5 "Hg	15.5 psi
18A	OC_SVE_VMP-27_011921	TO-15	4.7 "Hg	14.7 psi
19A	OC_SVE_VMP-22_011921	TO-15	5.1 "Hg	15.2 psi
20A	OC_SVE_VMP-5_011921	TO-15	5.1 "Hg	15.4 psi
21A	OC_SVE_VMP-18_012121	TO-15	2.8 "Hg	15.7 psi
22A	OC_SVE_VMP-18_012121K	TO-15	4.5 "Hg	15.3 psi
23A	OC_SVE_VMP-26_012121	TO-15	4.9 "Hg	15.4 psi

Continued on next page

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PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega-Annual VMP January 2021
DATE RECEIVED:	01/25/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/01/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
24A	OC_SVE_VMP-21_012121	TO-15	6.3 "Hg	14.8 psi
25A	OC_SVE_VMP-20_012121	TO-15	4.3 "Hg	15.3 psi
26A(on hold)	OC_SVE_VMP-20_012121N	TO-15	5.8 psi	15.9 psi
27A	Lab Blank	TO-15	NA	NA
27B	Lab Blank	TO-15	NA	NA
28A	CCV	TO-15	NA	NA
28B	CCV	TO-15	NA	NA
29A	LCS	TO-15	NA	NA
29AA	LCSD	TO-15	NA	NA
29B	LCS	TO-15	NA	NA
29BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/03/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2101535

Twenty-six 1 Liter Summa Canister samples were received on January 25, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A date and time were not provided by the field sampler.

Sample OC_SVE_VMP-93-60_011921 was received with significant vacuum remaining in the canister.

Despite the use of flow controllers for sample collection, the final canister vacuum for sample OC_SVE_VMP-20_012121N was measured at ambient pressure at the laboratory.

Samples OC_SVE_VMP-93-60_011921 and OC_SVE_VMP-20_012121N were placed on hold per the client's request.

Analytical Notes

A single point calibration for TNMOC referenced to Heptane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-24_011821

Lab ID#: 2101535-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.2	1.3	6.7	7.0
Tetrachloroethene	1.2	75	8.5	510
1,1-Difluoroethane	5.0	6.3	14	17
TNMOC ref. to Heptane (MW=100)	25	95	100	390

Client Sample ID: OC_SVE_VMP-94-24_011821

Lab ID#: 2101535-02A

No Detections Were Found.

Client Sample ID: OC_SVE_VMP-94-60_011821

Lab ID#: 2101535-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	7.5	8.1	51

Client Sample ID: OC_SVE_VMP-43-24_011821

Lab ID#: 2101535-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.3	1.6	8.6	11

Client Sample ID: OC_SVE_VMP-95-60_011821

Lab ID#: 2101535-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	16	8.3	110

Client Sample ID: OC_SVE_VMP-31-24_011821

Lab ID#: 2101535-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.3	1.3	8.8	8.8

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-32-24_011821

Lab ID#: 2101535-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.3	2.4	8.6	16

Client Sample ID: OC_SVE_VMP-32-60_011821

Lab ID#: 2101535-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	5.6	7.8	38

Client Sample ID: OC_SVE_VMP-12_011921

Lab ID#: 2101535-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Butanone (Methyl Ethyl Ketone)	4.9	5.3	14	16
TNMOC ref. to Heptane (MW=100)	25	75	100	310

Client Sample ID: OC_SVE_VMP-11_011921

Lab ID#: 2101535-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	1.2	5.2	4.9	21
Trichloroethene	1.2	6.4	6.6	34
Tetrachloroethene	1.2	95	8.3	640
TNMOC ref. to Heptane (MW=100)	25	160	100	650

Client Sample ID: OC_SVE_VMP-92-70_011921

Lab ID#: 2101535-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	78	6.9	440
Freon 113	1.2	260	9.4	2000
1,1-Dichloroethene	1.2	140	4.9	580
Chloroform	1.2	3.2	6.0	15

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-92-70_011921

Lab ID#: 2101535-11A

1,1,1-Trichloroethane	1.2	2.3	6.7	12
Trichloroethene	1.2	35	6.6	190
Tetrachloroethene	1.2	490	8.3	3400
TNMOC ref. to Heptane (MW=100)	25	1200	100	4900

Client Sample ID: OC_SVE_VMP-15_011921

Lab ID#: 2101535-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	5.6	7.9	38
TNMOC ref. to Heptane (MW=100)	23	68	95	280

Client Sample ID: OC_SVE_VMP-15_011921K

Lab ID#: 2101535-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	24	28	57
cis-1,2-Dichloroethene	1.2	11	4.6	45
Trichloroethene	1.2	5.0	6.3	27
Tetrachloroethene	1.2	5.7	7.9	39
TNMOC ref. to Heptane (MW=100)	23	76	96	310

Client Sample ID: OC_SVE_VMP-17_011921

Lab ID#: 2101535-15A

No Detections Were Found.

Client Sample ID: OC_SVE_VMP-17_011921K

Lab ID#: 2101535-16A

No Detections Were Found.

Client Sample ID: OC_SVE_VMP-16_011921

Lab ID#: 2101535-17A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-16_011921

Lab ID#: 2101535-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	1.2	8.2	8.3

Client Sample ID: OC_SVE_VMP-27_011921

Lab ID#: 2101535-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	18	28	42
2-Propanol	4.7	5.1	12	12

Client Sample ID: OC_SVE_VMP-22_011921

Lab ID#: 2101535-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	4.9	14	15	44
Tetrachloroethene	1.2	6.4	8.3	43
TNMOC ref. to Heptane (MW=100)	24	120	100	490

Client Sample ID: OC_SVE_VMP-5_011921

Lab ID#: 2101535-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	68	29	160
2-Propanol	4.9	5.7	12	14
2-Butanone (Methyl Ethyl Ketone)	4.9	150	14	440
Trichloroethene	1.2	2.9	6.6	16
Tetrachloroethene	1.2	19	8.4	130
TNMOC ref. to Heptane (MW=100)	25	1600	100	6500

Client Sample ID: OC_SVE_VMP-18_012121

Lab ID#: 2101535-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-18_012121

Lab ID#: 2101535-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.1	2.4	6.4	14
Freon 113	1.1	2.5	8.7	19
Acetone	11	13	27	30
Trichloroethene	1.1	9.3	6.1	50
Tetrachloroethene	1.1	55	7.7	380
TNMOC ref. to Heptane (MW=100)	23	74	93	300

Client Sample ID: OC_SVE_VMP-18_012121K

Lab ID#: 2101535-22A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.2	2.4	6.7	14
Freon 113	1.2	2.7	9.2	20
Trichloroethene	1.2	9.2	6.4	49
Tetrachloroethene	1.2	56	8.1	380
TNMOC ref. to Heptane (MW=100)	24	63	98	260

Client Sample ID: OC_SVE_VMP-26_012121

Lab ID#: 2101535-23A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	2.1	3.9	6.6

Client Sample ID: OC_SVE_VMP-21_012121

Lab ID#: 2101535-24A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	13	14	30	32
Trichloroethene	1.3	2.0	6.8	10
Tetrachloroethene	1.3	12	8.6	82
TNMOC ref. to Heptane (MW=100)	25	27	100	110

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-20_012121

Lab ID#: 2101535-25A

No Detections Were Found.

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Client Sample ID: OC_SVE_VMP-24_011821

Lab ID#: 2101535-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012817**	**Date of Collection:**	**1/18/21 9:20:00 AM**
Dil. Factor:	**2.51**	**Date of Analysis:**	**1/28/21 06:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.2	Not Detected
Freon 114	1.2	Not Detected	8.8	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Bromomethane	12	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Freon 113	1.2	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Acetone	12	Not Detected	30	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	12	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Chloroform	1.2	Not Detected	6.1	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.9	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	1.3	6.7	7.0
1,2-Dichloropropane	1.2	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.1	Not Detected
Toluene	1.2	Not Detected	4.7	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	75	8.5	510
2-Hexanone	5.0	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.6	Not Detected
Chlorobenzene	1.2	Not Detected	5.8	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected

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Client Sample ID: OC_SVE_VMP-24_011821

Lab ID#: 2101535-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012817**	**Date of Collection:**	**1/18/21 9:20:00 AM**
Dil. Factor:	**2.51**	**Date of Analysis:**	**1/28/21 06:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.6	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
1,1-Difluoroethane	5.0	6.3	14	17
Vinyl Acetate	5.0	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	25	95	100	390

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: OC_SVE_VMP-94-24_011821

Lab ID#: 2101535-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012823**	**Date of Collection:**	**1/18/21 10:01:00 AM**
Dil. Factor:	**2.58**	**Date of Analysis:**	**1/28/21 11:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.4	Not Detected
Freon 114	1.3	Not Detected	9.0	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
Bromomethane	13	Not Detected	50	Not Detected
Chloroethane	5.2	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.2	Not Detected
Freon 113	1.3	Not Detected	9.9	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Acetone	13	Not Detected	31	Not Detected
2-Propanol	5.2	Not Detected	13	Not Detected
Carbon Disulfide	5.2	Not Detected	16	Not Detected
3-Chloropropene	5.2	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Methyl tert-butyl ether	5.2	Not Detected	19	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Chloroform	1.3	Not Detected	6.3	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.1	Not Detected
Benzene	1.3	Not Detected	4.1	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.9	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.0	Not Detected
1,4-Dioxane	5.2	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.6	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.3	Not Detected
Toluene	1.3	Not Detected	4.9	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	Not Detected	8.8	Not Detected
2-Hexanone	5.2	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.9	Not Detected
Chlorobenzene	1.3	Not Detected	5.9	Not Detected
Ethyl Benzene	1.3	Not Detected	5.6	Not Detected
m,p-Xylene	1.3	Not Detected	5.6	Not Detected
o-Xylene	1.3	Not Detected	5.6	Not Detected

eurofins | Air Toxics

Client Sample ID: OC_SVE_VMP-94-24_011821

Lab ID#: 2101535-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012823**	**Date of Collection:**	**1/18/21 10:01:00 AM**
Dil. Factor:	**2.58**	**Date of Analysis:**	**1/28/21 11:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.3	Not Detected	5.5	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.7	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,2,4-Trichlorobenzene	5.2	Not Detected	38	Not Detected
Hexachlorobutadiene	5.2	Not Detected	55	Not Detected
1,1-Difluoroethane	5.2	Not Detected	14	Not Detected
Vinyl Acetate	5.2	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	26	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-94-60_011821

Lab ID#: 2101535-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012824**	**Date of Collection:**	**1/18/21 10:15:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**1/29/21 12:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	7.5	8.1	51
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-94-60_011821

Lab ID#: 2101535-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012824**	**Date of Collection:**	**1/18/21 10:15:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**1/29/21 12:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	98	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-43-24_011821

Lab ID#: 2101535-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012825**	**Date of Collection:**	**1/18/21 10:38:00 AM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**1/29/21 12:48 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.3	Not Detected
Freon 114	1.3	Not Detected	8.9	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.1	Not Detected	13	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	Not Detected	30	Not Detected
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	5.1	Not Detected	16	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.1	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.9	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	1.6	8.6	11
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.8	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected

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Client Sample ID: OC_SVE_VMP-43-24_011821

Lab ID#: 2101535-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012825**	**Date of Collection:**	**1/18/21 10:38:00 AM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**1/29/21 12:48 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.6	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected
Vinyl Acetate	5.1	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	25	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: OC_SVE_VMP-95-60_011821

Lab ID#: 2101535-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012826**	**Date of Collection:**	**1/18/21 11:08:00 AM**
Dil. Factor:	**2.46**	**Date of Analysis:**	**1/29/21 01:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	16	8.3	110
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected

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Client Sample ID: OC_SVE_VMP-95-60_011821

Lab ID#: 2101535-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012826**	**Date of Collection:**	**1/18/21 11:08:00 AM**
Dil. Factor:	**2.46**	**Date of Analysis:**	**1/29/21 01:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	25	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: OC_SVE_VMP-31-24_011821

Lab ID#: 2101535-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012827**	**Date of Collection:**	**1/18/21 12:49:00 PM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**1/29/21 01:47 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.4	Not Detected
Freon 114	1.3	Not Detected	9.1	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	5.2	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.3	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	13	Not Detected	31	Not Detected
2-Propanol	5.2	Not Detected	13	Not Detected
Carbon Disulfide	5.2	Not Detected	16	Not Detected
3-Chloropropene	5.2	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Methyl tert-butyl ether	5.2	Not Detected	19	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	Not Detected	4.6	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.1	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.2	Not Detected
Benzene	1.3	Not Detected	4.2	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Trichloroethene	1.3	Not Detected	7.0	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.0	Not Detected
1,4-Dioxane	5.2	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.7	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.9	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.3	Not Detected
Toluene	1.3	Not Detected	4.9	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.9	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.1	Not Detected
Tetrachloroethene	1.3	1.3	8.8	8.8
2-Hexanone	5.2	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.0	Not Detected
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	Not Detected	5.7	Not Detected
o-Xylene	1.3	Not Detected	5.7	Not Detected

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Client Sample ID: OC_SVE_VMP-31-24_011821

Lab ID#: 2101535-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012827**	**Date of Collection:**	**1/18/21 12:49:00 PM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**1/29/21 01:47 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.0	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.4	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.4	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.4	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,2,4-Trichlorobenzene	5.2	Not Detected	39	Not Detected
Hexachlorobutadiene	5.2	Not Detected	56	Not Detected
1,1-Difluoroethane	5.2	Not Detected	14	Not Detected
Vinyl Acetate	5.2	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	26	Not Detected	110	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: OC_SVE_VMP-32-24_011821

Lab ID#: 2101535-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012828**	**Date of Collection:**	**1/18/21 1:23:00 PM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**1/29/21 02:16 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.3	Not Detected
Freon 114	1.3	Not Detected	8.9	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.1	Not Detected	13	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	Not Detected	30	Not Detected
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	5.1	Not Detected	16	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.1	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.9	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	2.4	8.6	16
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.8	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected

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Client Sample ID: OC_SVE_VMP-32-24_011821

Lab ID#: 2101535-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012828**	**Date of Collection:**	**1/18/21 1:23:00 PM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**1/29/21 02:16 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.6	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected
Vinyl Acetate	5.1	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	25	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: OC_SVE_VMP-32-60_011821

Lab ID#: 2101535-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012829**	**Date of Collection:**	**1/18/21 1:36:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**1/29/21 02:46 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 114	1.2	Not Detected	8.0	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	2.9	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.6	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.2	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.7	Not Detected
Toluene	1.2	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	5.6	7.8	38
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.8	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-32-60_011821

Lab ID#: 2101535-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012829**	**Date of Collection:**	**1/18/21 1:36:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**1/29/21 02:46 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	4.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	7.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	Not Detected	94	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: OC_SVE_VMP-12_011921

Lab ID#: 2101535-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012907**	**Date of Collection:**	**1/19/21 7:38:00 AM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/29/21 01:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	5.3	14	16
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected

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Client Sample ID: OC_SVE_VMP-12_011921

Lab ID#: 2101535-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012907**	**Date of Collection:**	**1/19/21 7:38:00 AM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/29/21 01:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	25	75	100	310

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: OC_SVE_VMP-11_011921

Lab ID#: 2101535-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012908**	**Date of Collection:**	**1/19/21 8:09:00 AM**
Dil. Factor:	**2.46**	**Date of Analysis:**	**1/29/21 01:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
1,1-Dichloroethene	1.2	5.2	4.9	21
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	6.4	6.6	34
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	95	8.3	640
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected

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Client Sample ID: OC_SVE_VMP-11_011921

Lab ID#: 2101535-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012908**	**Date of Collection:**	**1/19/21 8:09:00 AM**
Dil. Factor:	**2.46**	**Date of Analysis:**	**1/29/21 01:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	25	160	100	650

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-92-70_011921

Lab ID#: 2101535-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012909**	**Date of Collection:**	**1/19/21 8:29:00 AM**
Dil. Factor:	**2.46**	**Date of Analysis:**	**1/29/21 02:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	78	6.9	440
Freon 113	1.2	260	9.4	2000
1,1-Dichloroethene	1.2	140	4.9	580
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	1.2	3.2	6.0	15
1,1,1-Trichloroethane	1.2	2.3	6.7	12
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	35	6.6	190
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	490	8.3	3400
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected

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Client Sample ID: OC_SVE_VMP-92-70_011921

Lab ID#: 2101535-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012909**	**Date of Collection:**	**1/19/21 8:29:00 AM**
Dil. Factor:	**2.46**	**Date of Analysis:**	**1/29/21 02:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	25	1200	100	4900

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	103	70-130

eurofins | Air Toxics

Client Sample ID: OC_SVE_VMP-15_011921

Lab ID#: 2101535-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012911**	**Date of Collection:**	**1/19/21 9:24:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/29/21 03:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	5.6	7.9	38
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

eurofins | Air Toxics

Client Sample ID: OC_SVE_VMP-15_011921

Lab ID#: 2101535-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012911**	**Date of Collection:**	**1/19/21 9:24:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**1/29/21 03:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	Not Detected	12	Not Detected
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	68	95	280

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: OC_SVE_VMP-15_011921K

Lab ID#: 2101535-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012912**	**Date of Collection:**	**1/19/21 9:24:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**1/29/21 03:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	24	28	57
2-Propanol	4.7	Not Detected	12	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	11	4.6	45
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	5.0	6.3	27
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	5.7	7.9	39
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected

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Client Sample ID: OC_SVE_VMP-15_011921K

Lab ID#: 2101535-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012912**	**Date of Collection:**	**1/19/21 9:24:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**1/29/21 03:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	Not Detected	13	Not Detected
Vinyl Acetate	4.7	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	76	96	310

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: OC_SVE_VMP-17_011921

Lab ID#: 2101535-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012913**	**Date of Collection:**	**1/19/21 10:06:00 AM**
Dil. Factor:	**2.56**	**Date of Analysis:**	**1/29/21 04:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.3	Not Detected
Freon 114	1.3	Not Detected	8.9	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
Bromomethane	13	Not Detected	50	Not Detected
Chloroethane	5.1	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.2	Not Detected
Freon 113	1.3	Not Detected	9.8	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Acetone	13	Not Detected	30	Not Detected
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	5.1	Not Detected	16	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.1	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
Benzene	1.3	Not Detected	4.1	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.9	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.9	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.6	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	Not Detected	8.7	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.8	Not Detected
Chlorobenzene	1.3	Not Detected	5.9	Not Detected
Ethyl Benzene	1.3	Not Detected	5.6	Not Detected
m,p-Xylene	1.3	Not Detected	5.6	Not Detected
o-Xylene	1.3	Not Detected	5.6	Not Detected

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Client Sample ID: OC_SVE_VMP-17_011921

Lab ID#: 2101535-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012913**	**Date of Collection:**	**1/19/21 10:06:00 AM**
Dil. Factor:	**2.56**	**Date of Analysis:**	**1/29/21 04:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.7	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.7	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.6	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	55	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected
Vinyl Acetate	5.1	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	26	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-17_011921K

Lab ID#: 2101535-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012914**	**Date of Collection:**	**1/19/21 10:04:00 AM**
Dil. Factor:	**2.39**	**Date of Analysis:**	**1/29/21 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-17_011921K

Lab ID#: 2101535-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012914**	**Date of Collection:**	**1/19/21 10:04:00 AM**
Dil. Factor:	**2.39**	**Date of Analysis:**	**1/29/21 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	98	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: OC_SVE_VMP-16_011921

Lab ID#: 2101535-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012915**	**Date of Collection:**	**1/19/21 10:48:00 AM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**1/29/21 05:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	1.2	8.2	8.3
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-16_011921

Lab ID#: 2101535-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012915**	**Date of Collection:**	**1/19/21 10:48:00 AM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**1/29/21 05:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	99	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-27_011921

Lab ID#: 2101535-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012916**	**Date of Collection:**	**1/19/21 12:38:00 PM**
Dil. Factor:	**2.37**	**Date of Analysis:**	**1/29/21 05:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	18	28	42
2-Propanol	4.7	5.1	12	12
Carbon Disulfide	4.7	Not Detected	15	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.9	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.0	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected

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Client Sample ID: OC_SVE_VMP-27_011921

Lab ID#: 2101535-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012916**	**Date of Collection:**	**1/19/21 12:38:00 PM**
Dil. Factor:	**2.37**	**Date of Analysis:**	**1/29/21 05:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.1	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
1,1-Difluoroethane	4.7	Not Detected	13	Not Detected
Vinyl Acetate	4.7	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	97	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-22_011921

Lab ID#: 2101535-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012917**	**Date of Collection:**	**1/19/21 1:20:00 PM**
Dil. Factor:	**2.45**	**Date of Analysis:**	**1/29/21 05:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	14	15	44
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	6.4	8.3	43
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected

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Client Sample ID: OC_SVE_VMP-22_011921

Lab ID#: 2101535-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012917**	**Date of Collection:**	**1/19/21 1:20:00 PM**
Dil. Factor:	**2.45**	**Date of Analysis:**	**1/29/21 05:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	120	100	490

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: OC_SVE_VMP-5_011921

Lab ID#: 2101535-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012918**	**Date of Collection:**	**1/19/21 1:35:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/29/21 06:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	68	29	160
2-Propanol	4.9	5.7	12	14
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	150	14	440
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	2.9	6.6	16
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	19	8.4	130
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected

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Client Sample ID: OC_SVE_VMP-5_011921

Lab ID#: 2101535-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012918**	**Date of Collection:**	**1/19/21 1:35:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**1/29/21 06:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	25	1600	100	6500

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: OC_SVE_VMP-18_012121

Lab ID#: 2101535-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012920**	**Date of Collection:**	**1/21/21 7:55:00 AM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**1/29/21 09:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.6	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	2.4	6.4	14
Freon 113	1.1	2.5	8.7	19
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	13	27	30
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	9.3	6.1	50
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	55	7.7	380
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected

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Client Sample ID: OC_SVE_VMP-18_012121

Lab ID#: 2101535-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012920**	**Date of Collection:**	**1/21/21 7:55:00 AM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**1/29/21 09:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected
Vinyl Acetate	4.6	Not Detected	16	Not Detected
TNMOC ref. to Heptane (MW=100)	23	74	93	300

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-18_012121K

Lab ID#: 2101535-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012921**	**Date of Collection:**	**1/21/21 7:48:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**1/29/21 10:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	2.4	6.7	14
Freon 113	1.2	2.7	9.2	20
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	9.2	6.4	49
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	56	8.1	380
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-18_012121K

Lab ID#: 2101535-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012921**	**Date of Collection:**	**1/21/21 7:48:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**1/29/21 10:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	63	98	260

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: OC_SVE_VMP-26_012121

Lab ID#: 2101535-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012922**	**Date of Collection:**	**1/21/21 9:07:00 AM**
Dil. Factor:	**2.45**	**Date of Analysis:**	**1/29/21 10:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	2.1	3.9	6.6
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.3	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected

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Client Sample ID: OC_SVE_VMP-26_012121

Lab ID#: 2101535-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012922**	**Date of Collection:**	**1/21/21 9:07:00 AM**
Dil. Factor:	**2.45**	**Date of Analysis:**	**1/29/21 10:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected
Vinyl Acetate	4.9	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: OC_SVE_VMP-21_012121

Lab ID#: 2101535-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012923**	**Date of Collection:**	**1/21/21 9:42:00 AM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**1/29/21 11:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.3	Not Detected
Freon 114	1.3	Not Detected	8.9	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.1	Not Detected	13	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	14	30	32
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	5.1	Not Detected	16	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.1	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Trichloroethene	1.3	2.0	6.8	10
1,2-Dichloropropane	1.3	Not Detected	5.9	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	12	8.6	82
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.8	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected

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Client Sample ID: OC_SVE_VMP-21_012121

Lab ID#: 2101535-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012923**	**Date of Collection:**	**1/21/21 9:42:00 AM**
Dil. Factor:	**2.54**	**Date of Analysis:**	**1/29/21 11:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.6	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected
Vinyl Acetate	5.1	Not Detected	18	Not Detected
TNMOC ref. to Heptane (MW=100)	25	27	100	110

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: OC_SVE_VMP-20_012121

Lab ID#: 2101535-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012924**	**Date of Collection:**	**1/21/21 10:29:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/29/21 11:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected

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Client Sample ID: OC_SVE_VMP-20_012121

Lab ID#: 2101535-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012924**	**Date of Collection:**	**1/21/21 10:29:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**1/29/21 11:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected
Vinyl Acetate	4.8	Not Detected	17	Not Detected
TNMOC ref. to Heptane (MW=100)	24	Not Detected	97	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101535-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012806c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 12:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2101535-27A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012806c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 12:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2101535-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 12:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2101535-27B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 12:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 2101535-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 10:04 AM**

Compound	%Recovery
Freon 12	107
Freon 114	100
Chloromethane	88
Vinyl Chloride	94
Bromomethane	94
Chloroethane	98
Freon 11	106
Freon 113	98
1,1-Dichloroethene	103
Acetone	91
2-Propanol	89
Carbon Disulfide	94
3-Chloropropene	103
Methylene Chloride	97
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	102
Hexane	101
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	106
Chloroform	108
1,1,1-Trichloroethane	104
Carbon Tetrachloride	112
Benzene	104
1,2-Dichloroethane	110
Trichloroethene	106
1,2-Dichloropropane	100
1,4-Dioxane	101
Bromodichloromethane	108
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	98
Toluene	105
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	103
Tetrachloroethene	107
2-Hexanone	100
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	105
Chlorobenzene	103
Ethyl Benzene	104
m,p-Xylene	108
o-Xylene	107

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Client Sample ID: CCV

Lab ID#: 2101535-28A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 10:04 AM**

Compound	%Recovery
Styrene	111
Bromoform	110
1,1,2,2-Tetrachloroethane	99
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	107
1,1-Difluoroethane	106
Vinyl Acetate	118
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: CCV

Lab ID#: 2101535-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012902**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 09:40 AM**

Compound	%Recovery
Freon 12	110
Freon 114	102
Chloromethane	85
Vinyl Chloride	96
Bromomethane	101
Chloroethane	96
Freon 11	109
Freon 113	103
1,1-Dichloroethene	102
Acetone	89
2-Propanol	87
Carbon Disulfide	95
3-Chloropropene	100
Methylene Chloride	96
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	104
Hexane	100
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	105
Chloroform	109
1,1,1-Trichloroethane	105
Carbon Tetrachloride	113
Benzene	103
1,2-Dichloroethane	110
Trichloroethene	106
1,2-Dichloropropane	98
1,4-Dioxane	100
Bromodichloromethane	108
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	97
Toluene	104
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	104
Tetrachloroethene	107
2-Hexanone	98
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	105
Chlorobenzene	103
Ethyl Benzene	104
m,p-Xylene	107
o-Xylene	107

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Client Sample ID: CCV

Lab ID#: 2101535-28B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 09:40 AM**	

Compound	**%Recovery**
Styrene	111
Bromoform	110
1,1,2,2-Tetrachloroethane	98
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	105
1,1-Difluoroethane	104
Vinyl Acetate	112
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS

Lab ID#: 2101535-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 10:33 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	104	70-130
Chloromethane	85	70-130
Vinyl Chloride	98	70-130
Bromomethane	94	70-130
Chloroethane	98	70-130
Freon 11	109	70-130
Freon 113	102	70-130
1,1-Dichloroethene	110	70-130
Acetone	97	70-130
2-Propanol	95	70-130
Carbon Disulfide	98	70-130
3-Chloropropene	105	70-130
Methylene Chloride	98	70-130
Methyl tert-butyl ether	105	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	104	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	112	70-130
Chloroform	111	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	119	70-130
Benzene	101	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	96	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	106	70-130
2-Hexanone	100	70-130
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	107	70-130
Chlorobenzene	104	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	110	70-130
o-Xylene	107	70-130

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Client Sample ID: LCS

Lab ID#: 2101535-29A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 10:33 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	112	70-130
Bromoform	111	70-130
1,1,2,2-Tetrachloroethane	99	70-130
4-Ethyltoluene	107	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	109	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	115	70-130
Hexachlorobutadiene	119	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	120	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 2101535-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 11:01 AM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	101	70-130
Chloromethane	82	70-130
Vinyl Chloride	93	70-130
Bromomethane	91	70-130
Chloroethane	99	70-130
Freon 11	106	70-130
Freon 113	101	70-130
1,1-Dichloroethene	108	70-130
Acetone	95	70-130
2-Propanol	94	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	102	70-130
Methylene Chloride	96	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	102	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	105	70-130
cis-1,2-Dichloroethene	109	70-130
Chloroform	110	70-130
1,1,1-Trichloroethane	104	70-130
Carbon Tetrachloride	115	70-130
Benzene	101	70-130
1,2-Dichloroethane	105	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	106	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	106	70-130
2-Hexanone	99	70-130
Dibromochloromethane	108	70-130
1,2-Dibromoethane (EDB)	106	70-130
Chlorobenzene	104	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	110	70-130
o-Xylene	107	70-130

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Client Sample ID: LCSD

Lab ID#: 2101535-29AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/21 11:01 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	112	70-130
Bromoform	111	70-130
1,1,2,2-Tetrachloroethane	98	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	109	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	117	70-130
Hexachlorobutadiene	121	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	120	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCS

Lab ID#: 2101535-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 10:09 AM**	

Compound	%Recovery	Method Limits
Freon 12	107	70-130
Freon 114	100	70-130
Chloromethane	78	70-130
Vinyl Chloride	94	70-130
Bromomethane	95	70-130
Chloroethane	92	70-130
Freon 11	106	70-130
Freon 113	99	70-130
1,1-Dichloroethene	106	70-130
Acetone	93	70-130
2-Propanol	92	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	102	70-130
Methylene Chloride	95	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	102	70-130
Hexane	98	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	106	70-130
Chloroform	108	70-130
1,1,1-Trichloroethane	104	70-130
Carbon Tetrachloride	116	70-130
Benzene	101	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	105	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	106	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	105	70-130
2-Hexanone	98	70-130
Dibromochloromethane	107	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	108	70-130
o-Xylene	104	70-130

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Client Sample ID: LCS

Lab ID#: 2101535-29B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 10:09 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	110	70-130
Bromoform	110	70-130
1,1,2,2-Tetrachloroethane	97	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	111	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	116	70-130
Hexachlorobutadiene	120	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	114	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCSD

Lab ID#: 2101535-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 10:38 AM**	

Compound	%Recovery	Method Limits
Freon 12	107	70-130
Freon 114	101	70-130
Chloromethane	79	70-130
Vinyl Chloride	96	70-130
Bromomethane	91	70-130
Chloroethane	93	70-130
Freon 11	106	70-130
Freon 113	100	70-130
1,1-Dichloroethene	108	70-130
Acetone	89	70-130
2-Propanol	92	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	99	70-130
Methylene Chloride	94	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	99	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	108	70-130
Chloroform	108	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	112	70-130
Benzene	101	70-130
1,2-Dichloroethane	105	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	106	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	106	70-130
2-Hexanone	97	70-130
Dibromochloromethane	107	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	108	70-130
o-Xylene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 2101535-29BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p012904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/29/21 10:38 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	110	70-130
Bromoform	108	70-130
1,1,2,2-Tetrachloroethane	96	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	119	70-130
Hexachlorobutadiene	122	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	116	70-130
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	108	70-130

2101535

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

AIR CHAIN OF CUSTODY RECORD

DATE: 1/18/2021
PAGE: 1 OF 2

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - Annual VMP January 2021
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☑ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES: TO-15 (TAL 24)

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 24)
01A	1	OC_SVE_VMP-24_01 18 21	VMP-24	SV	1L2646	1 L	20141	1/18/2021	0912	-28	1/18/2021	0920	-5	X
02A	2	OC_SVE_VMP-94-24_01 18 21	VMP-94-24	SV	1L2423	1 L	30960	1/18/2021	0955	-26	1/18/2021	1001	-5	X
03A	3	OC_SVE_VMP-94-60_01 18 21	VMP-94-60	SV	1L3078	1 L	21484	1/18/2021	1008	-28	1/18/2021	1015	-5	X
04A	4	OC_SVE_VMP-43-24_01 18 21	VMP-43-24	SV	1L1776	1 L	25361	1/18/2021	1033	-25	1/18/2021	1038	-4	X
05A	5	OC_SVE_VMP-95-60_01 18 21	VMP-95-60	SV	1L2395	1 L	20111	1/18/2021	1103	-26	1/18/2021	1108	-4.5	X
06A	6	OC_SVE_VMP-31-24_01 18 21	VMP-31-24	SV	1L2939	1 L	30650	1/18/2021	1241	-27	1/18/2021	1249	-5	X
	7	~~OC_SVE_VMP-31-70_01 18 21~~	~~VMP-31-70~~	SV	~~1L2753~~	~~1 L~~	~~22266~~	~~1/18/2021~~			~~1/18/2021~~			X (EXA)
07A	8	OC_SVE_VMP-32-24_01 18 21	VMP-32-24	SV	1L2753	1 L	22266	1/18/2021	1317	-27	1/18/2021	1323	-4	X
08A	9	OC_SVE_VMP-32-60_01 18 21	VMP-32-60	SV	LC038	1 L	24599	1/18/2021	1330	-28	1/18/2021	1336	-2	X
09A	10	OC_SVE_VMP-12_01 19 21	VMP-12	SV	1L2518	1 L	30982	1/19/2021	0730	-25	1/19/2021	0738	-5	X
10A	11	OC_SVE_VMP-11_01 19 21	VMP-11	SV	~~1L2221~~ 1L3384	1 L	21432	1/19/2021	0757	-28	1/19/2021	0809	-5	X
11A	12	OC_SVE_VMP-92-70_01 19 21	VMP-92-70	SV	1L2557	1 L	22506	1/19/2021	0821	-27	1/19/2021	0829	-5	X
12A	13	OC_SVE_VMP-93-60_01 19 21	VMP-93-60	SV	1L2786	1 L	21437	1/19/2021	0838	-26	1/19/2021	0843	-5	X
13A	14	OC_SVE_VMP-15_01 19 21	VMP-15	SV	1L1502	1 L	22433	1/19/2021	0914	-26	1/19/2021	0924	-3	X
14A	15	OC_SVE_VMP-15_01 19 21 k	VMP-15	SV	1L2834	1 L	21483	1/19/2021	0914	-28	1/19/2021	0924	-5	X
15A	16	OC_SVE_VMP-17_01 19 21	VMP-17	SV	1L3872	1 L	30630	1/19/2021	0958	-26	1/19/2021	1006	-5	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	EXTL	1-25-21	0942
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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Custody Seal Intact?
Y N None Temp NW

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

AIR CHAIN OF CUSTODY RECORD

DATE: 1/19/2021
PAGE: 2 OF 2

LABORATORY CLIENT: de maximis
ADDRESS: 1322 Scott St., Suite 104
CITY: San Diego STATE: CA ZIP: 92106
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com

CLIENT PROJECT NAME / NUMBER: Omega - Annual VMP January 2021
PROJECT ADDRESS: 12520 Whittier Blvd.
CITY: Whittier STATE: CA ZIP: 90602
PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com

P.O. NO.:
LAB CONTACT OR QUOTE NO.:
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS

SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☒ EDD

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

	LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)
16A	1	OC_SVE_VMP-17_01 19 21 K	VMP-17	SV	162105	1 L	24572	1/19/2021	0958	-26.5	1/19/2021	1004	-5	X
17A	2	OC_SVE_VMP-16_01 19 21	VMP-16	SV	163239	1 L	22262	1/19/2021	1043	-26.5	1/19/2021	1048	-5	X
18A	3	OC_SVE_VMP-27_01 19 21	VMP-27	SV	162495	1 L	20261	1/19/2021	1230	-27	1/19/2021	1238	-5	X
19A	4	OC_SVE_VMP-22_01 19 21	VMP-22	SV	162345	1 L	25360	1/19/2021	1315	-27	1/19/2021	1320	-5	X
20A	5	OC_SVE_VMP-5_01 19 21	VMP-5	SV	3015	1 L	21336	1/19/2021	1327	-27.5	1/19/2021	1335	-5	X
21A	6	OC_SVE_VMP-18_01 21 21	VMP-18	SV	163214	1 L	100593	1/21/2021	0743	-30	1/21/2021	0755	-5	X
22A	7	OC_SVE_VMP-18_01 21 21 K	VMP-18	SV	162928	1 L	22503	1/21/2021	0743	-29	1/21/2021	0748	-5	X
23A	8	OC_SVE_VMP-26_01 21 21	VMP-26	SV	162767	1 L	24578	1/21/2021	0901	-27	1/21/2021	0907	-4	X
24A	9	OC_SVE_VMP-21_01 21 21	VMP-21	SV	162671	1 L	25038	1/21/2021	0937	-26	1/21/2021	0942	-4	X
25A	10	OC_SVE_VMP-20_01 21 21	VMP-20	SV	163296	1 L	22581	1/21/2021	1023	-28	1/21/2021	1029	-5	X
26A	11	OC_SVE_VMP-20_01 21 21N	EB	SV	162573	1 L	22581	1/21/2021	1300	-25	1/21/2021	1304	-2	X
	12	OC_SVE_VMP-_01 21		SV		1 L		1/ /2021			1/ /2021			X
	13	OC_SVE_VMP-_01 21		SV		1 L		1/ /2021			1/ /2021			X
	14	OC_SVE_VMP-_01 21		SV		1 L		1/ /2021			1/ /2021			X
	15	OC_SVE_VMP-_01 21		SV		1 L		1/ /2021			1/ /2021			X
	16	OC_SVE_VMP-_01 21		SV		1 L		1/ /2021			1/ /2021			X

Trent Ex

Custody Seal Intact? Y N None Temp NA

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	CAL	1-25-21	0942
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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2/18/2021
Ms. Jaime Dinello
DeMaximis, Inc
1340 Reynolds Ave, Suite 105

Irvine CA 92614

Project Name: Omega - Annual VMP January 2021
Project #:
Workorder #: 2102281

Dear Ms. Jaime Dinello

The following report includes the data for the above referenced project for sample(s) received on 2/11/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102281

Work Order Summary

CLIENT:	Ms. Jaime Dinello DeMaximis, Inc 1340 Reynolds Ave, Suite 105 Irvine, CA 92614	**BILL TO:**	Mr. Tom Dorsey Omega Chemical Site Environmental Remediation Trust 1322 Scott St. Suite 104
PHONE:	949.679.9290	**P.O. #**	
FAX:	949.679.9078	**PROJECT #**	Omega - Annual VMP January 2021
DATE RECEIVED:	02/11/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/18/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OC_SVE_VMP-93-60_020921	TO-15	4.7 "Hg	15.6 psi
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/18/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
DeMaximis, Inc
Workorder# 2102281

One 1 Liter Summa Canister sample was received on February 11, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A date and time were not provided by the field sampler.

Analytical Notes

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

A single point calibration for TNMOC referenced to Heptane was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Dilution was performed on sample OC_SVE_VMP-93-60_020921 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
M - Reported value may be biased due to apparent matrix interferences.
CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OC_SVE_VMP-93-60_020921

Lab ID#: 2102281-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	2.0	2.6	11	14
Freon 113	2.0	4.8	16	36
Chloroform	2.0	3.9	9.9	19
Trichloroethene	2.0	7.2	11	39
Tetrachloroethene	2.0	500	14	3400
TNMOC ref. to Heptane (MW=100)	41	840	170	3400

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Client Sample ID: OC_SVE_VMP-93-60_020921

Lab ID#: 2102281-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021618**	**Date of Collection:**	**2/9/21 9:17:00 AM**
Dil. Factor:	**4.07**	**Date of Analysis:**	**2/16/21 07:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.0	Not Detected	10	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	20	Not Detected	42	Not Detected
Vinyl Chloride	2.0	Not Detected	5.2	Not Detected
Bromomethane	20	Not Detected	79	Not Detected
Chloroethane	8.1	Not Detected	21	Not Detected
Freon 11	2.0	2.6	11	14
Freon 113	2.0	4.8	16	36
1,1-Dichloroethene	2.0	Not Detected	8.1	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	8.1	Not Detected	20	Not Detected
Carbon Disulfide	8.1	Not Detected	25	Not Detected
3-Chloropropene	8.1	Not Detected	25	Not Detected
Methylene Chloride	20	Not Detected	71	Not Detected
Methyl tert-butyl ether	8.1	Not Detected	29	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	8.1	Not Detected
Hexane	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	2.0	Not Detected	8.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.1	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	2.0	Not Detected	8.1	Not Detected
Chloroform	2.0	3.9	9.9	19
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Carbon Tetrachloride	2.0	Not Detected	13	Not Detected
Benzene	2.0	Not Detected	6.5	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.2	Not Detected
Trichloroethene	2.0	7.2	11	39
1,2-Dichloropropane	2.0	Not Detected	9.4	Not Detected
1,4-Dioxane	8.1	Not Detected	29	Not Detected
Bromodichloromethane	2.0	Not Detected	14	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.2	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.3	Not Detected
Toluene	2.0	Not Detected	7.7	Not Detected
trans-1,3-Dichloropropene	2.0	Not Detected	9.2	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	500	14	3400
2-Hexanone	8.1	Not Detected	33	Not Detected
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	16	Not Detected
Chlorobenzene	2.0	Not Detected	9.4	Not Detected
Ethyl Benzene	2.0	Not Detected	8.8	Not Detected
m,p-Xylene	2.0	Not Detected	8.8	Not Detected
o-Xylene	2.0	Not Detected	8.8	Not Detected

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Client Sample ID: OC_SVE_VMP-93-60_020921

Lab ID#: 2102281-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021618**	**Date of Collection:**	**2/9/21 9:17:00 AM**
Dil. Factor:	**4.07**	**Date of Analysis:**	**2/16/21 07:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	2.0	Not Detected	8.7	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	10	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.1	Not Detected	60	Not Detected
Hexachlorobutadiene	8.1	Not Detected	87	Not Detected
1,1-Difluoroethane	8.1	Not Detected	22	Not Detected
Vinyl Acetate	8.1	Not Detected	29	Not Detected
TNMOC ref. to Heptane (MW=100)	41	840	170	3400

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2102281-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 10:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2102281-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 10:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
TNMOC ref. to Heptane (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	107	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2102281-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 08:37 AM**

Compound	%Recovery
Freon 12	112
Freon 114	99
Chloromethane	84
Vinyl Chloride	83
Bromomethane	90
Chloroethane	82
Freon 11	115
Freon 113	105
1,1-Dichloroethene	99
Acetone	81
2-Propanol	79
Carbon Disulfide	88
3-Chloropropene	93
Methylene Chloride	87
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	102
Hexane	89
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	98
Chloroform	108
1,1,1-Trichloroethane	115
Carbon Tetrachloride	129
Benzene	96
1,2-Dichloroethane	116
Trichloroethene	103
1,2-Dichloropropane	86
1,4-Dioxane	96
Bromodichloromethane	110
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	90
Toluene	103
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	102
Tetrachloroethene	111
2-Hexanone	92
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	103
Chlorobenzene	103
Ethyl Benzene	106
m,p-Xylene	108
o-Xylene	108

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2102281-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 08:37 AM**	

Compound	**%Recovery**
Styrene	114
Bromoform	120
1,1,2,2-Tetrachloroethane	98
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	116
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	110
1,1-Difluoroethane	92
Vinyl Acetate	104
TNMOC ref. to Heptane (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: LCS

Lab ID#: 2102281-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 09:05 AM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	95	70-130
Chloromethane	78	70-130
Vinyl Chloride	82	70-130
Bromomethane	84	70-130
Chloroethane	75	70-130
Freon 11	111	70-130
Freon 113	103	70-130
1,1-Dichloroethene	103	70-130
Acetone	77	70-130
2-Propanol	78	70-130
Carbon Disulfide	87	70-130
3-Chloropropene	94	70-130
Methylene Chloride	79	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	85	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	98	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	113	70-130
Carbon Tetrachloride	125	70-130
Benzene	96	70-130
1,2-Dichloroethane	116	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	80	70-130
1,4-Dioxane	90	70-130
Bromodichloromethane	109	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	92	70-130
Toluene	104	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	111	70-130
2-Hexanone	92	70-130
Dibromochloromethane	114	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	106	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	112	70-130
o-Xylene	111	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2102281-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 09:05 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	115	70-130
Bromoform	121	70-130
1,1,2,2-Tetrachloroethane	99	70-130
4-Ethyltoluene	117	70-130
1,3,5-Trimethylbenzene	116	70-130
1,2,4-Trimethylbenzene	123	70-130
1,3-Dichlorobenzene	117	70-130
1,4-Dichlorobenzene	120	70-130
alpha-Chlorotoluene	122	70-130
1,2-Dichlorobenzene	116	70-130
1,2,4-Trichlorobenzene	121	70-130
Hexachlorobutadiene	128	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	100	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: LCSD

Lab ID#: 2102281-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 09:33 AM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	92	70-130
Chloromethane	76	70-130
Vinyl Chloride	83	70-130
Bromomethane	80	70-130
Chloroethane	77	70-130
Freon 11	110	70-130
Freon 113	94	70-130
1,1-Dichloroethene	95	70-130
Acetone	73	70-130
2-Propanol	76	70-130
Carbon Disulfide	83	70-130
3-Chloropropene	90	70-130
Methylene Chloride	78	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	95	70-130
Hexane	88	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	99	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	112	70-130
Carbon Tetrachloride	126	70-130
Benzene	94	70-130
1,2-Dichloroethane	110	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	86	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	88	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	109	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	111	70-130
2-Hexanone	92	70-130
Dibromochloromethane	114	70-130
1,2-Dibromoethane (EDB)	106	70-130
Chlorobenzene	106	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	114	70-130
o-Xylene	110	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 2102281-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/16/21 09:33 AM**	

Compound	**%Recovery**	**Method Limits**
Styrene	116	70-130
Bromoform	120	70-130
1,1,2,2-Tetrachloroethane	95	70-130
4-Ethyltoluene	111	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	122	70-130
1,3-Dichlorobenzene	116	70-130
1,4-Dichlorobenzene	119	70-130
alpha-Chlorotoluene	123	70-130
1,2-Dichlorobenzene	117	70-130
1,2,4-Trichlorobenzene	130	70-130
Hexachlorobutadiene	138 Q	70-130
1,1-Difluoroethane	Not Spiked	
Vinyl Acetate	105	60-140
TNMOC ref. to Heptane (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	107	70-130

Calscience Environmental Laboratories, Inc.

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

2102281

AIR CHAIN OF CUSTODY RECORD

DATE: 2/ 9 /2021
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis	CLIENT PROJECT NAME / NUMBER: Omega - Annual VMP January 2021	P.O. NO.:
ADDRESS: 1322 Scott St., Suite 104	PROJECT ADDRESS: 12520 Whittier Blvd.	LAB CONTACT OR QUOTE NO.:
CITY: San Diego STATE: CA ZIP: 92106	CITY: Whittier STATE: CA ZIP: 90602	LAB USE ONLY ☐☐-☐☐☐☐
TEL: (562) 756-8149 EMAIL: jdinello@demaximis.com	PROJECT CONTACT: Trent Henderson thenderson@jacobandhefner.com	
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS	SAMPLER(S): (NAME / SIGNATURE) Khalid Azhar	REQUESTED ANALYSES
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☑ EDD		
SPECIAL INSTRUCTIONS:		

LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Air Type (I) Indoor (SV) Soil Vap. (A) Ambient	Sampling Equipment Info: Canister ID#	Canister Size 6L or 1L	Flow Controller ID#	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	TO-15 (TAL 2.4)				
1	OC_SVE_VMP-93-60 0209 21	VMP-93-60	SV	1L2219	1 L	20135	2/9 /2021	0907	-27	2/9 /2021	0917	-5	X				
2	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
3	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
4	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
5	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
6	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
7	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
8	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
9	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
10	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
11	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
12	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
13	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
14	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
15	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				
16	OC_SVE_VMP- _01 21		SV		1 L		1/ /2021			1/ /2021			X				

Relinquished by: (Signature)	Received by: (Signature)	Date: 2-11-21 Time: 0721
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:

Custody Seal Intact?
Y N (None) Temp AA

ATTACHMENT E

Field Forms

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0730
Location: B1
Weather Conditions: Cool
Field Personnel present: K. Asher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Carpet floors, doors closed, windows closed, 1 worker and 2 dogs inside, typical office shift

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2089 / 23777 -30/-13/-5.5" Hg
Duplicate (K1)/Split (K2): 6L0948 / 24283 -26/-14/-5.5" Hg
Instrument calibration info (including serial numbers): –
Time of sampling: 0737 - 1538
Sample ID: IAQ-B1-011421, IAQ-B1-011421K
Detailed description of sample location: Set on filing cabinet, ~5' high.

Total # of samples: 2

Duplicates: 1

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0730
Location: B2
Weather Conditions: Cool
Field Personnel present: K. Szher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Carpet floors, doors to store are closed, ~2 workers in and out of office, typical office stuff

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0607 / 25187 -30/-14/-6" Hg
Duplicate (K)/Split (K2): –
Instrument calibration info (including serial numbers): –
Time of sampling: 0736 – 1536
Sample ID: IAQ-B2-011421
Detailed description of sample location: set on countertop, ~5' high

Total # of samples: 1

Duplicates: –

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0730
Location: B3
Weather Conditions: Cool
Field Personnel present: K. Schr
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, rollup gates on East and West ends of building are open, several workers inside

HVAC Operation:

- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2261 / 24304 -29/-13.5/-6" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0739 - 1539
Sample ID: IAQ_B3_011421
Detailed description of sample location: setting up on shelf, ~6' high.

Total # of samples: 1

Duplicates: —

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0715
Location: MR1
Weather Conditions: Cool
Field Personnel present: K. Dzher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Carpet floors, door closed, windows closed, nobody inside, container of 'Quick Clean wipes' nearby, typical office stuff.

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☑ Fan running 24/7 after business hours? NO

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2050 / 23405 -28/-13/-6.5" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0721-1511
Sample ID: IAQ_MR1_011421
Detailed description of sample location:
Set on desk, ~4' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0820
Location: SC1
Weather Conditions: Cool
Field Personnel present: K.Dzier
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, windows closed, a lot of tools/machines nearby, several cars inside, ~3-4 workers inside, several spray cans nearby

HVAC Operation:
- ☑ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2647 / 24225 -29 / -12.5 / -3.5" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0825 - 1625
Sample ID: IAQ-SC1-011421
Detailed description of sample location:
Set on shelf towards center of area on south side, ~6' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0820
Location: SC2
Weather Conditions: Cool
Field Personnel present: K.Szner
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floors, rollup gate open, several spray cans around, several paint cans, a few workers around,

HVAC Operation:
- ☑ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2269 / 23205 -29/-14/-2.5"Hg
Duplicate (K)/Split (K2): 6L2105 / 25202 -27/-15/-5"Hg
Instrument calibration info (including serial numbers): -
Time of sampling: 0822 - 1622
Sample ID: IAQ_SC2_011421, IAQ_SC2_011421K
Detailed description of sample location: Set on ground next to paint booth, ~2' high.

Total # of samples: 2

Duplicates: 1

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0820
Location: SC3
Weather Conditions: Cool
Field Personnel present: K. Asher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Tile floors, door closed, ~~[illegible]~~ windows closed, nobody in office, typical office stuff

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L1790 / 23303 -30 / -12 / -2" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0826 - 1626
Sample ID: IAQ_SC3_011421
Detailed description of sample location: Set on desk next to door, ~4' high.

Total # of samples: 1

Duplicates: —

Signature of person making entries: KA

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/15/21
Time of entry: 0830
Location: SUN 1
Weather Conditions: Cool
Field Personnel present: K. Acker
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floor, doors closed, gate is partially open, several tools, several parts around.

HVAC Operation:

- ☒ Not applicable
- ☐ On
- ☐ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0229 / 24312 -29 / -14.5 / -5.5" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0835 - 1635
Sample ID: IAQ-SUN1-011521
Detailed description of sample location: set on some boxes on southeast side of area, ~3' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries: KA

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/15/21
Time of entry: 0830
Location: SUN 2
Weather Conditions: Cool
Field Personnel present: K. Azher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floor, door closed, several CNC machines, several containers of soap.

HVAC Operation:
- ☑ Not applicable
- ☐ On
- ☐ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0792 / 24014 -30 / -14.5 / -6" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0836 - 1636
Sample ID: IAQ-SUN2-011521
Detailed description of sample location:
Set on a shelf on North side of area, ~6' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0910
Location: TP 1
Weather Conditions: Cool
Field Personnel present: K. Azher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Carpet floors, doors closed, windows closed, 1 worker inside, typical office stuff

HVAC Operation:
- ☐ Not applicable
- ☐ On
- ☑ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2405 / 23503 -29/-19/-6" Hg
Duplicate (K)/Split (K2): 1233 / 2086 -30/-20/-3" Hg
Instrument calibration info (including serial numbers): -
Time of sampling: 0913 - 1710
Sample ID: FAQ-TP1-011421, FAQ-TP1-011421K2
Detailed description of sample location:
Set on a chair, ~3' high.

Total # of samples: 2

Duplicates: 1

Signature of person making entries: KG

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0910
Location: TP3
Weather Conditions: Cool
Field Personnel present: K. Azur
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Cement floor, door closed to office, gate open, several paint machines, several containers, tools, workers in and out

HVAC Operation:
- ☑ Not applicable
- ☐ On
- ☐ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2499 / 23218 -27/-19.5/-5" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0915 - 1715
Sample ID: IAQ-TP3-011421
Detailed description of sample location: Set on floor towards center of warehouse, ~2' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0910
Location: AA1
Weather Conditions: Cool
Field Personnel present: K. Arthur
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: several trucks, several asphalt machines, a few workers on property

HVAC Operation:
- ☒ Not applicable
- ☐ On
- ☐ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2731 / 23652 - 30/-18/-6" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0916 - 1716
Sample ID: IAQ_AA1_011421
Detailed description of sample location: Hung up on a pole on Southeast corner of TP building, ~6' high.

Total # of samples: 1

Duplicates: -

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/14/21
Time of entry: 0820
Location: AA3
Weather Conditions: Cool
Field Personnel present: K. Azher
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: Several cars parked nearby

HVAC Operation:
- ☑ Not applicable
- ☐ On
- ☐ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L0456 / 24534 -30/-15/-55"
Duplicate (K)/Split (K2):
Instrument calibration info (including serial numbers): -
Time of sampling: 0824 - 1624
Sample ID: IAQ_AA3_011421
Detailed description of sample location:
Hung up on fence between Star City and Medlin & Sons, ~6' high.

Total # of samples: 1

Duplicates: —

Signature of person making entries:

OMEGA Superfund Site
Indoor Air Quality Monitoring

Date: 1/15/21
Time of entry: 0830
Location: AA95
Weather Conditions: Cool
Field Personnel present: K. Azhar
Field Measurements: -
Deviations from the Sampling Plan: None

Field Observations: A few trucks, a forklift, 1 worker around

HVAC Operation:
- ☑ Not applicable
- ☐ On
- ☐ Off
- ☐ Fan running 24/7 after business hours?

Methods of sample collection and preservation: open/close intake valve
Equipment used to collect samples: 6 L Summa w/ 8 hr Flow Controller
Primary: 6L2856 / 23564 -30/-15/-7" Hg
Duplicate (K)/Split (K2): -
Instrument calibration info (including serial numbers): -
Time of sampling: 0834 - 1634
Sample ID: IAQ_AA95_011521
Detailed description of sample location:

Total # of samples: 1

Duplicates: -

Signature of person making entries:

VAPOR PROBE MONITORING FORM

Omega - VMP Monitoring Q1

Date: 1/18, 1/19, 1/21

Technician: K. Azhe, V. Florea

WELL ID	Purge Volume (Liters) Recomm / Actual	Purge Time (min) Recomm / Actual	Flow Rate (L/min) Recomm / Actual	Vacuum Exerted ("Hg) <7.36"Hg	Date	Time	Observed Vacuum ("H2O)	Take Sample? (Y/N)	Notes
BISHOP									
12519 Putnam St, Whittier, CA									
VMP-23-30	-	-	-		1/18/21	0840	-0.041	N	
VMP-24-30	560 L | 560	12 min | 16	50 L/min | 35	-7	"	0851	-0.078	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-25-30	-	-	-		"	0842	-0.484	N	
KAISER PERMANENTE MEDICAL OFFICES									
12470 Whittier Blvd, Whittier, CA									
VMP-43-6	-	-	-	-	1/18/21	1020	-0.248	N	
VMP-43-12	-	-	-	-		1021	-0.233	N	
VMP-43-24	1.6 mL | 1.6	8 min | 8	200 mL/min | 200	Ø		1022	-0.011	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-94-6	-	-	-	-		0934	-0.135	N	
VMP-94-12	-	-	-	-		0935	-0.163	N	
VMP-94-24	1.6 mL | 1.6	8 min | 8	200 mL/min | 200	Ø		0936	-0.257	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-94-40	-	-	-	-		0937	-0.306	N	
VMP-94-50	-	-	-	-		0938	-0.444	N	
VMP-94-60	1.6 mL | 1.6	8 min | 8	200 mL/min | 200	Ø		0939	-1.480	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-94-70	-	-	-	-		0942	-1.076	N	
VMP-95-50	-	-	-	-		1046	-9.992	N	
VMP-95-60	1.6 mL | 1.6	8 min | 8	200 mL/min | 200	Ø		1049	-2.395	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-95-70	-	-	-	-		1051	-1.156	N	
ROP AND WCCS (FORMER)									
12519 Washington Blvd, Whittier, CA									
VMP-31-6	-	-	-	-	1/18/21	1227	-0.010	N	
VMP-31-12	-	-	-	-		1226	-0.017	N	
VMP-31-24	31 L | 31	7 min | 7	5 L/min | 5	Ø		1228	-0.035	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-31-40	-	-	-	-		1222	-3.388	N	
VMP-31-55	-	-	-	-		1225	-0.128	N	
VMP-31-60	-	-	-	-		1224	Ø	N	
VMP-31-70	31 L | -	7 min | -	5 L/min | -	-		1221	-0.107	Y	No flow while purging attempts,
VMP-32-6	-	-	-	-		1303	Ø	N	
VMP-32-12	-	-	-	-		1302	-0.005	N	

VMP-32-24	31 L | 31	7 min | 7	5 L/min | 5	-4	1/18/21	1304	-0.041	Y	8.0"Hg → 1min. 1,1-DFA
VMP-32-40	-	-	-	-		1319	Ø	N	
VMP-32-55	-	-	-	-		1318	-0.157	N	
VMP-32-60	31 L | 31	7 min | 7	5 L/min | 5	-1		1320	-0.050	Y	8.0"Hg → 1min. 1,1-DFA
VMP-32-70	-	-	-	-		1321	-0.056	N	
SKATELAND (FORMER)									
12520 Whittier Blvd, Whittier, CA									
VMP-18-30	500 L |	10 min | 20	50 L/min | 25	-7	1/21/21	0716	-0.051	Y	8.0"Hg → 1min. 1,1-DFA. DUP
STAR CITY AUTO BODY									
12504 Whittier Blvd, Whittier, CA									
VE-7S	-	-	-	-	1/19/21	1254	-0.276	N	
VMP-22-30	500 L |	10 min | 20	50 L/min | 25	-7		1249	-0.224	Y	8.0"Hg → 1min. 1,1-DFA
VMP-3D	-	-	-	-		1301	-0.711	N	
VMP-4D	-	-	-	-		1258	-1.791	N	
VMP-5-45	23.6 L | 25	5 min | 5	5 L/min | 5			1320	-0.212	Y	8.0"Hg → 1min. 1,1-DFA
TERRA PAVE									
12511 Putnam St, Whittier, CA									
VMP-11-30	490 L | 490	10 min | 14	50 L/min | ~~14~~35	-7	1/19/21	0709	-0.497	Y	8.0"Hg → 1min. 1,1-DFA
VMP-12-30	515 L | 515	10 min | ~~17.2~~	50 L/min | 30	-7		0707	-1.110	Y	8.0"Hg → 1min. 1,1-DFA
VMP-13-30	-	-	-	-		1018	-0.261	N	
VMP-14-30	-	-	-	-		1028	-0.067	N	
VMP-15-30	515 L | 515	11 min | 19	50 L/min | 28	~~-7~~ -5		0812	-0.648	Y	8.0"Hg → 1min. 1,1-DFA. DUP
VMP-16-30	515 L |	11 min | 26 ~~24~~	50 L/min | 20	-7		1015	-1.950	Y	8.0"Hg → 1min. 1,1-DFA
VMP-17-30	515 L | 515	11 min | 26	50 L/min | 20	-7		0815	-1.216	Y	8.0"Hg → 1min. 1,1-DFA DUP
VMP-92-50	-	-	-	-		0806	Ø	N	
VMP-92-60	-	-	-	-		0807	-1.092	N	
VMP-92-70	1.6 mL | 1.6	8 min | 8	200 mL/min | 200	-3.5		0808	-0.950	Y	8.0"Hg → 1min. 1,1-DFA
VMP-93-50	-	-	-	-		0819	-0.975	N	
VMP-93-60	1.6 mL | 1.6	8 min | 8	200 mL/min | 200	-5.5		0820	-1.203	Y	8.0"Hg → 1min. 1,1-DFA
VMP-93-70	-	-	-	-		0824	-1.219	N	
THREE KINGS CONSTRUCTION (FORMER)									
12512 Whittier Blvd, Whittier, CA									
VE-1M	-	-	-	-	1/21/20	0926	-0.610	N	
VE-2S	-	-	-	-		0846	-0.144	N	
VE-4S	-	-	-	-		0852	-0.294	N	
VE-5M	-	-	-	-		0855	-0.868	N	
VMP-1D	-	-	-	-		0856	-0.664	N	
VMP-20-30	515 L |	11 min | 18	50 L/min | 30	-7		0857	-0.419	Y	8.0"Hg → 1min. 1,1-DFA
VMP-21-30	515 L |	11 min | 21	50 L/min | 25	-3		0844	-0.168	Y	8.0"Hg → 1min. 1,1-DFA

								1/21/21				
VMP-26-30	505 L	505	10 min	15	50 L/min	35	-7	~~1/19/21~~	0837	-0.041	Y	8.0"Hg → 1 min. 1,1-DFA
VMP-27-30	495 L	495	10 min	20	50 L/min	25	-7	1/15/21	1200	-0.025	Y	8.5"Hg → 1 min. 1,1-DFA

1 Qtr 2021 VMP Monitoring

VMP-93-60' Re-sample

2/9/21

K. Azhar

VMP-32-24	31 L |	7 min |	5 L/min |					Y	
VMP-32-40								N	
VMP-32-55								N	
VMP-32-60	31 L |	7 min |	5 L/min |					Y	
VMP-32-70								N	
SKATELAND (FORMER) **12520 Whittier Blvd, Whittier, CA**									
VMP-18-30	500 L |	10 min |	50 L/min |					Y	
STAR CITY AUTO BODY **12504 Whittier Blvd, Whittier, CA**									
VE-7S								N	
VMP-22-30	500 L |	10 min |	50 L/min |					Y	
VMP-3D								N	
VMP-4D								N	
VMP-5-45	23.6 L |	5 min |	5 L/min |					Y	
TERRA PAVE **12511 Putnam St, Whittier, CA**									
VMP-11-30	490 L |	10 min |	50 L/min |					Y	
VMP-12-30	515 L |	10 min |	50 L/min |					Y	
VMP-13-30								N	
VMP-14-30								N	
VMP-15-30	515 L |	11 min |	50 L/min |					Y	
VMP-16-30	515 L |	11 min |	50 L/min |					Y	
VMP-17-30	515 L |	11 min |	50 L/min |					Y	
VMP-92-50								N	
VMP-92-60								N	
VMP-92-70	1.6 mL |	8 min |	200 mL/min |					Y	
VMP-93-50								N	
VMP-93-60	1.6 ~~m~~L | 1.4	8 min | 8	200 mL/min | 200	Ø	2/9/21	0855	-0.013	Y	8.0"Hg→1min.11-DFA
VMP-93-70								N	
THREE KINGS CONSTRUCTION (FORMER) **12512 Whittier Blvd, Whittier, CA**									
VE-1M								N	
VE-2S								N	
VE-4S								N	
VE-5M								N	
VMP-1D								N	
VMP-20-30	515 L |	11 min |	50 L/min |					Y	
VMP-21-30	515 L |	11 min |	50 L/min |					Y	

ATTACHMENT G

Data Validation Repots

DATA VALIDATION

FOR

INDOOR AIR QUALITY
OMEGA CHEMICAL SITE
WHITTIER, CALIFORNIA

ORGANIC ANALYSIS DATA
Volatiles in Air

Laboratory Job No.
2101453A
2101453B
M011501

Analyses Performed
By:

Eurofins/Air Toxics, Inc.
Folsom, CA

and

Air Technology Laboratories, Inc.
City of Industry, CA

For:

de maximis, Inc.
1322 Scott Street
Suite 104
San Diego, CA 92106

Data Validation By:

ddms, Inc.
St. Paul, Minnesota 55108

March 18, 2021

1547-3139C/JLR
Omega/1st Qtr. IAQ.docx

EXECUTIVE SUMMARY

The validation of the volatile organics analysis data for 17 air quality samples prepared by Eurofins Air Toxics and one split sample prepared by Air Technology Laboratories from the Omega Chemical Site has been completed by de maximis Data Management Solutions, Inc. (ddms). Stage 4 validation was performed on two samples (**bolded below**), which represents 10% of the total number of samples received and analyzed. A Stage 2B validation was performed on the remaining samples. The data were reported under Laboratory Job Nos. 2101453A, 2101453B and M011501. The following samples were reported:

2101453A

IAQ_B3_011421	IAQ_B2_011421
IAQ_B1_011421	IAQ_B1_011421K
IAQ_TP3_011421	IAQ_TP1_011421
IAQ_AA1_011421	IAQ_SC2_011421
IAQ_SC2_011421K	IAQ_AA3_011421

2101453B

IAQ_SC1_011421	IAQ_SC3_011421
IAQ_SUN1_011521	IAQ_SUN2_011521
IAQ_AA95__011521	IAQ_MR1_011421

M011501

IAQ_TP1_011421K2

Based on the validation effort, the following data qualifiers were applied:

- The results for 1,1,2,2-tetrachloroethane, 1,2-dichlorobenzene and 1,4-dichlorobenzene in the following samples were qualified as estimated (J, UJ):
    - IAQ_B3_011421
    - IAQ_B2_011421
    - IAQ_B1_011421
    - IAQ_B1_011421K
    - IAQ_TP3_011421
    - IAQ_TP1_011421
    - IAQ_AA1_011421
    - IAQ_SC2_011421

- IAQ_SC2_011421K
- IAQ_AA3_011421
- IAQ_SC1_011421
- IAQ_SC3_011421
- IAQ_SUN1_011521
- IAQ_SUN2_011521
- IAQ_AA95__011521
- IAQ_MR1_011421

- The result for acetone in IAQ_TP1_011421K2 was qualified as estimated (J).

- The results for Freon 11, acetone, methylene chloride, ethylbenzene and o-xylene in IAQ_TP3_011421, IAQ_TP1_011421 and IAQ_TP1_011421K2 were qualified as estimated (J)

- The results for Freon 12 in IAQ_TP3_011421, IAQ_TP1_011421 and IAQ_TP1_011421K2 were qualified as estimated (J, UJ).

- The following samples results were qualified as estimated (J) and presumptively present (N):

  - Chloroform:
    - IAQ_B3_011421
    - IAQ_B2_011421
    - IAQ_B1_011421
    - IAQ_B1_011421K
    - IAQ_TP1_011421
    - IAQ_AA1_011421
    - IAQ_AA3_011421
    - IAQ_SC1_011421
    - IAQ_SC3_011421
    - IAQ_SUN1_011521
    - IAQ_SUN2_011521
    - IAQ_AA95__011521
    - IAQ_MR1_011421

  - Carbon tetrachloride
    - IAQ_SC2_011421

  - 1,1,2,2-Tetrachloroethane
    - IAQ_TP1_011421K2

- The result for chloroform in IAQ_TP3_011421 was qualified as not detected (U) at the reported value.

- The results for acetone in the following samples were qualified as estimated (J)

    - IAQ_AA3_011421
    - IAQ_SC2_011421
    - IAQ_SC2_011421K
    - IAQ_SC1_011421
    - IAQ_SC3_011421
    - IAQ_TP1_011421K2

All other results were determined to be valid as reported. Brief explanations of the reasons for the actions taken above may be found in the Overall Assessment (Section IV). Details of the validation findings and conclusions based on review of the results for each quality control requirement are provided in the remaining sections of this report.

This validation report should be considered an integral part of the data package. Results, as qualified by the validator and recommended for use, supersede the sample results reported by the laboratory in the originally provided laboratory analysis reports (Form 1s).

INTRODUCTION

Analyses were performed in accordance with USEPA Method TO-15 and Method TO-15 using Selective Ion Monitoring (SIM). The laboratory provided a Level IV data package for review.

ddms' validation was performed, to the extent possible, in conformance with the "Omega Chemical Superfund Site Sampling and Analysis Plan for Remedial Action/Remedial Design October 4, 2010", ddms Standard Operating Procedure ESC-001 'Validation of Volatile Organics in Air Samples by Method TO-15 and TO-17' and the analytical method. Professional judgment was applied as necessary and appropriate.

The data validation process is intended to evaluate data on a technical basis rather than a contract compliance basis for chemical analyses conducted under the referenced methods. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate quality review prior to submission for validation.

During the validation process, laboratory data are verified against all available supporting documentation. Based on the findings of the evaluation, qualifier codes may be added by the data validator. Validated results are, therefore, either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Final validated results are annotated with the following codes as defined by the National Functional Guidelines:

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

JN The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation may be higher than reported.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

These codes are recorded on the data summary forms contained in Attachment A.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is unusable. In other words, due to significant quality control problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Rejected values should not appear on data tables because they cannot be relied upon, even as a last resort. Second, no concentration is guaranteed to be accurate even if all associated quality control is acceptable. Strict quality control conformance serves only to increase confidence in reported results; any analytical result will always contain some error.

The data user is also cautioned that the validation effort is based on the raw data printouts as provided by the laboratory. Software manipulation cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

I. Holding Times, Preservation and Sample Integrity

Copies of the applicable chain of custody (COC) records were included in the data packages documenting sample collection dates of January 14 and 15, 2020. The samples were shipped via FedEx and received on January 15 and 18, 2020. All samples were analyzed within the method specified hold time.

II. Documentation

No documentation issues were observed during the validation effort.

The remainder of this report is divided into two sections, one reporting the review effort for each of the parameters and the other the Overall Evaluation, summarizing the reason for the qualifications made to sample results as a result of the validation effort. The table below documents the Quality Control (QC) parameters reviewed. Only those quality excursions resulting in qualified data are discussed below. Quality control excursions having no impact to sample results are not discussed. Where a result was qualified J+ or J- and J, the J qualifier takes precedence. Where a result was qualified biased high and low for differing data quality excursions, the final qualifier is J with an indeterminate bias.

III. VOCs

Review Element	Acceptable?
GC/MS Instrument Tunes	Y
Calibration (Initial Calibration [IC], IC Verification [ICV], Continuing Calibration [CC])	N
Laboratory and Field Blanks	Y
Surrogates	Y
Laboratory Control Samples (LCS)	N
Duplicate/Split Samples	N
Matrix Spike (MS)/Matrix Spike Duplicate (MSD)	n/a
Internal Standard Responses	Y
Compound Identification	N
Compound Quantitation	N

n/a-not applicable

Calibration

Two initial calibrations (ICs) were performed in support of sample analyses. All relative response factors (RRFs), relative standard deviations (RSDs) were acceptable (RSD$\leq$30) with the following exceptions:

Instrument/Date	Compound	RSD	Samples Affected
msdv 12/18/20	1,2-Dichlorobezene	32.7	IAQ_B3_011421
	1,4-Dichlorobenzene	30.7	IAQ_B2_011421 IAQ_B1_011421 IAQ_B1_011421K IAQ_TP3_011421 IAQ_TP1_011421 IAQ_AA1_011421 IAQ_SC2_011421 IAQ_SC2_011421K IAQ_AA3_011421 IAQ_SC1_011421 IAQ_SC3_011421 IAQ_SUN1_011521 IAQ_SUN2_011521 IAQ_AA95__011521 IAQ_MR1_011421
msdchem 1/12/21	Acetone	93.0	IAQ_TP1_011421K2

Sample results were qualified as estimated (J, UJ) due to high RSD over the IC, as detailed above.

Continuing calibration (CC) standards were analyzed at the appropriate frequency and were acceptable (±30%R) with the following exceptions:

Instrument/Date	Compound	%R	Samples Affected
msdv 1/27/21	1,1,2,2-Tetrachloroethane	69	IAQ_B3_011421 IAQ_B2_011421 IAQ_B1_011421 IAQ_B1_011421K IAQ_TP3_011421 IAQ_TP1_011421 IAQ_SC1_011421 IAQ_SC3_011421 IAQ_SUN1_011521 IAQ_SUN2_011521 IAQ_AA95__011521 IAQ_MR1_011421
msdv 1/28/21	1,1,2,2-Tetrachloroethane	68	IAQ_AA1_011421 IAQ_SC2_011421 IAQ_SC2_011421K IAQ_AA3_011421

Instrument/Date	Compound	%R	Samples Affected
msdchem 1/12/21	Acetone	30	IAQ_TP1_011421K2

In all instances the response in the CC is a decrease in instrument sensitivity. Sample results were qualified as estimated (J-, UJ) due to low response in the associated CC standard, as detailed above.

Laboratory Control Samples (LCS)

The recoveries of acetone in the LCS and LCS Duplicate (LCSD) reported by the Air Technology Laboratories were biased low (27 / 31 %R), outside acceptance limits (70-130%R). The result for acetone in IAQ_TP1_011421K2 was qualified as estimated (J-) due to the low LCS/LCSD recoveries.

Two LCS/LCSD pairs were reported by Air Toxics is support of sample analyses. The recoveries of 1,1,2,2-tetrachloroethane in both LCS/LCSD pairs were biased low outside acceptance limits:

LCS/LCSD analyzed on 1/27/2021 – 64 / 64 %R
LCS/LCSD analyzed on 1/28/2021 – 65 / 65 %R

The results for 1,1,2,2-tetrachloroethane in the following samples were qualified as estimated (UJ) due to low LCS/LCSD %R:

- IAQ_B3_011421
- IAQ_B2_011421
- IAQ_B1_011421
- IAQ_B1_011421K
- IAQ_TP3_011421
- IAQ_TP1_011421
- IAQ_SC1_011421
- IAQ_SC3_011421
- IAQ_SUN1_011521
- IAQ_SUN2_011521
- IAQ_AA95__011521
- IAQ_MR1_011421
- IAQ_AA1_011421
- IAQ_SC2_011421
- IAQ_SC2_011421K
- IAQ_AA3_011421

Duplicate/Split Samples

IAQ_B1_011421K and IAQ_SC2_011421K were submitted as field duplicates of IAQ_B1_011421 and IAQ_SC2_011421, respectively. Precision between paired samples was acceptable (<20 RPD or <2x the reporting limit for the analytes detected at concentrations less than 5x the RL).

IAQ_TP1_011421K2 was submitted as a split sample of IAQ_TP1_011421. Precision between paired samples was acceptable (<20 RPD or <2x the reporting limit for the analytes detected at concentrations less than 5x the RL) with the following exceptions:

Compound	IAQ_TP1_011421 (ppbv)	IAQ_TP1_011421K2 (ppbv)	RPD
Freon 12	0.37	0.010 (U)	n/c
Freon 11	0.23	0.18	24
Acetone	17	6.9	84
Methylene chloride	0.68	0.47	36
Ethylbenzene	1.9	2.4	23
o-Xylene	3.4	4.2	21

n/c-not calculated

The results for Freon 11, acetone, methylene chloride, ethylbenzene and o-xylene in IAQ_TP3_011421, IAQ_TP1_011421 and IAQ_TP1_011421K2 were qualified as estimated (J) due to imprecision in split samples. The results for Freon 12 in IAQ_TP3_011421, IAQ_TP1_011421 and IAQ_TP1_011421K2 were qualified as estimated (J, UJ) because Freon 12 was not detected in IAQ_TP1_011421K2.

Compound Identification

For SIM analysis, ratios must be determined during initial calibration using the integrated areas for the primary and secondary ions and confirmation from their respective mass chromatograms. Identification in samples is made by verifying the ratio of the secondary ion to the primary. Sample results were qualified as estimated (J) and presumptively present (N) because the ion ratios were outside laboratory acceptance limits as detailed below:

- Chloroform:
  - IAQ_B3_011421
  - IAQ_B2_011421
  - IAQ_B1_011421
  - IAQ_B1_011421K
  - IAQ_TP1_011421
  - IAQ_AA1_011421

    - IAQ_AA3_011421
    - IAQ_SC1_011421
    - IAQ_SC3_011421
    - IAQ_SUN1_011521
    - IAQ_SUN2_011521
    - IAQ_AA95__011521
    - IAQ_MR1_011421

- Carbon tetrachloride
    - IAQ_SC2_011421

- 1,1,2,2-Tetrachloroethane
    - IAQ_TP1_011421K2

The result for chloroform in IAQ_TP3_011421 was qualified as not detected (U) at the reported value due to poor spectral match and because ion ratio was outside acceptance limits.

Compound Quantitation

The results for acetone in the following samples were qualified as estimated (J) because the concentration was outside the calibration range:

- IAQ_AA3_011421
- IAQ_SC2_011421
- IAQ_SC2_011421K
- IAQ_SC1_011421
- IAQ_SC3_011421
- IAQ_TP1_011421K2

IV. Overall Assessment

Based on the validation effort, the following qualifiers were applied:

- The results for 1,2-dichlorobenzene and 1,4-dichlorobenzene in the following samples were qualified as estimated (J, UJ) due to high RSD over the IC:

    - IAQ_B3_011421
    - IAQ_B2_011421
    - IAQ_B1_011421
    - IAQ_B1_011421K
    - IAQ_TP3_011421
    - IAQ_TP1_011421
    - IAQ_AA1_011421

- IAQ_SC2_011421
- IAQ_SC2_011421K
- IAQ_AA3_011421
- IAQ_SC1_011421
- IAQ_SC3_011421
- IAQ_SUN1_011521
- IAQ_SUN2_011521
- IAQ_AA95__011521
- IAQ_MR1_011421

- The result for acetone in IAQ_TP1_011421K2 was qualified as estimated (J) due to high RSD over the IC and because the concentration exceeded the calibration range.

- The result for acetone in IAQ_TP1_011421K2 was qualified as estimated (J-) due to low response in the CC and low LCS recoveries. The 'J' qualifier takes precedence.

- The results for 1,1,2,2-tetrachloroethane the following samples were qualified as estimated (UJ) due to low response in CC and low LCS recoveries:

  - IAQ_B3_011421
  - IAQ_B2_011421
  - IAQ_B1_011421
  - IAQ_B1_011421K
  - IAQ_TP3_011421
  - IAQ_TP1_011421
  - IAQ_AA1_011421
  - IAQ_SC2_011421
  - IAQ_SC2_011421K
  - IAQ_AA3_011421
  - IAQ_SC1_011421
  - IAQ_SC3_011421
  - IAQ_SUN1_011521
  - IAQ_SUN2_011521
  - IAQ_AA95__011521
  - IAQ_MR1_011421

- The results for Freon 11, acetone, methylene chloride, ethylbenzene and o-xylene in IAQ_TP3_011421, IAQ_TP1_011421 and IAQ_TP1_011421K2 were qualified as estimated (J) due to imprecision in split samples.
- The results for Freon 12 in IAQ_TP3_011421, IAQ_TP1_011421 and IAQ_TP1_011421K2 were qualified as estimated (J, UJ) because Freon 12 was not detected in IAQ_TP1_011421K2.

- The following sample results were qualified as estimated (J) and presumptively present (N) because the ion ratios were outside laboratory acceptance limits as detailed below:

    - Chloroform:
        - IAQ_B3_011421
        - IAQ_B2_011421
        - IAQ_B1_011421
        - IAQ_B1_011421K
        - IAQ_TP1_011421
        - IAQ_AA1_011421
        - IAQ_AA3_011421
        - IAQ_SC1_011421
        - IAQ_SC3_011421
        - IAQ_SUN1_011521
        - IAQ_SUN2_011521
        - IAQ_AA95__011521
        - IAQ_MR1_011421

    - Carbon tetrachloride
        - IAQ_SC2_011421

    - 1,1,2,2-Tetrachloroethane
        - IAQ_TP1_011421K2

- The result for chloroform in IAQ_TP3_011421 was qualified as not detected (U) at the reported value due to poor spectral match and because ion ratio was outside acceptance limits.

- The results for acetone in the following samples were qualified as estimated (J) because the concentration exceeded the calibration range:
    - IAQ_AA3_011421
    - IAQ_SC2_011421
    - IAQ_SC2_011421K
    - IAQ_SC1_011421
    - IAQ_SC3_011421
    - IAQ_TP1_011421K2

All other results were determined to be valid as reported.

ATTACHMENT A

DATA SUMMARY FORMS
Volatiles in Air
2101453A
2101453B
M011501

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_AA1_011421		IAQ_AA3_011421		IAQ_B1_011421	
		Lab Sample ID	2101453A-07A		2101453A-10A		2101453A-03A	
		Dilution Factor	1.69		1.72		1.72	
Analytical Method	Parameter	Unit						
TO15	Acetone	ppbv	15		41	J	18	
		ug/m3	36		97	J	43	
TO15	Methylene chloride	ppbv	0.40		0.86		0.35	
		ug/m3	1.4		3.0		1.2	
TO15SIM	1,1,1-Trichloroethane (TCA)	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.18	U	0.19	U	0.19	U
TO15SIM	1,1,2,2-Tetrachloroethane	ppbv	0.034	UJ	0.034	UJ	0.034	UJ
		ug/m3	0.23	UJ	0.24	UJ	0.24	UJ
TO15SIM	1,1,2-Trichloroethane	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.18	U	0.19	U	0.19	U
TO15SIM	1,1-Dichloroethane	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.14	U	0.14	U	0.14	U
TO15SIM	1,1-Dichloroethene	ppbv	0.017	U	0.017	U	0.017	U
		ug/m3	0.067	U	0.068	U	0.068	U
TO15SIM	1,2-Dichlorobenzene	ppbv	0.034	UJ	0.034	UJ	0.034	UJ
		ug/m3	0.20	UJ	0.21	UJ	0.21	UJ
TO15SIM	1,2-Dichloroethane	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.14	U	0.14	U	0.14	U
TO15SIM	1,4-Dichlorobenzene	ppbv	0.034	UJ	0.034	UJ	0.034	UJ
		ug/m3	0.20	UJ	0.21	UJ	0.21	UJ
TO15SIM	Benzene	ppbv	1.1		0.61		0.62	
		ug/m3	3.4		2.0		2.0	
TO15SIM	Carbon tetrachloride	ppbv	0.062		0.062		0.066	
		ug/m3	0.39		0.39		0.42	
TO15SIM	Chlorobenzene	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.16	U	0.16	U	0.16	U
TO15SIM	Chloroform	ppbv	0.046	J,N	0.037	J,N	0.052	J,N
		ug/m3	0.22	J,N	0.18	J,N	0.26	J,N
TO15SIM	cis-1,2-Dichloroethene	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.13	U	0.14	U	0.14	U
TO15SIM	Ethylbenzene	ppbv	0.84		0.33		0.26	
		ug/m3	3.6		1.4		1.1	
TO15SIM	Freon 11	ppbv	0.21		0.22		0.22	
		ug/m3	1.2		1.2		1.3	
TO15SIM	Freon 113	ppbv	0.069		0.070		0.069	
		ug/m3	0.53		0.53		0.52	

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_AA1_011421		IAQ_AA3_011421		IAQ_B1_011421	
		Lab Sample ID	2101453A-07A		2101453A-10A		2101453A-03A	
		Dilution Factor	1.69		1.72		1.72	
Analytical Method	Parameter	Unit						
TO15SIM	Freon 12	ppbv	0.37		0.38		0.39	
		ug/m3	1.8		1.9		1.9	
TO15SIM	m,p-Xylene	ppbv	3.9		1.4		1.0	
		ug/m3	17		6.0		4.4	
TO15SIM	Methyl Tert-Butyl Ether	ppbv	0.17	U	0.17	U	0.17	U
		ug/m3	0.61	U	0.62	U	0.62	U
TO15SIM	o-Xylene	ppbv	1.4		0.46		0.36	
		ug/m3	6.1		2.0		1.6	
TO15SIM	Tetrachloroethene (PCE)	ppbv	0.068		0.038		0.037	
		ug/m3	0.46		0.26		0.25	
TO15SIM	Toluene	ppbv	5.4		1.6		1.7	
		ug/m3	20		6.0		6.5	
TO15SIM	trans-1,2-Dichloroethene	ppbv	0.17	U	0.17	U	0.17	U
		ug/m3	0.67	U	0.68	U	0.68	U
TO15SIM	trans-1,3-Dichloropropene	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.15	U	0.16	U	0.16	U
TO15SIM	Trichloroethene (TCE)	ppbv	0.034	U	0.034	U	0.034	U
		ug/m3	0.18	U	0.18	U	0.18	U
TO15SIM	Vinyl chloride	ppbv	0.017	U	0.017	U	0.017	U
		ug/m3	0.043	U	0.044	U	0.044	U

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_B1_011421K		IAQ_B2_011421		IAQ_B3_011421	
		Lab Sample ID	2101453A-04A		2101453A-02A		2101453A-01A	
		Dilution Factor	1.68		1.69		1.65	
Analytical Method	Parameter	Unit						
TO15	Acetone	ppbv	17		30		16	
		ug/m3	40		72		38	
TO15	Methylene chloride	ppbv	0.34	U	0.34	U	0.33	U
		ug/m3	1.2	U	1.2	U	1.1	U
TO15SIM	1,1,1-Trichloroethane (TCA)	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.18	U	0.18	U	0.18	U
TO15SIM	1,1,2,2-Tetrachloroethane	ppbv	0.034	UJ	0.034	UJ	0.033	UJ
		ug/m3	0.23	UJ	0.23	UJ	0.23	UJ
TO15SIM	1,1,2-Trichloroethane	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.18	U	0.18	U	0.18	U
TO15SIM	1,1-Dichloroethane	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.14	U	0.14	U	0.13	U
TO15SIM	1,1-Dichloroethene	ppbv	0.017	U	0.017	U	0.016	U
		ug/m3	0.067	U	0.067	U	0.065	U
TO15SIM	1,2-Dichlorobenzene	ppbv	0.034	UJ	0.034	UJ	0.033	UJ
		ug/m3	0.20	UJ	0.20	UJ	0.20	UJ
TO15SIM	1,2-Dichloroethane	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.14	U	0.14	U	0.13	U
TO15SIM	1,4-Dichlorobenzene	ppbv	0.034	UJ	0.034	J	0.033	UJ
		ug/m3	0.20	UJ	0.20	J	0.20	UJ
TO15SIM	Benzene	ppbv	0.59		0.64		0.59	
		ug/m3	1.9		2.0		1.9	
TO15SIM	Carbon tetrachloride	ppbv	0.066		0.061		0.064	
		ug/m3	0.41		0.38		0.40	
TO15SIM	Chlorobenzene	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.15	U	0.16	U	0.15	U
TO15SIM	Chloroform	ppbv	0.049	J,N	0.044	J,N	0.039	J,N
		ug/m3	0.24	J,N	0.21	J,N	0.19	J,N
TO15SIM	cis-1,2-Dichloroethene	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.13	U	0.13	U	0.13	U
TO15SIM	Ethylbenzene	ppbv	0.26		0.39		0.29	
		ug/m3	1.1		1.7		1.3	
TO15SIM	Freon 11	ppbv	0.22		0.22		0.23	
		ug/m3	1.2		1.2		1.3	
TO15SIM	Freon 113	ppbv	0.068		0.069		0.068	
		ug/m3	0.52		0.53		0.52	

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_B1_011421K		IAQ_B2_011421		IAQ_B3_011421	
		Lab Sample ID	2101453A-04A		2101453A-02A		2101453A-01A	
		Dilution Factor	1.68		1.69		1.65	
Analytical Method	Parameter	Unit						
TO15SIM	Freon 12	ppbv	0.38		0.38		0.39	
		ug/m3	1.9		1.9		1.9	
TO15SIM	m,p-Xylene	ppbv	1.0		1.6		1.1	
		ug/m3	4.3		6.9		4.7	
TO15SIM	Methyl Tert-Butyl Ether	ppbv	0.17	U	0.17	U	0.16	U
		ug/m3	0.60	U	0.61	U	0.59	U
TO15SIM	o-Xylene	ppbv	0.36		0.55		0.38	
		ug/m3	1.6		2.4		1.7	
TO15SIM	Tetrachloroethene (PCE)	ppbv	0.038		0.052		0.038	
		ug/m3	0.26		0.35		0.26	
TO15SIM	Toluene	ppbv	1.6		2.6		2.3	
		ug/m3	6.2		9.9		8.8	
TO15SIM	trans-1,2-Dichloroethene	ppbv	0.17	U	0.17	U	0.16	U
		ug/m3	0.67	U	0.67	U	0.65	U
TO15SIM	trans-1,3-Dichloropropene	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.15	U	0.15	U	0.15	U
TO15SIM	Trichloroethene (TCE)	ppbv	0.034	U	0.034	U	0.033	U
		ug/m3	0.18	U	0.18	U	0.18	U
TO15SIM	Vinyl chloride	ppbv	0.017	U	0.017	U	0.016	U
		ug/m3	0.043	U	0.043	U	0.042	U

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_SC2_011421		IAQ_SC2_011421K		IAQ_TP1_011421	
		Lab Sample ID	2101453A-08A		2101453A-09A		2101453A-06B	
		Dilution Factor	3.26		3.3		1.73	
Analytical Method	Parameter	Unit						
TO15	Acetone	ppbv	620	J	620	J	17	J
		ug/m3	1500	J	1500	J	41	J
TO15	Methylene chloride	ppbv	0.80		0.88		0.68	J
		ug/m3	2.8		3.0		2.3	J
TO15SIM	1,1,1-Trichloroethane (TCA)	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.36	U	0.36	U	0.19	U
TO15SIM	1,1,2,2-Tetrachloroethane	ppbv	0.065	UJ	0.066	UJ	0.035	UJ
		ug/m3	0.45	UJ	0.45	UJ	0.24	UJ
TO15SIM	1,1,2-Trichloroethane	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.36	U	0.36	U	0.19	U
TO15SIM	1,1-Dichloroethane	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.26	U	0.27	U	0.14	U
TO15SIM	1,1-Dichloroethene	ppbv	0.033	U	0.033	U	0.11	
		ug/m3	0.13	U	0.13	U	0.42	
TO15SIM	1,2-Dichlorobenzene	ppbv	0.065	UJ	0.066	UJ	0.035	UJ
		ug/m3	0.39	UJ	0.40	UJ	0.21	UJ
TO15SIM	1,2-Dichloroethane	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.26	U	0.27	U	0.14	U
TO15SIM	1,4-Dichlorobenzene	ppbv	0.065	UJ	0.066	UJ	0.035	UJ
		ug/m3	0.39	UJ	0.40	UJ	0.21	UJ
TO15SIM	Benzene	ppbv	1.4		1.5		1.6	
		ug/m3	4.5		4.8		5.0	
TO15SIM	Carbon tetrachloride	ppbv	0.11	J,N	0.066	U	0.062	
		ug/m3	0.71	J,N	0.42	U	0.39	
TO15SIM	Chlorobenzene	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.30	U	0.30	U	0.16	U
TO15SIM	Chloroform	ppbv	0.065	U	0.066	U	0.061	J,N
		ug/m3	0.32	U	0.32	U	0.30	J,N
TO15SIM	cis-1,2-Dichloroethene	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.26	U	0.26	U	0.14	U
TO15SIM	Ethylbenzene	ppbv	3.0		2.9		1.9	J
		ug/m3	13		13		8.2	J
TO15SIM	Freon 11	ppbv	0.22		0.21		0.23	J
		ug/m3	1.2		1.2		1.3	J
TO15SIM	Freon 113	ppbv	0.067		0.065	J	0.067	
		ug/m3	0.51		0.50	J	0.51	

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_SC2_011421		IAQ_SC2_011421K		IAQ_TP1_011421	
		Lab Sample ID	2101453A-08A		2101453A-09A		2101453A-06B	
		Dilution Factor	3.26		3.3		1.73	
Analytical Method	Parameter	Unit						
TO15SIM	Freon 12	ppbv	0.40		0.40		0.37	J
		ug/m3	2.0		2.0		1.8	J
TO15SIM	m,p-Xylene	ppbv	13		12		9.2	
		ug/m3	57		53		40	
TO15SIM	Methyl Tert-Butyl Ether	ppbv	0.33	U	0.33	U	0.17	U
		ug/m3	1.2	U	1.2	U	0.62	U
TO15SIM	o-Xylene	ppbv	3.8		3.6		3.4	J
		ug/m3	17		16		15	J
TO15SIM	Tetrachloroethene (PCE)	ppbv	0.065	U	0.066	U	0.12	
		ug/m3	0.44	U	0.45	U	0.80	
TO15SIM	Toluene	ppbv	47		57		8.6	
		ug/m3	180		210		33	
TO15SIM	trans-1,2-Dichloroethene	ppbv	0.33	U	0.33	U	0.17	U
		ug/m3	1.3	U	1.3	U	0.68	U
TO15SIM	trans-1,3-Dichloropropene	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.30	U	0.30	U	0.16	U
TO15SIM	Trichloroethene (TCE)	ppbv	0.065	U	0.066	U	0.035	U
		ug/m3	0.35	U	0.35	U	0.18	U
TO15SIM	Vinyl chloride	ppbv	0.033	U	0.033	U	0.017	U
		ug/m3	0.083	U	0.084	U	0.044	U

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_TP3_011421	
		Lab Sample ID	2101453A-05B	
		Dilution Factor	1.63	
Analytical Method	Parameter	Unit		
TO15	Acetone	ppbv	15	J
		ug/m3	36	J
TO15	Methylene chloride	ppbv	1.5	J
		ug/m3	5.1	J
TO15SIM	1,1,1-Trichloroethane (TCA)	ppbv	0.033	U
		ug/m3	0.18	U
TO15SIM	1,1,2,2-Tetrachloroethane	ppbv	0.033	UJ
		ug/m3	0.22	UJ
TO15SIM	1,1,2-Trichloroethane	ppbv	0.033	U
		ug/m3	0.18	U
TO15SIM	1,1-Dichloroethane	ppbv	0.033	U
		ug/m3	0.13	U
TO15SIM	1,1-Dichloroethene	ppbv	0.016	U
		ug/m3	0.065	U
TO15SIM	1,2-Dichlorobenzene	ppbv	0.033	UJ
		ug/m3	0.20	UJ
TO15SIM	1,2-Dichloroethane	ppbv	0.033	U
		ug/m3	0.13	U
TO15SIM	1,4-Dichlorobenzene	ppbv	0.033	UJ
		ug/m3	0.20	UJ
TO15SIM	Benzene	ppbv	2.8	
		ug/m3	9.0	
TO15SIM	Carbon tetrachloride	ppbv	0.062	
		ug/m3	0.39	
TO15SIM	Chlorobenzene	ppbv	0.033	U
		ug/m3	0.15	U
TO15SIM	Chloroform	ppbv	0.063	U
		ug/m3	0.31	U
TO15SIM	cis-1,2-Dichloroethene	ppbv	0.033	U
		ug/m3	0.13	U
TO15SIM	Ethylbenzene	ppbv	4.5	J
		ug/m3	19	J
TO15SIM	Freon 11	ppbv	0.21	J
		ug/m3	1.2	J
TO15SIM	Freon 113	ppbv	0.067	
		ug/m3	0.52	

Data Summary Form for INDOOR AIR Samples
Job No. 2101453A
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_TP3_011421	
		Lab Sample ID	2101453A-05B	
		Dilution Factor	1.63	
Analytical Method	Parameter	Unit		
TO15SIM	Freon 12	ppbv	0.37	J
		ug/m3	1.8	J
TO15SIM	m,p-Xylene	ppbv	21	
		ug/m3	92	
TO15SIM	Methyl Tert-Butyl Ether	ppbv	0.16	U
		ug/m3	0.59	U
TO15SIM	o-Xylene	ppbv	8.5	J
		ug/m3	37	J
TO15SIM	Tetrachloroethene (PCE)	ppbv	0.29	
		ug/m3	2.0	
TO15SIM	Toluene	ppbv	18	
		ug/m3	67	
TO15SIM	trans-1,2-Dichloroethene	ppbv	0.16	U
		ug/m3	0.65	U
TO15SIM	trans-1,3-Dichloropropene	ppbv	0.033	U
		ug/m3	0.15	U
TO15SIM	Trichloroethene (TCE)	ppbv	0.033	U
		ug/m3	0.18	U
TO15SIM	Vinyl chloride	ppbv	0.016	U
		ug/m3	0.042	U

Data Summary Form for AMBIENT AIR Samples
Job No. 2101453B
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/15/2021

		Field Sample ID	IAQ_AA95__011521		IAQ_MR1_011421		IAQ_SC1_011421		IAQ_SC3_011421		IAQ_SUN1_011521		IAQ_SUN2_011521	
		Lab Sample ID	2101453B-15A		2101453B-16B		2101453B-11A		2101453B-12A		2101453B-13A		2101453B-14B	
		Dilution Factor	1.76		1.62		1.61		1.5		1.7		1.69	
Analytical Method	Parameter	Unit												
TO15	Acetone	ppbv	13		16		140	J	130	J	14		13	
		ug/m3	30		38		340	J	310	J	35		31	
TO15	Methylene chloride	ppbv	0.87		0.41		0.88		0.59		0.81		0.82	
		ug/m3	3.0		1.4		3.1		2.1		2.8		2.8	
TO15SIM	1,1,1-Trichloroethane (TCA)	ppbv	0.035	U	0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.19	U	0.18	U	0.18	U	0.16	U	0.18	U	0.18	U
TO15SIM	1,1,2,2-Tetrachloroethane	ppbv	0.035	UJ	0.032	UJ	0.032	UJ	0.030	UJ	0.034	UJ	0.034	UJ
		ug/m3	0.24	UJ	0.22	UJ	0.22	UJ	0.20	UJ	0.23	UJ	0.23	UJ
TO15SIM	1,1,2-Trichloroethane	ppbv	0.035	U	0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.19	U	0.18	U	0.18	U	0.16	U	0.18	U	0.18	U
TO15SIM	1,1-Dichloroethane	ppbv	0.035	U	0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.14	U	0.13	U	0.13	U	0.12	U	0.14	U	0.14	U
TO15SIM	1,1-Dichloroethene	ppbv	0.018	U	0.016	U	0.016	U	0.015	U	0.017	U	0.017	U
		ug/m3	0.070	U	0.064	U	0.064	U	0.059	U	0.067	U	0.067	U
TO15SIM	1,2-Dichlorobenzene	ppbv	0.035	UJ	0.032	UJ	0.032	UJ	0.030	UJ	0.034	UJ	0.034	UJ
		ug/m3	0.21	UJ	0.19	UJ	0.19	UJ	0.18	UJ	0.20	UJ	0.20	UJ
TO15SIM	1,2-Dichloroethane	ppbv	0.10		0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.41		0.13	U	0.13	U	0.12	U	0.14	U	0.14	U
TO15SIM	1,4-Dichlorobenzene	ppbv	0.035	UJ	0.032	UJ	0.032	UJ	0.031	J	0.034	UJ	0.034	UJ
		ug/m3	0.21	UJ	0.19	UJ	0.19	UJ	0.19	J	0.20	UJ	0.20	UJ
TO15SIM	Benzene	ppbv	0.42		4.0		1.0		0.82		0.42		0.41	
		ug/m3	1.3		13		3.2		2.6		1.3		1.3	
TO15SIM	Carbon tetrachloride	ppbv	0.062		0.061		0.061		0.061		0.064		0.062	
		ug/m3	0.39		0.38		0.38		0.38		0.40		0.39	
TO15SIM	Chlorobenzene	ppbv	0.035	U	0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.16	U	0.15	U	0.15	U	0.14	U	0.16	U	0.16	U
TO15SIM	Chloroform	ppbv	0.038	J,N	0.045	J,N	0.040	J,N	0.038	J,N	0.038	J,N	0.033	J,N
		ug/m3	0.18	J,N	0.22	J,N	0.19	J,N	0.19	J,N	0.18	J,N	0.16	J,N
TO15SIM	cis-1,2-Dichloroethene	ppbv	0.035	U	0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.14	U	0.13	U	0.13	U	0.12	U	0.13	U	0.13	U
TO15SIM	Ethylbenzene	ppbv	0.17		0.92		0.84		0.71		0.20		0.18	
		ug/m3	0.73		4.0		3.6		3.1		0.89		0.76	
TO15SIM	Freon 11	ppbv	0.22		0.22		0.22		0.22		0.22		0.22	
		ug/m3	1.2		1.2		1.2		1.2		1.2		1.2	
TO15SIM	Freon 113	ppbv	0.069		0.069		0.066		0.065		0.069		0.067	
		ug/m3	0.53		0.52		0.51		0.50		0.53		0.51	
TO15SIM	Freon 12	ppbv	0.38		0.38		0.41		0.38		0.39		0.38	
		ug/m3	1.9		1.9		2.0		1.8		1.9		1.9	
TO15SIM	m,p-Xylene	ppbv	0.64		4.0		3.9		3.3		0.80		0.69	
		ug/m3	2.8		17		17		14		3.5		3.0	
TO15SIM	Methyl Tert-Butyl Ether	ppbv	0.18	U	0.16	U	0.16	U	0.15	U	0.17	U	0.17	U
		ug/m3	0.63	U	0.58	U	0.58	U	0.54	U	0.61	U	0.61	U
TO15SIM	o-Xylene	ppbv	0.23		1.3		1.2		1.0		0.28		0.25	
		ug/m3	1.0		5.8		5.3		4.5		1.2		1.1	
TO15SIM	Tetrachloroethene (PCE)	ppbv	0.13		0.037		0.039		0.035		0.066		0.074	
		ug/m3	0.90		0.25		0.27		0.24		0.45		0.50	
TO15SIM	Toluene	ppbv	1.7		10		3.9		2.8		1.4		1.2	
		ug/m3	6.4		38		15		10		5.4		4.7	
TO15SIM	trans-1,2-Dichloroethene	ppbv	0.18	U	0.16	U	0.16	U	0.15	U	0.17	U	0.17	U
		ug/m3	0.70	U	0.64	U	0.64	U	0.59	U	0.67	U	0.67	U
TO15SIM	trans-1,3-Dichloropropene	ppbv	0.035	U	0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U	0.15	U
TO15SIM	Trichloroethene (TCE)	ppbv	0.035	U	0.032	U	0.032	U	0.030	U	0.034	U	0.034	U
		ug/m3	0.19	U	0.17	U	0.17	U	0.16	U	0.18	U	0.18	U
TO15SIM	Vinyl chloride	ppbv	0.018	U	0.016	U	0.016	U	0.015	U	0.017	U	0.017	U
		ug/m3	0.045	U	0.041	U	0.041	U	0.038	U	0.043	U	0.043	U

Data Summary Form for INDOOR AIR Samples
Job No. M011501
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/14/2021 - 1/14/2021

		Field Sample ID	IAQ_TP1_011421K2	
		Lab Sample ID	M011501-01	
		Dilution Factor	1	
Analytical Method	Parameter	Unit		
TO15SIM	1,1,1-Trichloroethane (TCA)	ppbv	0.01	U
		ug/m3	0.055	U
TO15SIM	1,1,2,2-Tetrachloroethane	ppbv	0.01	J,N
		ug/m3	0.069	J,N
TO15SIM	1,1,2-Trichloroethane	ppbv	0.01	U
		ug/m3	0.055	U
TO15SIM	1,1-Dichloroethane	ppbv	0.01	U
		ug/m3	0.04	U
TO15SIM	1,1-Dichloroethene	ppbv	0.005	U
		ug/m3	0.02	U
TO15SIM	1,2-Dichlorobenzene	ppbv	0.01	U
		ug/m3	0.06	U
TO15SIM	1,2-Dichloroethane	ppbv	0.01	U
		ug/m3	0.04	U
TO15SIM	1,4-Dichlorobenzene	ppbv	0.047	
		ug/m3	0.28	
TO15SIM	Acetone	ppbv	6.9	J
		ug/m3	16	J
TO15SIM	Benzene	ppbv	1.4	
		ug/m3	4.6	
TO15SIM	Carbon tetrachloride	ppbv	0.064	
		ug/m3	0.4	
TO15SIM	Chlorobenzene	ppbv	0.01	U
		ug/m3	0.046	U
TO15SIM	Chloroform	ppbv	0.053	
		ug/m3	0.26	
TO15SIM	cis-1,2-Dichloroethene	ppbv	0.01	U
		ug/m3	0.04	U
TO15SIM	Ethylbenzene	ppbv	2.4	J
		ug/m3	10	J
TO15SIM	Freon 11	ppbv	0.18	J
		ug/m3	1	J
TO15SIM	Freon 113	ppbv	0.058	
		ug/m3	0.44	
TO15SIM	Freon 12	ppbv	0.01	UJ
		ug/m3	0.049	UJ
TO15SIM	m,p-Xylene	ppbv	11	
		ug/m3	46	
TO15SIM	Methyl Tert-Butyl Ether	ppbv	0.01	U
		ug/m3	0.036	U
TO15SIM	Methylene chloride	ppbv	0.47	J
		ug/m3	1.6	J
TO15SIM	o-Xylene	ppbv	4.2	J
		ug/m3	18	J
TO15SIM	Tetrachloroethene (PCE)	ppbv	0.099	
		ug/m3	0.67	
TO15SIM	Toluene	ppbv	8.4	
		ug/m3	32	
TO15SIM	trans-1,2-Dichloroethene	ppbv	0.01	U
		ug/m3	0.04	U
TO15SIM	trans-1,3-Dichloropropene	ppbv	0.02	U
		ug/m3	0.091	U
TO15SIM	Trichloroethene (TCE)	ppbv	0.01	U
		ug/m3	0.054	U
TO15SIM	Vinyl chloride	ppbv	0.005	U
		ug/m3	0.013	U

DATA VALIDATION

FOR

SOIL VAPOR EXTRACTION SYSTEM
OMEGA CHEMICAL SITE
WHITTIER, CALIFORNIA

ORGANIC ANALYSIS DATA
Volatiles in Air
Laboratory Job Nos.

2101535
2102281

Analyses Performed
By:

Eurofins Air Toxics
Folsom, CA

For:

de maximis, inc.
1322 Scott Street
Suite 104
San Diego, CA 92106

Data Validation By:

ddms, inc.
St. Paul, Minnesota 55108

March 22, 2021

1547-3139-1/ekd/das
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EXECUTIVE SUMMARY

Validation of the volatile organics analysis data prepared by Eurofins Air Toxics for 25 SVE air samples from the Omega Chemical Site has been completed by de maximis Data Management Solutions, Inc. (ddms). Stage 4 validation was performed on three samples (**bolded below**), which represent 10% of the total number of samples received and analyzed by Eurofins Air Toxics. A Stage 2B validation was performed on the remaining samples. The data were reported under Laboratory Job Nos. 2101535 and 2102281. The following samples were reported.

SDG 2101535

OC_SVE_VMP-24_011821	OC_SVE_VMP-94-24_011821
OC_SVE_VMP-94-60_011821	**OC_SVE_VMP-43-24_011821**
OC_SVE_VMP-95-60_011821	OC_SVE_VMP-31-24_011821
OC_SVE_VMP-32-24_011821	OC_SVE_VMP-32-60_011821
OC_SVE_VMP-12_011921	OC_SVE_VMP-11_011920
OC_SVE_VMP-92-70_011921	**OC_SVE_VMP-15_011921**
OC_SVE_VMP-15_011921K	OC_SVE_VMP-17_011921
OC_SVE_VMP-17_011921K	OC_SVE_VMP-16_011921
OC_SVE_VMP-27_011921	OC_SVE_VMP-22_011921
OC_SVE_VMP-5_011921	OC_SVE_VMP-18_012121
OC_SVE_VMP-18_012121K	OC_SVE_VMP-26_012121
OC_SVE_VMP-21_012121	OC_SVE_VMP-20_012121

SDG 2102281

OC_SVE_VMP-93-60_020921

Sample OC-SVE_VMP-93-60_011921 and equipment blank OC_SVE_VMP-20_012121N were also submitted with the samples in SDG 2101535. The analyses of these samples were put on hold due to issues with canister pressure readings on receipt at the laboratory. Location VMP-93-60 was resampled on February 9, 2021. Results for the February sample (OC_SVE_VMP-93-60_020921) are reported in SDG 2102281, as indicated above. The equipment blank was not resampled.

Based on the validation effort, sample results were qualified as follows:

- The result for trichloroethene in OC_SVE_VMP-24_011821 was qualified as tentatively present and estimated (NJ) and results for all non-detects in this sample were qualified as estimated (UJ) due to detection of 1,1-difluoroethane (1,1-DFA) at a concentration less than ten times the reporting limit (RL).

- The results for acetone, cis-1,2-dichloroethene, and trichloroethene in all samples except OC_SVE_VMP_20_012121N and OC_SVE_VMP-93-60_020921 were qualified as estimated (J, UJ) due to imprecision between field duplicate samples.

- Where target compounds were detected, the results for total non-methane organic carbon (TNMOC) in all samples were qualified as estimated (J+) because carbon dioxide, surrogate and internal standard compound peak area counts were inappropriately included in the calculation of the TNMOC result.

All other results were determined to be valid as reported.

Documentation issues are discussed in Section II.

This validation report should be considered an integral part of the data package. Results, as qualified by the validator and recommended for use, supersede the sample results reported by the laboratory in the originally provided laboratory analysis reports (Form 1s).

INTRODUCTION

Analyses were performed in accordance with USEPA TO-15. The laboratory provided Level IV data packages for validation.

The data validation and review were performed, to the extent possible, in conformance with the "Omega Chemical Superfund Site Sampling and Analysis Plan for Remedial Action/Remedial Design October 4, 2010" and ddms' Standard Operating Procedure: 'Validation of Volatile Organics in Air Samples by Method TO-15 and TO-17 (ECS-SOP-001)'. Professional judgment was applied as necessary and appropriate.

The data validation process is intended to evaluate data on a technical basis rather than a contract compliance basis for chemical analyses conducted under the referenced methods. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to sufficient quality review prior to submission for validation.

During the validation process, laboratory data are verified against all available supporting documentation. Based on the findings of the evaluation, qualifier codes may be added by the data validator. Validated results are, therefore, either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Final validated results are annotated with the following codes as defined by the USEPA National Functional Guidelines:

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit may be higher than reported.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

These codes are recorded on the Data Summary Forms contained in Attachment A to indicate qualifications placed on the results based on the data review.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is unusable. In other words, due to significant quality control problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Rejected values should not appear on data tables because they cannot be relied upon, even as a last resort. Second, no concentration is guaranteed to be accurate even if all associated quality control is acceptable. Strict quality control conformance serves only to increase confidence in reported results; any analytical result will always contain some error.

The data user is also cautioned that the validation effort is based on the raw data printouts as provided by the laboratory. Software manipulation cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

I. Holding Times, Preservation and Sample Integrity

Copies of the applicable chain of custody (COC) records were included in the data packages documenting sample collection dates of January 18, 19, and 21, and February 9, 2021. The samples were received at Eurofins Air Toxics on January 25 and February 11, 2021. All samples were analyzed within the method specified hold time. See discussion below regarding sample integrity.

II. Documentation

The following documentation issues were observed during the validation effort:

- Analyses of two of the samples listed on the chain of custody records (OC_SVE_VMP-93-60_011921 and OC_SVE_VMP-20_012121N) were placed on hold, this situation is appropriately noted in the data package, and no results for these samples are reported in the data package. Results for these two samples were, however, reported in the electronic data deliverable (EDD). The results have been marked “No” in the “reportable_y/n” column of the EDD since they are not supported by the data package.

- The transfer of sample custody from the sampler to FedEx is not documented on the COCs.

- Documentation for the TNMOC calculations was not included in the data package for SDG 2101535. The validator requested this information from the laboratory, and it was provided via email.

The table below documents the Quality Control (QC) elements reviewed. Only those QC excursions resulting in qualified data are discussed in the remainder of this report. QC excursions having no impact to sample results are not discussed. Where a result was qualified J+ or J- and J, the J qualifier takes precedence. Where a result was qualified biased high and low for differing QC excursions, the final qualifier is J, with an indeterminate bias. An R qualifier (rejected) takes precedence over any other qualifier.

III. VOCs

Review Element	Acceptable?
Sample Integrity	N
GC/MS Instrument Tunes	Y
Calibration (Initial Calibration [IC], IC Verification [ICV], Continuing Calibration [CC])	Y
Internal Standard Responses	Y
Laboratory and Field Blanks	Y

Review Element	Acceptable?
Surrogates	Y
Laboratory Control Samples (LCS)/ LCS Duplicates (LCSD)	Y
Field Duplicates	N
Matrix Spike (MS)/Matrix Spike Duplicate (MSD)	n/a
Compound Identification	Y
Compound Quantitation	N
Overall Evaluation	N

n/a-not applicable

A. Sample Integrity

According to the documentation provided, all samples submitted were subjected to leak testing during the sample collection process, using 1,1-difluoroethane (1,1-DFA) as a tracer compound. The following table summarizes the concentrations of 1,1-DFA, where detected, in the samples.

Sample	1,1-DFA concentration (ppbv)
OC_SVE_VMP-24_011821	6.3

Guidance on the sampling process[1] recommends that concentrations of the tracer compound that exceed ten times the target compound RLs should be considered significant leaks in the sampling apparatus. The concentration of 1,1-DFA in OC_SVE_VMP-24_011821 was less than ten times the RL and represented a leak that is not considered significant. Results for all non-detects were qualified as estimated (UJ), based on the evidence of a minor leak in the sampling collection system. Results for detected compounds <10X the RL were qualified as tentatively present and estimated (NJ), and detected compounds >10X the RL were not qualified because the effect of the low level leak is insignificant for the high concentrations detected. Affected sample results are detailed below:

Sample	Analytes <10xRL	Analytes >10xRL	Qualifier Applied
OC_SVE_VMP-24_011821	Trichloroethene		NJ
		Tetrachloroethene	none

B. Duplicate Samples

Three sets of field duplicates were submitted with the samples:

1 Advisory Active Soil Gas Investigations, California Protection Agency Department of Toxic Substances Control Los Angeles Regional Water Quality Control Board San Francisco Regional Water Quality Control Board, July 2015.

- OC_SVE_VMP-15_011921 / OC_SVE_VMP-15_011921K
- OC_SVE_VMP-17_011921 / OC_SVE_VMP-17_011921K
- OC_SVE_VMP-18_012121 / OC_SVE_VMP-18_012121K

Precision between the paired samples was acceptable (<20 RPD for compounds detected at concentrations >5x the RL or difference <2x the RL for analytes detected at concentrations less than 5x the RL), except as summarized below.

Compound	Conc. (ppbv)	Conc. (ppbv)	RPD	Affected Samples	Qualifiers Applied
Field Duplicate: OC_SVE_VMP-15_011921 / OC_SVE_VMP-15_011921K				OC_SVE_VMP-24_011821 OC_SVE_VMP-94-24_011821 OC_SVE_VMP-94-60_011821 OC_SVE_VMP-43-24_011821 OC_SVE_VMP-95-60_011821 OC_SVE_VMP-31-24_011821 OC_SVE_VMP-32-24_011821 OC_SVE_VMP-32-60_011821 OC_SVE_VMP-12_01121 OC_SVE_VMP-11_011920 OC_SVE_VMP-92-70_011921 OC_SVE_VMP-93-60_011921 OC_SVE_VMP-15_011921 OC_SVE_VMP-15_011921K OC_SVE_VMP-17_011921 OC_SVE_VMP-17_011921K OC_SVE_VMP-16_011921 OC_SVE_VMP-27_011921 OC_SVE_VMP-22_011921 OC_SVE_VMP-5_011921 OC_SVE_VMP-18_012121 OC_SVE_VMP-18_012121K OC_SVE_VMP-26_012121 OC_SVE_VMP-21_012121 OC_SVE_VMP-20_012121	J, UJ
Acetone	ND	24	nc		
cis-1,2-Dichloroethene	ND	11	nc		
Trichloroethene	ND	5.0	nc		
Field Duplicate OC_SVE_VMP-18_122121 / OC_SVE_VMP-18_122121K					
Acetone	13	ND	nc		

nc = not calculated

The results for acetone, cis-1,2-dichloroethene, and trichloroethene in the following samples were qualified as estimated (J, UJ) due to imprecision at low concentrations between field duplicate samples:

OC_SVE_VMP-24_011821
OC_SVE_VMP-94-24_011821
OC_SVE_VMP-94-60_011821
OC_SVE_VMP-43-24_011821
OC_SVE_VMP-95-60_011821
OC_SVE_VMP-31-24_011821
OC_SVE_VMP-32-24_011821
OC_SVE_VMP-32-60_011821

OC_SVE_VMP-12_011921	OC_SVE_VMP-11_011920
OC_SVE_VMP-92-70_011921	OC_SVE_VMP-15_011921
OC_SVE_VMP-15_011921K	OC_SVE_VMP-17_011921
OC_SVE_VMP-17_011921K	OC_SVE_VMP-16_011921
OC_SVE_VMP-27_011921	OC_SVE_VMP-22_011921
OC_SVE_VMP-5_011921	OC_SVE_VMP-18_012121
OC_SVE_VMP-18_012121K	OC_SVE_VMP-26_012121
OC_SVE_VMP-21_012121	OC_SVE_VMP-20_012121

C. Compound Quantitation

A result for TNMOC (total non-methane organic carbon) was reported for each sample. The total of all peak area counts in a sample is one of the variables included in the equation used to calculate the TNMOC result. The laboratory included area counts for carbon dioxide and surrogate and internal standard compound peaks in the total area count for each sample. Since carbon dioxide is an instrument artifact and the surrogates and internal standards are added by the laboratory, they are not true sample components, and including the surrogate and internal standard compound peak area counts overestimates the total area count. Results for TNMOC in all samples where concentrations were reported were qualified as estimated (J+) because these peaks were inappropriately included in the calculation. The validator does not recommend the use of the TNMOC results as these are not reliable values.

ddms

ATTACHMENT A

DATA SUMMARY FORMS
Volatiles in Air
Laboratory Job Nos.
2101535
2102281

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-11_011921		OC_SVE_VMP-12_011921		OC_SVE_VMP-15_011921	
		Lab Sample ID	2101535-10A		2101535-09A		2101535-13A	
		Dilution Factor	2.46		2.47		2.33	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.7	U	6.7	U	6.4	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	8.4	U	8.5	U	8.0	U
TO15	1,1,2-Trichloroethane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.7	U	6.7	U	6.4	U
TO15	1,1-Dichloroethane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.0	U	5.0	U	4.7	U
TO15	1,1-Dichloroethene	ppbv	5.2		1.2	U	1.2	U
		ug/m3	21		4.9	U	4.6	U
TO15	1,1-Difluoroethane	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	13	U	13	U	12	U
TO15	1,2,4-Trichlorobenzene	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	36	U	37	U	34	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.0	U	6.1	U	5.7	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	9.4	U	9.5	U	9.0	U
TO15	1,2-Dichlorobenzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	7.4	U	7.4	U	7.0	U
TO15	1,2-Dichloroethane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.0	U	5.0	U	4.7	U
TO15	1,2-Dichloropropane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.7	U	5.7	U	5.4	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	8.6	U	8.6	U	8.1	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.0	U	6.1	U	5.7	U
TO15	1,3-Dichlorobenzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	7.4	U	7.4	U	7.0	U
TO15	1,4-Dichlorobenzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	7.4	U	7.4	U	7.0	U
TO15	1,4-Dioxane	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	18	U	18	U	17	U
TO15	2-Hexanone	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	20	U	20	U	19	U
TO15	3-Chloropropene	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	15	U	15	U	14	U
TO15	4-Ethyltoluene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.0	U	6.1	U	5.7	U
TO15	Acetone	ppbv	12	UJ	12	UJ	12	UJ
		ug/m3	29	UJ	29	UJ	28	UJ
TO15	Benzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	3.9	U	3.9	U	3.7	U
TO15	Benzyl chloride	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.4	U	6.4	U	6.0	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-11_011921		OC_SVE_VMP-12_011921		OC_SVE_VMP-15_011921	
		Lab Sample ID	2101535-10A		2101535-09A		2101535-13A	
		Dilution Factor	2.46		2.47		2.33	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	8.2	U	8.3	U	7.8	U
TO15	Bromoform	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	13	U	13	U	12	U
TO15	Bromomethane	ppbv	12	U	12	U	12	U
		ug/m3	48	U	48	U	45	U
TO15	Carbon disulfide	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	15	U	15	U	14	U
TO15	Carbon tetrachloride	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	7.7	U	7.8	U	7.3	U
TO15	Chlorobenzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.7	U	5.7	U	5.4	U
TO15	Chloroethane	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	13	U	13	U	12	U
TO15	Chloroform	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.0	U	6.0	U	5.7	U
TO15	Chloromethane	ppbv	12	U	12	U	12	U
		ug/m3	25	U	26	U	24	U
TO15	cis-1,2-Dichloroethene	ppbv	1.2	UJ	1.2	UJ	1.2	UJ
		ug/m3	4.9	UJ	4.9	UJ	4.6	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.6	U	5.6	U	5.3	U
TO15	Dibromochloromethane	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	10	U	10	U	9.9	U
TO15	Ethylbenzene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.3	U	5.4	U	5.0	U
TO15	Freon 11	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.9	U	6.9	U	6.5	U
TO15	Freon 113	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	9.4	U	9.5	U	8.9	U
TO15	Freon 12	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	6.1	U	6.1	U	5.8	U
TO15	Hexachlorobutadiene	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	52	U	53	U	50	U
TO15	Hexane (N-Hexane)	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	4.3	U	4.4	U	4.1	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	12	U	12	U	11	U
TO15	m,p-Xylene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.3	U	5.4	U	5.0	U
TO15	Methyl ethyl ketone	ppbv	4.9	U	5.3		4.7	U
		ug/m3	14	U	16		14	U
TO15	Methyl isobutyl ketone	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.0	U	5.0	U	4.8	U
TO15	Methyl Tert-Butyl Ether	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	18	U	18	U	17	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-11_011921		OC_SVE_VMP-12_011921		OC_SVE_VMP-15_011921	
		Lab Sample ID	2101535-10A		2101535-09A		2101535-13A	
		Dilution Factor	2.46		2.47		2.33	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	12	U	12	U	12	U
		ug/m3	43	U	43	U	40	U
TO15	o-Xylene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.3	U	5.4	U	5.0	U
TO15	Styrene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.2	U	5.3	U	5.0	U
TO15	Tetrachloroethene (PCE)	ppbv	95		1.2	U	5.6	
		ug/m3	640		8.4	U	38	
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	160	J+	75	J+	68	J+
		ug/m3	650	J+	310	J+	280	J+
TO15	Toluene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	4.6	U	4.6	U	4.4	U
TO15	trans-1,2-Dichloroethene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	4.9	U	4.9	U	4.6	U
TO15	trans-1,3-Dichloropropene	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	5.6	U	5.6	U	5.3	U
TO15	Trichloroethene (TCE)	ppbv	6.4	J	1.2	UJ	1.2	UJ
		ug/m3	34	J	6.6	UJ	6.3	UJ
TO15	Vinyl acetate	ppbv	4.9	U	4.9	U	4.7	U
		ug/m3	17	U	17	U	16	U
TO15	Vinyl chloride	ppbv	1.2	U	1.2	U	1.2	U
		ug/m3	3.1	U	3.2	U	3.0	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-15_011921K		OC_SVE_VMP-16_011921		OC_SVE_VMP-17_011921	
		Lab Sample ID	2101535-14A		2101535-17A		2101535-15A	
		Dilution Factor	2.34		2.42		2.56	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	6.4	U	6.6	U	7.0	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	8.0	U	8.3	U	8.8	U
TO15	1,1,2-Trichloroethane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	6.4	U	6.6	U	7.0	U
TO15	1,1-Dichloroethane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	4.7	U	4.9	U	5.2	U
TO15	1,1-Dichloroethene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	4.6	U	4.8	U	5.1	U
TO15	1,1-Difluoroethane	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	13	U	13	U	14	U
TO15	1,2,4-Trichlorobenzene	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	35	U	36	U	38	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.8	U	5.9	U	6.3	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	9.0	U	9.3	U	9.8	U
TO15	1,2-Dichlorobenzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	7.0	U	7.3	U	7.7	U
TO15	1,2-Dichloroethane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	4.7	U	4.9	U	5.2	U
TO15	1,2-Dichloropropane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.4	U	5.6	U	5.9	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	8.2	U	8.4	U	8.9	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.8	U	5.9	U	6.3	U
TO15	1,3-Dichlorobenzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	7.0	U	7.3	U	7.7	U
TO15	1,4-Dichlorobenzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	7.0	U	7.3	U	7.7	U
TO15	1,4-Dioxane	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	17	U	17	U	18	U
TO15	2-Hexanone	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	19	U	20	U	21	U
TO15	3-Chloropropene	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	15	U	15	U	16	U
TO15	4-Ethyltoluene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.8	U	5.9	U	6.3	U
TO15	Acetone	ppbv	24	J	12	UJ	13	UJ
		ug/m3	57	J	29	UJ	30	UJ
TO15	Benzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	3.7	U	3.9	U	4.1	U
TO15	Benzyl chloride	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	6.0	U	6.3	U	6.6	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-15_011921K		OC_SVE_VMP-16_011921		OC_SVE_VMP-17_011921	
		Lab Sample ID	2101535-14A		2101535-17A		2101535-15A	
		Dilution Factor	2.34		2.42		2.56	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	7.8	U	8.1	U	8.6	U
TO15	Bromoform	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	12	U	12	U	13	U
TO15	Bromomethane	ppbv	12	U	12	U	13	U
		ug/m3	45	U	47	U	50	U
TO15	Carbon disulfide	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	14	U	15	U	16	U
TO15	Carbon tetrachloride	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	7.4	U	7.6	U	8.0	U
TO15	Chlorobenzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.4	U	5.6	U	5.9	U
TO15	Chloroethane	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	12	U	13	U	14	U
TO15	Chloroform	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.7	U	5.9	U	6.2	U
TO15	Chloromethane	ppbv	12	U	12	U	13	U
		ug/m3	24	U	25	U	26	U
TO15	cis-1,2-Dichloroethene	ppbv	11	J	1.2	UJ	1.3	UJ
		ug/m3	45	J	4.8	UJ	5.1	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.3	U	5.5	U	5.8	U
TO15	Dibromochloromethane	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	10	U	10	U	11	U
TO15	Ethylbenzene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.1	U	5.2	U	5.6	U
TO15	Freon 11	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	6.6	U	6.8	U	7.2	U
TO15	Freon 113	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	9.0	U	9.3	U	9.8	U
TO15	Freon 12	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.8	U	6.0	U	6.3	U
TO15	Hexachlorobutadiene	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	50	U	52	U	55	U
TO15	Hexane (N-Hexane)	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	4.1	U	4.3	U	4.5	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	12	U	12	U	12	U
TO15	m,p-Xylene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.1	U	5.2	U	5.6	U
TO15	Methyl ethyl ketone	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	14	U	14	U	15	U
TO15	Methyl isobutyl ketone	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	4.8	U	5.0	U	5.2	U
TO15	Methyl Tert-Butyl Ether	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	17	U	17	U	18	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-15_011921K		OC_SVE_VMP-16_011921		OC_SVE_VMP-17_011921	
		Lab Sample ID	2101535-14A		2101535-17A		2101535-15A	
		Dilution Factor	2.34		2.42		2.56	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	12	U	12	U	13	U
		ug/m3	41	U	42	U	44	U
TO15	o-Xylene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.1	U	5.2	U	5.6	U
TO15	Styrene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.0	U	5.2	U	5.4	U
TO15	Tetrachloroethene (PCE)	ppbv	5.7		1.2		1.3	U
		ug/m3	39		8.3		8.7	U
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	76	J+	24	U	26	U
		ug/m3	310	J+	99	U	100	U
TO15	Toluene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	4.4	U	4.6	U	4.8	U
TO15	trans-1,2-Dichloroethene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	4.6	U	4.8	U	5.1	U
TO15	trans-1,3-Dichloropropene	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	5.3	U	5.5	U	5.8	U
TO15	Trichloroethene (TCE)	ppbv	5.0	J	1.2	UJ	1.3	UJ
		ug/m3	27	J	6.5	UJ	6.9	UJ
TO15	Vinyl acetate	ppbv	4.7	U	4.8	U	5.1	U
		ug/m3	16	U	17	U	18	U
TO15	Vinyl chloride	ppbv	1.2	U	1.2	U	1.3	U
		ug/m3	3.0	U	3.1	U	3.3	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-17_011921K		OC_SVE_VMP-18_012121		OC_SVE_VMP-18_012121K	
		Lab Sample ID	2101535-16A		2101535-21A		2101535-22A	
		Dilution Factor	2.39		2.28		2.4	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	6.5	U	6.2	U	6.5	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	8.2	U	7.8	U	8.2	U
TO15	1,1,2-Trichloroethane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	6.5	U	6.2	U	6.5	U
TO15	1,1-Dichloroethane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	4.8	U	4.6	U	4.8	U
TO15	1,1-Dichloroethene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	4.7	U	4.5	U	4.8	U
TO15	1,1-Difluoroethane	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	13	U	12	U	13	U
TO15	1,2,4-Trichlorobenzene	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	35	U	34	U	36	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.9	U	5.6	U	5.9	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	9.2	U	8.8	U	9.2	U
TO15	1,2-Dichlorobenzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	7.2	U	6.8	U	7.2	U
TO15	1,2-Dichloroethane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	4.8	U	4.6	U	4.8	U
TO15	1,2-Dichloropropane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.5	U	5.3	U	5.5	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	8.4	U	8.0	U	8.4	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.9	U	5.6	U	5.9	U
TO15	1,3-Dichlorobenzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	7.2	U	6.8	U	7.2	U
TO15	1,4-Dichlorobenzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	7.2	U	6.8	U	7.2	U
TO15	1,4-Dioxane	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	17	U	16	U	17	U
TO15	2-Hexanone	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	20	U	19	U	20	U
TO15	3-Chloropropene	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	15	U	14	U	15	U
TO15	4-Ethyltoluene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.9	U	5.6	U	5.9	U
TO15	Acetone	ppbv	12	UJ	13	J	12	UJ
		ug/m3	28	UJ	30	J	28	UJ
TO15	Benzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	3.8	U	3.6	U	3.8	U
TO15	Benzyl chloride	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	6.2	U	5.9	U	6.2	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-17_011921K		OC_SVE_VMP-18_012121		OC_SVE_VMP-18_012121K	
		Lab Sample ID	2101535-16A		2101535-21A		2101535-22A	
		Dilution Factor	2.39		2.28		2.4	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	8.0	U	7.6	U	8.0	U
TO15	Bromoform	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	12	U	12	U	12	U
TO15	Bromomethane	ppbv	12	U	11	U	12	U
		ug/m3	46	U	44	U	47	U
TO15	Carbon disulfide	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	15	U	14	U	15	U
TO15	Carbon tetrachloride	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	7.5	U	7.2	U	7.6	U
TO15	Chlorobenzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.5	U	5.2	U	5.5	U
TO15	Chloroethane	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	13	U	12	U	13	U
TO15	Chloroform	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.8	U	5.6	U	5.8	U
TO15	Chloromethane	ppbv	12	U	11	U	12	U
		ug/m3	25	U	24	U	25	U
TO15	cis-1,2-Dichloroethene	ppbv	1.2	UJ	1.1	UJ	1.2	UJ
		ug/m3	4.7	UJ	4.5	UJ	4.8	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.4	U	5.2	U	5.4	U
TO15	Dibromochloromethane	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	10	U	9.7	U	10	U
TO15	Ethylbenzene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.2	U	4.9	U	5.2	U
TO15	Freon 11	ppbv	1.2	U	2.4		2.4	
		ug/m3	6.7	U	14		14	
TO15	Freon 113	ppbv	1.2	U	2.5		2.7	
		ug/m3	9.2	U	19		20	
TO15	Freon 12	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.9	U	5.6	U	5.9	U
TO15	Hexachlorobutadiene	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	51	U	49	U	51	U
TO15	Hexane (N-Hexane)	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	4.2	U	4.0	U	4.2	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	12	U	11	U	12	U
TO15	m,p-Xylene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.2	U	5.0	U	5.2	U
TO15	Methyl ethyl ketone	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	14	U	13	U	14	U
TO15	Methyl isobutyl ketone	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	4.9	U	4.7	U	4.9	U
TO15	Methyl Tert-Butyl Ether	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	17	U	16	U	17	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-17_011921K		OC_SVE_VMP-18_012121		OC_SVE_VMP-18_012121K	
		Lab Sample ID	2101535-16A		2101535-21A		2101535-22A	
		Dilution Factor	2.39		2.28		2.4	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	12	U	11	U	12	U
		ug/m3	42	U	40	U	42	U
TO15	o-Xylene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.2	U	5.0	U	5.2	U
TO15	Styrene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.1	U	4.8	U	5.1	U
TO15	Tetrachloroethene (PCE)	ppbv	1.2	U	55		56	
		ug/m3	8.1	U	380		380	
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	24	U	74	J+	63	J+
		ug/m3	98	U	300	J+	260	J+
TO15	Toluene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	4.5	U	4.3	U	4.5	U
TO15	trans-1,2-Dichloroethene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	4.7	U	4.5	U	4.8	U
TO15	trans-1,3-Dichloropropene	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	5.4	U	5.2	U	5.4	U
TO15	Trichloroethene (TCE)	ppbv	1.2	UJ	9.3	J	9.2	J
		ug/m3	6.4	UJ	50	J	49	J
TO15	Vinyl acetate	ppbv	4.8	U	4.6	U	4.8	U
		ug/m3	17	U	16	U	17	U
TO15	Vinyl chloride	ppbv	1.2	U	1.1	U	1.2	U
		ug/m3	3.0	U	2.9	U	3.1	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-20_012121		OC_SVE_VMP-21_012121		OC_SVE_VMP-22_011921	
		Lab Sample ID	2101535-25A		2101535-24A		2101535-19A	
		Dilution Factor	2.38		2.54		2.45	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	6.5	U	6.9	U	6.7	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	8.2	U	8.7	U	8.4	U
TO15	1,1,2-Trichloroethane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	6.5	U	6.9	U	6.7	U
TO15	1,1-Dichloroethane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	4.8	U	5.1	U	5.0	U
TO15	1,1-Dichloroethene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	4.7	U	5.0	U	4.8	U
TO15	1,1-Difluoroethane	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	13	U	14	U	13	U
TO15	1,2,4-Trichlorobenzene	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	35	U	38	U	36	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.8	U	6.2	U	6.0	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	9.1	U	9.8	U	9.4	U
TO15	1,2-Dichlorobenzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	7.2	U	7.6	U	7.4	U
TO15	1,2-Dichloroethane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	4.8	U	5.1	U	5.0	U
TO15	1,2-Dichloropropane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.5	U	5.9	U	5.7	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	8.3	U	8.9	U	8.6	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.8	U	6.2	U	6.0	U
TO15	1,3-Dichlorobenzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	7.2	U	7.6	U	7.4	U
TO15	1,4-Dichlorobenzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	7.2	U	7.6	U	7.4	U
TO15	1,4-Dioxane	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	17	U	18	U	18	U
TO15	2-Hexanone	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	19	U	21	U	20	U
TO15	3-Chloropropene	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	15	U	16	U	15	U
TO15	4-Ethyltoluene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.8	U	6.2	U	6.0	U
TO15	Acetone	ppbv	12	UJ	14	J	12	UJ
		ug/m3	28	UJ	32	J	29	UJ
TO15	Benzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	3.8	U	4.0	U	3.9	U
TO15	Benzyl chloride	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	6.2	U	6.6	U	6.3	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-20_012121		OC_SVE_VMP-21_012121		OC_SVE_VMP-22_011921	
		Lab Sample ID	2101535-25A		2101535-24A		2101535-19A	
		Dilution Factor	2.38		2.54		2.45	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	8.0	U	8.5	U	8.2	U
TO15	Bromoform	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	12	U	13	U	13	U
TO15	Bromomethane	ppbv	12	U	13	U	12	U
		ug/m3	46	U	49	U	48	U
TO15	Carbon disulfide	ppbv	4.8	U	5.1	U	14	
		ug/m3	15	U	16	U	44	
TO15	Carbon tetrachloride	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	7.5	U	8.0	U	7.7	U
TO15	Chlorobenzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.5	U	5.8	U	5.6	U
TO15	Chloroethane	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	12	U	13	U	13	U
TO15	Chloroform	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.8	U	6.2	U	6.0	U
TO15	Chloromethane	ppbv	12	U	13	U	12	U
		ug/m3	24	U	26	U	25	U
TO15	cis-1,2-Dichloroethene	ppbv	1.2	UJ	1.3	UJ	1.2	UJ
		ug/m3	4.7	UJ	5.0	UJ	4.8	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.4	U	5.8	U	5.6	U
TO15	Dibromochloromethane	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	10	U	11	U	10	U
TO15	Ethylbenzene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.2	U	5.5	U	5.3	U
TO15	Freon 11	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	6.7	U	7.1	U	6.9	U
TO15	Freon 113	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	9.1	U	9.7	U	9.4	U
TO15	Freon 12	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.9	U	6.3	U	6.0	U
TO15	Hexachlorobutadiene	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	51	U	54	U	52	U
TO15	Hexane (N-Hexane)	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	4.2	U	4.5	U	4.3	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	12	U	12	U	12	U
TO15	m,p-Xylene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.2	U	5.5	U	5.3	U
TO15	Methyl ethyl ketone	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	14	U	15	U	14	U
TO15	Methyl isobutyl ketone	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	4.9	U	5.2	U	5.0	U
TO15	Methyl Tert-Butyl Ether	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	17	U	18	U	18	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-20_012121		OC_SVE_VMP-21_012121		OC_SVE_VMP-22_011921	
		Lab Sample ID	2101535-25A		2101535-24A		2101535-19A	
		Dilution Factor	2.38		2.54		2.45	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	12	U	13	U	12	U
		ug/m3	41	U	44	U	42	U
TO15	o-Xylene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.2	U	5.5	U	5.3	U
TO15	Styrene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.1	U	5.4	U	5.2	U
TO15	Tetrachloroethene (PCE)	ppbv	1.2	U	12		6.4	
		ug/m3	8.1	U	82		43	
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	24	U	27	J+	120	J+
		ug/m3	97	U	110	J+	490	J+
TO15	Toluene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	4.5	U	4.8	U	4.6	U
TO15	trans-1,2-Dichloroethene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	4.7	U	5.0	U	4.8	U
TO15	trans-1,3-Dichloropropene	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	5.4	U	5.8	U	5.6	U
TO15	Trichloroethene (TCE)	ppbv	1.2	UJ	2.0	J	1.2	UJ
		ug/m3	6.4	UJ	10	J	6.6	UJ
TO15	Vinyl acetate	ppbv	4.8	U	5.1	U	4.9	U
		ug/m3	17	U	18	U	17	U
TO15	Vinyl chloride	ppbv	1.2	U	1.3	U	1.2	U
		ug/m3	3.0	U	3.2	U	3.1	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-24_011821		OC_SVE_VMP-26_012121		OC_SVE_VMP-27_011921	
		Lab Sample ID	2101535-01A		2101535-23A		2101535-18A	
		Dilution Factor	2.51		2.45		2.37	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.8	UJ	6.7	U	6.5	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	8.6	UJ	8.4	U	8.1	U
TO15	1,1,2-Trichloroethane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.8	UJ	6.7	U	6.5	U
TO15	1,1-Dichloroethane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.1	UJ	5.0	U	4.8	U
TO15	1,1-Dichloroethene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.0	UJ	4.8	U	4.7	U
TO15	1,1-Difluoroethane	ppbv	6.3		4.9	U	4.7	U
		ug/m3	17		13	U	13	U
TO15	1,2,4-Trichlorobenzene	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	37	UJ	36	U	35	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.2	UJ	6.0	U	5.8	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	9.6	UJ	9.4	U	9.1	U
TO15	1,2-Dichlorobenzene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	7.5	UJ	7.4	U	7.1	U
TO15	1,2-Dichloroethane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.1	UJ	5.0	U	4.8	U
TO15	1,2-Dichloropropane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.8	UJ	5.7	U	5.5	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	8.8	UJ	8.6	U	8.3	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.2	UJ	6.0	U	5.8	U
TO15	1,3-Dichlorobenzene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	7.5	UJ	7.4	U	7.1	U
TO15	1,4-Dichlorobenzene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	7.5	UJ	7.4	U	7.1	U
TO15	1,4-Dioxane	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	18	UJ	18	U	17	U
TO15	2-Hexanone	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	20	UJ	20	U	19	U
TO15	3-Chloropropene	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	16	UJ	15	U	15	U
TO15	4-Ethyltoluene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.2	UJ	6.0	U	5.8	U
TO15	Acetone	ppbv	12	UJ	12	UJ	18	J
		ug/m3	30	UJ	29	UJ	42	J
TO15	Benzene	ppbv	1.2	UJ	2.1		1.2	U
		ug/m3	4.0	UJ	6.6		3.8	U
TO15	Benzyl chloride	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.5	UJ	6.3	U	6.1	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-24_011821		OC_SVE_VMP-26_012121		OC_SVE_VMP-27_011921	
		Lab Sample ID	2101535-01A		2101535-23A		2101535-18A	
		Dilution Factor	2.51		2.45		2.37	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	8.4	UJ	8.2	U	7.9	U
TO15	Bromoform	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	13	UJ	13	U	12	U
TO15	Bromomethane	ppbv	12	UJ	12	U	12	U
		ug/m3	49	UJ	48	U	46	U
TO15	Carbon disulfide	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	16	UJ	15	U	15	U
TO15	Carbon tetrachloride	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	7.9	UJ	7.7	U	7.4	U
TO15	Chlorobenzene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.8	UJ	5.6	U	5.4	U
TO15	Chloroethane	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	13	UJ	13	U	12	U
TO15	Chloroform	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.1	UJ	6.0	U	5.8	U
TO15	Chloromethane	ppbv	12	UJ	12	U	12	U
		ug/m3	26	UJ	25	U	24	U
TO15	cis-1,2-Dichloroethene	ppbv	1.2	UJ	1.2	UJ	1.2	UJ
		ug/m3	5.0	UJ	4.8	UJ	4.7	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.7	UJ	5.6	U	5.4	U
TO15	Dibromochloromethane	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	11	UJ	10	U	10	U
TO15	Ethylbenzene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.4	UJ	5.3	U	5.1	U
TO15	Freon 11	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	7.0	UJ	6.9	U	6.6	U
TO15	Freon 113	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	9.6	UJ	9.4	U	9.1	U
TO15	Freon 12	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	6.2	UJ	6.0	U	5.9	U
TO15	Hexachlorobutadiene	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	54	UJ	52	U	50	U
TO15	Hexane (N-Hexane)	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	4.4	UJ	4.3	U	4.2	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	5.0	UJ	4.9	U	5.1	
		ug/m3	12	UJ	12	U	12	
TO15	m,p-Xylene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.4	UJ	5.3	U	5.1	U
TO15	Methyl ethyl ketone	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	15	UJ	14	U	14	U
TO15	Methyl isobutyl ketone	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.1	UJ	5.0	U	4.8	U
TO15	Methyl Tert-Butyl Ether	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	18	UJ	18	U	17	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-24_011821		OC_SVE_VMP-26_012121		OC_SVE_VMP-27_011921	
		Lab Sample ID	2101535-01A		2101535-23A		2101535-18A	
		Dilution Factor	2.51		2.45		2.37	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	12	UJ	12	U	12	U
		ug/m3	44	UJ	42	U	41	U
TO15	o-Xylene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.4	UJ	5.3	U	5.1	U
TO15	Styrene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.3	UJ	5.2	U	5.0	U
TO15	Tetrachloroethene (PCE)	ppbv	75		1.2	U	1.2	U
		ug/m3	510		8.3	U	8.0	U
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	95	J+	24	U	24	U
		ug/m3	390	J+	100	U	97	U
TO15	Toluene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	4.7	UJ	4.6	U	4.5	U
TO15	trans-1,2-Dichloroethene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.0	UJ	4.8	U	4.7	U
TO15	trans-1,3-Dichloropropene	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	5.7	UJ	5.6	U	5.4	U
TO15	Trichloroethene (TCE)	ppbv	1.3	J,N	1.2	UJ	1.2	UJ
		ug/m3	7.0	J,N	6.6	UJ	6.4	UJ
TO15	Vinyl acetate	ppbv	5.0	UJ	4.9	U	4.7	U
		ug/m3	18	UJ	17	U	17	U
TO15	Vinyl chloride	ppbv	1.2	UJ	1.2	U	1.2	U
		ug/m3	3.2	UJ	3.1	U	3.0	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-31-24_011821		OC_SVE_VMP-32-24_011821		OC_SVE_VMP-32-60_011821	
		Lab Sample ID	2101535-06A		2101535-07A		2101535-08A	
		Dilution Factor	2.61		2.54		2.3	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	7.1	U	6.9	U	6.3	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	9.0	U	8.7	U	7.9	U
TO15	1,1,2-Trichloroethane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	7.1	U	6.9	U	6.3	U
TO15	1,1-Dichloroethane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.3	U	5.1	U	4.6	U
TO15	1,1-Dichloroethene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.2	U	5.0	U	4.6	U
TO15	1,1-Difluoroethane	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	14	U	14	U	12	U
TO15	1,2,4-Trichlorobenzene	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	39	U	38	U	34	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.4	U	6.2	U	5.6	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	10	U	9.8	U	8.8	U
TO15	1,2-Dichlorobenzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	7.8	U	7.6	U	6.9	U
TO15	1,2-Dichloroethane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.3	U	5.1	U	4.6	U
TO15	1,2-Dichloropropane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.0	U	5.9	U	5.3	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	9.1	U	8.9	U	8.0	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.4	U	6.2	U	5.6	U
TO15	1,3-Dichlorobenzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	7.8	U	7.6	U	6.9	U
TO15	1,4-Dichlorobenzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	7.8	U	7.6	U	6.9	U
TO15	1,4-Dioxane	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	19	U	18	U	16	U
TO15	2-Hexanone	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	21	U	21	U	19	U
TO15	3-Chloropropene	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	16	U	16	U	14	U
TO15	4-Ethyltoluene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.4	U	6.2	U	5.6	U
TO15	Acetone	ppbv	13	UJ	13	UJ	12	UJ
		ug/m3	31	UJ	30	UJ	27	UJ
TO15	Benzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	4.2	U	4.0	U	3.7	U
TO15	Benzyl chloride	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.8	U	6.6	U	6.0	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-31-24_011821		OC_SVE_VMP-32-24_011821		OC_SVE_VMP-32-60_011821	
		Lab Sample ID	2101535-06A		2101535-07A		2101535-08A	
		Dilution Factor	2.61		2.54		2.3	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	8.7	U	8.5	U	7.7	U
TO15	Bromoform	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	13	U	13	U	12	U
TO15	Bromomethane	ppbv	13	U	13	U	12	U
		ug/m3	51	U	49	U	45	U
TO15	Carbon disulfide	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	16	U	16	U	14	U
TO15	Carbon tetrachloride	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	8.2	U	8.0	U	7.2	U
TO15	Chlorobenzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.0	U	5.8	U	5.3	U
TO15	Chloroethane	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	14	U	13	U	12	U
TO15	Chloroform	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.4	U	6.2	U	5.6	U
TO15	Chloromethane	ppbv	13	U	13	U	12	U
		ug/m3	27	U	26	U	24	U
TO15	cis-1,2-Dichloroethene	ppbv	1.3	UJ	1.3	UJ	1.2	UJ
		ug/m3	5.2	UJ	5.0	UJ	4.6	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.9	U	5.8	U	5.2	U
TO15	Dibromochloromethane	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	11	U	11	U	9.8	U
TO15	Ethylbenzene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.7	U	5.5	U	5.0	U
TO15	Freon 11	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	7.3	U	7.1	U	6.5	U
TO15	Freon 113	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	10	U	9.7	U	8.8	U
TO15	Freon 12	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	6.4	U	6.3	U	5.7	U
TO15	Hexachlorobutadiene	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	56	U	54	U	49	U
TO15	Hexane (N-Hexane)	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	4.6	U	4.5	U	4.0	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	13	U	12	U	11	U
TO15	m,p-Xylene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.7	U	5.5	U	5.0	U
TO15	Methyl ethyl ketone	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	15	U	15	U	14	U
TO15	Methyl isobutyl ketone	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.3	U	5.2	U	4.7	U
TO15	Methyl Tert-Butyl Ether	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	19	U	18	U	16	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-31-24_011821		OC_SVE_VMP-32-24_011821		OC_SVE_VMP-32-60_011821	
		Lab Sample ID	2101535-06A		2101535-07A		2101535-08A	
		Dilution Factor	2.61		2.54		2.3	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	13	U	13	U	12	U
		ug/m3	45	U	44	U	40	U
TO15	o-Xylene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.7	U	5.5	U	5.0	U
TO15	Styrene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.6	U	5.4	U	4.9	U
TO15	Tetrachloroethene (PCE)	ppbv	1.3		2.4		5.6	
		ug/m3	8.8		16		38	
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	26	U	25	U	23	U
		ug/m3	110	U	100	U	94	U
TO15	Toluene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	4.9	U	4.8	U	4.3	U
TO15	trans-1,2-Dichloroethene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.2	U	5.0	U	4.6	U
TO15	trans-1,3-Dichloropropene	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	5.9	U	5.8	U	5.2	U
TO15	Trichloroethene (TCE)	ppbv	1.3	UJ	1.3	UJ	1.2	UJ
		ug/m3	7.0	UJ	6.8	UJ	6.2	UJ
TO15	Vinyl acetate	ppbv	5.2	U	5.1	U	4.6	U
		ug/m3	18	U	18	U	16	U
TO15	Vinyl chloride	ppbv	1.3	U	1.3	U	1.2	U
		ug/m3	3.3	U	3.2	U	2.9	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-43-24_011821		OC_SVE_VMP-5_011921		OC_SVE_VMP-92-70_011921	
		Lab Sample ID	2101535-04A		2101535-20A		2101535-11A	
		Dilution Factor	2.54		2.47		2.46	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.3	U	1.2	U	2.3	
		ug/m3	6.9	U	6.7	U	12	
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	8.7	U	8.5	U	8.4	U
TO15	1,1,2-Trichloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.9	U	6.7	U	6.7	U
TO15	1,1-Dichloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.1	U	5.0	U	5.0	U
TO15	1,1-Dichloroethene	ppbv	1.3	U	1.2	U	140	
		ug/m3	5.0	U	4.9	U	580	
TO15	1,1-Difluoroethane	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	14	U	13	U	13	U
TO15	1,2,4-Trichlorobenzene	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	38	U	37	U	36	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.2	U	6.1	U	6.0	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	9.8	U	9.5	U	9.4	U
TO15	1,2-Dichlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.6	U	7.4	U	7.4	U
TO15	1,2-Dichloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.1	U	5.0	U	5.0	U
TO15	1,2-Dichloropropane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.9	U	5.7	U	5.7	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	8.9	U	8.6	U	8.6	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.2	U	6.1	U	6.0	U
TO15	1,3-Dichlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.6	U	7.4	U	7.4	U
TO15	1,4-Dichlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.6	U	7.4	U	7.4	U
TO15	1,4-Dioxane	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	18	U	18	U	18	U
TO15	2-Hexanone	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	21	U	20	U	20	U
TO15	3-Chloropropene	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	16	U	15	U	15	U
TO15	4-Ethyltoluene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.2	U	6.1	U	6.0	U
TO15	Acetone	ppbv	13	UJ	68	J	12	UJ
		ug/m3	30	UJ	160	J	29	UJ
TO15	Benzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	4.0	U	3.9	U	3.9	U
TO15	Benzyl chloride	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.6	U	6.4	U	6.4	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-43-24_011821		OC_SVE_VMP-5_011921		OC_SVE_VMP-92-70_011921	
		Lab Sample ID	2101535-04A		2101535-20A		2101535-11A	
		Dilution Factor	2.54		2.47		2.46	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	8.5	U	8.3	U	8.2	U
TO15	Bromoform	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	13	U	13	U	13	U
TO15	Bromomethane	ppbv	13	U	12	U	12	U
		ug/m3	49	U	48	U	48	U
TO15	Carbon disulfide	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	16	U	15	U	15	U
TO15	Carbon tetrachloride	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	8.0	U	7.8	U	7.7	U
TO15	Chlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.8	U	5.7	U	5.7	U
TO15	Chloroethane	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	13	U	13	U	13	U
TO15	Chloroform	ppbv	1.3	U	1.2	U	3.2	
		ug/m3	6.2	U	6.0	U	15	
TO15	Chloromethane	ppbv	13	U	12	U	12	U
		ug/m3	26	U	26	U	25	U
TO15	cis-1,2-Dichloroethene	ppbv	1.3	UJ	1.2	UJ	1.2	UJ
		ug/m3	5.0	UJ	4.9	UJ	4.9	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.8	U	5.6	U	5.6	U
TO15	Dibromochloromethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	11	U	10	U	10	U
TO15	Ethylbenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.5	U	5.4	U	5.3	U
TO15	Freon 11	ppbv	1.3	U	1.2	U	78	
		ug/m3	7.1	U	6.9	U	440	
TO15	Freon 113	ppbv	1.3	U	1.2	U	260	
		ug/m3	9.7	U	9.5	U	2000	
TO15	Freon 12	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.3	U	6.1	U	6.1	U
TO15	Hexachlorobutadiene	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	54	U	53	U	52	U
TO15	Hexane (N-Hexane)	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	4.5	U	4.4	U	4.3	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	5.1	U	5.7		4.9	U
		ug/m3	12	U	14		12	U
TO15	m,p-Xylene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.5	U	5.4	U	5.3	U
TO15	Methyl ethyl ketone	ppbv	5.1	U	150		4.9	U
		ug/m3	15	U	440		14	U
TO15	Methyl isobutyl ketone	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.2	U	5.0	U	5.0	U
TO15	Methyl Tert-Butyl Ether	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	18	U	18	U	18	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-43-24_011821		OC_SVE_VMP-5_011921		OC_SVE_VMP-92-70_011921	
		Lab Sample ID	2101535-04A		2101535-20A		2101535-11A	
		Dilution Factor	2.54		2.47		2.46	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	13	U	12	U	12	U
		ug/m3	44	U	43	U	43	U
TO15	o-Xylene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.5	U	5.4	U	5.3	U
TO15	Styrene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.4	U	5.3	U	5.2	U
TO15	Tetrachloroethene (PCE)	ppbv	1.6		19		490	
		ug/m3	11		130		3400	
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	25	U	1600	J+	1200	J+
		ug/m3	100	U	6500	J+	4900	J+
TO15	Toluene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	4.8	U	4.6	U	4.6	U
TO15	trans-1,2-Dichloroethene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.0	U	4.9	U	4.9	U
TO15	trans-1,3-Dichloropropene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.8	U	5.6	U	5.6	U
TO15	Trichloroethene (TCE)	ppbv	1.3	UJ	2.9	J	35	J
		ug/m3	6.8	UJ	16	J	190	J
TO15	Vinyl acetate	ppbv	5.1	U	4.9	U	4.9	U
		ug/m3	18	U	17	U	17	U
TO15	Vinyl chloride	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	3.2	U	3.2	U	3.1	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-94-24_011821		OC_SVE_VMP-94-60_011821		OC_SVE_VMP-95-60_011821	
		Lab Sample ID	2101535-02A		2101535-03A		2101535-05A	
		Dilution Factor	2.58		2.4		2.46	
Analytical Method	Parameter	Unit						
TO15	1,1,1-Trichloroethane (TCA)	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.0	U	6.5	U	6.7	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	8.8	U	8.2	U	8.4	U
TO15	1,1,2-Trichloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.0	U	6.5	U	6.7	U
TO15	1,1-Dichloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.2	U	4.8	U	5.0	U
TO15	1,1-Dichloroethene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.1	U	4.8	U	4.9	U
TO15	1,1-Difluoroethane	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	14	U	13	U	13	U
TO15	1,2,4-Trichlorobenzene	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	38	U	36	U	36	U
TO15	1,2,4-Trimethylbenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.3	U	5.9	U	6.0	U
TO15	1,2-Dibromoethane (EDB)	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	9.9	U	9.2	U	9.4	U
TO15	1,2-Dichlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.8	U	7.2	U	7.4	U
TO15	1,2-Dichloroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.2	U	4.8	U	5.0	U
TO15	1,2-Dichloropropane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.0	U	5.5	U	5.7	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	9.0	U	8.4	U	8.6	U
TO15	1,3,5-Trimethylbenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.3	U	5.9	U	6.0	U
TO15	1,3-Dichlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.8	U	7.2	U	7.4	U
TO15	1,4-Dichlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.8	U	7.2	U	7.4	U
TO15	1,4-Dioxane	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	18	U	17	U	18	U
TO15	2-Hexanone	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	21	U	20	U	20	U
TO15	3-Chloropropene	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	16	U	15	U	15	U
TO15	4-Ethyltoluene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.3	U	5.9	U	6.0	U
TO15	Acetone	ppbv	13	UJ	12	UJ	12	UJ
		ug/m3	31	UJ	28	UJ	29	UJ
TO15	Benzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	4.1	U	3.8	U	3.9	U
TO15	Benzyl chloride	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.7	U	6.2	U	6.4	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-94-24_011821		OC_SVE_VMP-94-60_011821		OC_SVE_VMP-95-60_011821	
		Lab Sample ID	2101535-02A		2101535-03A		2101535-05A	
		Dilution Factor	2.58		2.4		2.46	
Analytical Method	Parameter	Unit						
TO15	Bromodichloromethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	8.6	U	8.0	U	8.2	U
TO15	Bromoform	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	13	U	12	U	13	U
TO15	Bromomethane	ppbv	13	U	12	U	12	U
		ug/m3	50	U	47	U	48	U
TO15	Carbon disulfide	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	16	U	15	U	15	U
TO15	Carbon tetrachloride	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	8.1	U	7.6	U	7.7	U
TO15	Chlorobenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.9	U	5.5	U	5.7	U
TO15	Chloroethane	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	14	U	13	U	13	U
TO15	Chloroform	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.3	U	5.8	U	6.0	U
TO15	Chloromethane	ppbv	13	U	12	U	12	U
		ug/m3	27	U	25	U	25	U
TO15	cis-1,2-Dichloroethene	ppbv	1.3	UJ	1.2	UJ	1.2	UJ
		ug/m3	5.1	UJ	4.8	UJ	4.9	UJ
TO15	cis-1,3-Dichloropropene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.8	U	5.4	U	5.6	U
TO15	Dibromochloromethane	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	11	U	10	U	10	U
TO15	Ethylbenzene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.6	U	5.2	U	5.3	U
TO15	Freon 11	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	7.2	U	6.7	U	6.9	U
TO15	Freon 113	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	9.9	U	9.2	U	9.4	U
TO15	Freon 12	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	6.4	U	5.9	U	6.1	U
TO15	Hexachlorobutadiene	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	55	U	51	U	52	U
TO15	Hexane (N-Hexane)	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	4.5	U	4.2	U	4.3	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	13	U	12	U	12	U
TO15	m,p-Xylene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.6	U	5.2	U	5.3	U
TO15	Methyl ethyl ketone	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	15	U	14	U	14	U
TO15	Methyl isobutyl ketone	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.3	U	4.9	U	5.0	U
TO15	Methyl Tert-Butyl Ether	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	19	U	17	U	18	U

Data Summary Form for SOIL GAS Samples
Job No. 2101535
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 1/18/2021 - 1/21/2021

		Field Sample ID	OC_SVE_VMP-94-24_011821		OC_SVE_VMP-94-60_011821		OC_SVE_VMP-95-60_011821	
		Lab Sample ID	2101535-02A		2101535-03A		2101535-05A	
		Dilution Factor	2.58		2.4		2.46	
Analytical Method	Parameter	Unit						
TO15	Methylene chloride	ppbv	13	U	12	U	12	U
		ug/m3	45	U	42	U	43	U
TO15	o-Xylene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.6	U	5.2	U	5.3	U
TO15	Styrene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.5	U	5.1	U	5.2	U
TO15	Tetrachloroethene (PCE)	ppbv	1.3	U	7.5		16	
		ug/m3	8.8	U	51		110	
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	26	U	24	U	25	U
		ug/m3	100	U	98	U	100	U
TO15	Toluene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	4.9	U	4.5	U	4.6	U
TO15	trans-1,2-Dichloroethene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.1	U	4.8	U	4.9	U
TO15	trans-1,3-Dichloropropene	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	5.8	U	5.4	U	5.6	U
TO15	Trichloroethene (TCE)	ppbv	1.3	UJ	1.2	UJ	1.2	UJ
		ug/m3	6.9	UJ	6.4	UJ	6.6	UJ
TO15	Vinyl acetate	ppbv	5.2	U	4.8	U	4.9	U
		ug/m3	18	U	17	U	17	U
TO15	Vinyl chloride	ppbv	1.3	U	1.2	U	1.2	U
		ug/m3	3.3	U	3.1	U	3.1	U

Data Summary Form for SOIL GAS Samples
Job No. 2102281
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 2/9/2021 - 2/9/2021

		Field Sample ID	OC_SVE_VMP-93-60_020921	
		Lab Sample ID	2102281-01A	
		Dilution Factor	4.07	
Analytical Method	Parameter	Unit		
TO15	1,1,1-Trichloroethane (TCA)	ppbv	2.0	U
		ug/m3	11	U
TO15	1,1,2,2-Tetrachloroethane	ppbv	2.0	U
		ug/m3	14	U
TO15	1,1,2-Trichloroethane	ppbv	2.0	U
		ug/m3	11	U
TO15	1,1-Dichloroethane	ppbv	2.0	U
		ug/m3	8.2	U
TO15	1,1-Dichloroethene	ppbv	2.0	U
		ug/m3	8.1	U
TO15	1,1-Difluoroethane	ppbv	8.1	U
		ug/m3	22	U
TO15	1,2,4-Trichlorobenzene	ppbv	8.1	U
		ug/m3	60	U
TO15	1,2,4-Trimethylbenzene	ppbv	2.0	U
		ug/m3	10	U
TO15	1,2-Dibromoethane (EDB)	ppbv	2.0	U
		ug/m3	16	U
TO15	1,2-Dichlorobenzene	ppbv	2.0	U
		ug/m3	12	U
TO15	1,2-Dichloroethane	ppbv	2.0	U
		ug/m3	8.2	U
TO15	1,2-Dichloropropane	ppbv	2.0	U
		ug/m3	9.4	U
TO15	1,2-Dichlorotetrafluoroethane	ppbv	2.0	U
		ug/m3	14	U
TO15	1,3,5-Trimethylbenzene	ppbv	2.0	U
		ug/m3	10	U
TO15	1,3-Dichlorobenzene	ppbv	2.0	U
		ug/m3	12	U
TO15	1,4-Dichlorobenzene	ppbv	2.0	U
		ug/m3	12	U
TO15	1,4-Dioxane	ppbv	8.1	U
		ug/m3	29	U
TO15	2-Hexanone	ppbv	8.1	U
		ug/m3	33	U
TO15	3-Chloropropene	ppbv	8.1	U
		ug/m3	25	U
TO15	4-Ethyltoluene	ppbv	2.0	U
		ug/m3	10	U
TO15	Acetone	ppbv	20	U
		ug/m3	48	U
TO15	Benzene	ppbv	2.0	U
		ug/m3	6.5	U
TO15	Benzyl chloride	ppbv	2.0	U
		ug/m3	10	U

Data Summary Form for SOIL GAS Samples
Job No. 2102281
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 2/9/2021 - 2/9/2021

		Field Sample ID	OC_SVE_VMP-93-60_020921	
		Lab Sample ID	2102281-01A	
		Dilution Factor	4.07	
Analytical Method	Parameter	Unit		
TO15	Bromodichloromethane	ppbv	2.0	U
		ug/m3	14	U
TO15	Bromoform	ppbv	2.0	U
		ug/m3	21	U
TO15	Bromomethane	ppbv	20	U
		ug/m3	79	U
TO15	Carbon disulfide	ppbv	8.1	U
		ug/m3	25	U
TO15	Carbon tetrachloride	ppbv	2.0	U
		ug/m3	13	U
TO15	Chlorobenzene	ppbv	2.0	U
		ug/m3	9.4	U
TO15	Chloroethane	ppbv	8.1	U
		ug/m3	21	U
TO15	Chloroform	ppbv	3.9	
		ug/m3	19	
TO15	Chloromethane	ppbv	20	U
		ug/m3	42	U
TO15	cis-1,2-Dichloroethene	ppbv	2.0	U
		ug/m3	8.1	U
TO15	cis-1,3-Dichloropropene	ppbv	2.0	U
		ug/m3	9.2	U
TO15	Dibromochloromethane	ppbv	2.0	U
		ug/m3	17	U
TO15	Ethylbenzene	ppbv	2.0	U
		ug/m3	8.8	U
TO15	Freon 11	ppbv	2.6	
		ug/m3	14	
TO15	Freon 113	ppbv	4.8	
		ug/m3	36	
TO15	Freon 12	ppbv	2.0	U
		ug/m3	10	U
TO15	Hexachlorobutadiene	ppbv	8.1	U
		ug/m3	87	U
TO15	Hexane (N-Hexane)	ppbv	2.0	U
		ug/m3	7.2	U
TO15	Isopropyl Alcohol (Isopropanol)	ppbv	8.1	U
		ug/m3	20	U
TO15	m,p-Xylene	ppbv	2.0	U
		ug/m3	8.8	U
TO15	Methyl ethyl ketone	ppbv	8.1	U
		ug/m3	24	U
TO15	Methyl isobutyl ketone	ppbv	2.0	U
		ug/m3	8.3	U
TO15	Methyl Tert-Butyl Ether	ppbv	8.1	U
		ug/m3	29	U

Data Summary Form for SOIL GAS Samples
Job No. 2102281
Site Name: Omega OU1/OU3
ddms Project No: proj_15473139D
Sample Date Range: 2/9/2021 - 2/9/2021

		Field Sample ID	OC_SVE_VMP-93-60_020921	
		Lab Sample ID	2102281-01A	
		Dilution Factor	4.07	
Analytical Method	Parameter	Unit		
TO15	Methylene chloride	ppbv	20	U
		ug/m3	71	U
TO15	o-Xylene	ppbv	2.0	U
		ug/m3	8.8	U
TO15	Styrene	ppbv	2.0	U
		ug/m3	8.7	U
TO15	Tetrachloroethene (PCE)	ppbv	500	
		ug/m3	3400	
TO15	TNMOC ref. to Heptane (MW=100)	ppbv	840	J+
		ug/m3	3400	J+
TO15	Toluene	ppbv	2.0	U
		ug/m3	7.7	U
TO15	trans-1,2-Dichloroethene	ppbv	2.0	U
		ug/m3	8.1	U
TO15	trans-1,3-Dichloropropene	ppbv	2.0	U
		ug/m3	9.2	U
TO15	Trichloroethene (TCE)	ppbv	7.2	
		ug/m3	39	
TO15	Vinyl acetate	ppbv	8.1	U
		ug/m3	29	U
TO15	Vinyl chloride	ppbv	2.0	U
		ug/m3	5.2	U

Data Quality Assessment
Vapor Phase GAC
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

SDG Number	Sample ID	Collection Date	Number of Samples	Analysis Method	Validation Level	QC Reviewed	Data Usability
2101209	OC_SVE_EFF_GAC_010821	01/08/2021	3	TO15	Stage 2B	IC, CC, Holding Times, Sample Receipt Conditions, Surrogates, MB, LCS/LCSD	TNMOC results were not validated. No qualification of sample results was warranted.
	OC_SVE_INF_GAC_010821						
	OC_SVE_MID_GAC_010821						
2102371	OC_SVE_EFF_GAC_021221	02/18/2021	3	TO15			TNMOC results were not validated. No qualification of sample results was warranted.
	OC_SVE_INF_GAC_021221						
	OC_SVE_MID_GAC_021221						
2103477	OC_SVE_EFF_GAC_030921	03/09/2021	3	TO15			TNMOC results were not validated. No qualification of sample results was warranted.
	OC_SVE_INF_GAC_030921						
	OC_SVE_MID_GAC_030921						

ATTACHMENT H

Summary of Indoor Air and Ambient Air Concentrations

Attachment H, Table H-1
Indoor Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Sample ID	IAQ_B1_011421 (B1)	IAQ_B1_011421K (B1)	IAQ_B2_011421 (B2)	IAQ_B3_011421 (B3)	IAQ_MR1_011421 (MR1)
SDG	2101453A	2101453A	2101453A	2101453A	2101453B
Sample Location	IAQ-BISHOP-01	IAQ-BISHOP-01	IAQ-BISHOP-02	IAQ-BISHOP-03	IAQ-MR-01
Building ID	BISHOP	BISHOP	BISHOP	BISHOP	MADSEN ROOFING
Sample Type	ORIG	DUP	ORIG	ORIG	ORIG
Date	Jan 14, 2021	Jan 14, 2021	Jan 14, 2021	Jan 14, 2021	Jan 14, 2021
Parameter					
1,1,2,2-Tetrachloroethane	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.22 UJ
Tetrachloroethene (PCE)	0.25	0.26	0.35	0.26	0.25
Trichloroethene (TCE)	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U
1,1,1-Trichloroethane (TCA)	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-Trichloroethane	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1-Dichloroethene	0.068 U	0.067 U	0.067 U	0.065 U	0.064 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.13 U	0.13 U
1,2-Dichloroethane	0.14 U	0.14 U	0.14 U	0.13 U	0.13 U
cis-1,2-Dichloroethene	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U
trans-1,2-Dichloroethene	0.68 U	0.67 U	0.67 U	0.65 U	0.64 U
trans-1,3-Dichloropropene	0.16 U	0.15 U	0.15 U	0.15 U	0.15 U
Carbon tetrachloride	0.42	0.41	0.38	0.4	0.38
Chloroform	0.26 J,N	0.24 J,N	0.21 J,N	0.19 J,N	0.22 J,N
Methylene chloride	1.2	1.2 U	1.2 U	1.1 U	1.4
Freon 11	1.3	1.2	1.2	1.3	1.2
Freon 113	0.52	0.52	0.53	0.52	0.52
Freon 12	1.9	1.9	1.9	1.9	1.9
Vinyl chloride	0.044 U	0.043 U	0.043 U	0.042 U	0.041 U
Acetone	43	40	72	38	38
Benzene	2.0	1.9	2.0	1.9	13
Toluene	6.5	6.2	9.9	8.8	38
Ethylbenzene	1.1	1.1	1.7	1.3	4.0
m,p-Xylene	4.4	4.3	6.9	4.7	17
o-Xylene	1.6	1.6	2.4	1.7	5.8
1,2-Dichlorobenzene	0.21 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.19 UJ
1,4-Dichlorobenzene	0.21 UJ	0.20 UJ	0.20 J	0.20 UJ	0.19 UJ
Chlorobenzene	0.16 U	0.15 U	0.16 U	0.15 U	0.15 U
Methyl Tert-Butyl Ether	0.62 U	0.60 U	0.61 U	0.59 U	0.58 U

U = chemical not detected. Lab detection limit for chemical is listed.
UJ = The analyte was analyzed for but was not detected. The reported quantitation limit may be higher than reported.
J,N = quantitatively estimated and presumptively present

All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample
DUP = field duplicate

Attachment H, Table H-1
Indoor Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Sample ID	IAQ_SC1_011421 (SC1)	IAQ_SC2_011421 (SC2)	IAQ_SC2_011421K (SC2)	IAQ_SC3_011421 (SC3)	IAQ_SUN1_011521 (SUN1)
SDG	2101453B	2101453A	2101453A	2101453B	2101453B
Sample Location	IAQ-SC-01	IAQ-SC-02	IAQ-SC-02	IAQ-SC-03	IAQ-SUN-01
Building ID	STAR CITY AUTO BODY	STAR CITY AUTO BODY	STAR CITY AUTO BODY	STAR CITY AUTO BODY	SUNLAND
Sample Type	ORIG	ORIG	DUP	ORIG	ORIG
Date	Jan 14, 2021	Jan 14, 2021	Jan 14, 2021	Jan 14, 2021	Jan 15, 2021
Parameter					
1,1,2,2-Tetrachloroethane	0.22 UJ	0.45 UJ	0.45 UJ	0.20 UJ	0.23 UJ
Tetrachloroethene (PCE)	0.27	0.44 U	0.45 U	0.24	0.45
Trichloroethene (TCE)	0.17 U	0.35 U	0.35 U	0.16 U	0.18 U
1,1,1-Trichloroethane (TCA)	0.18 U	0.36 U	0.36 U	0.16 U	0.18 U
1,1,2-Trichloroethane	0.18 U	0.36 U	0.36 U	0.16 U	0.18 U
1,1-Dichloroethene	0.064 U	0.13 U	0.13 U	0.059 U	0.067 U
1,1-Dichloroethane	0.13 U	0.26 U	0.27 U	0.12 U	0.14 U
1,2-Dichloroethane	0.13 U	0.26 U	0.27 U	0.12 U	0.14 U
cis-1,2-Dichloroethene	0.13 U	0.26 U	0.26 U	0.12 U	0.13 U
trans-1,2-Dichloroethene	0.64 U	1.3 U	1.3 U	0.59 U	0.67 U
trans-1,3-Dichloropropene	0.15 U	0.30 U	0.30 U	0.14 U	0.15 U
Carbon tetrachloride	0.38	0.71 J,N	0.42 U	0.38	0.40
Chloroform	0.19 J,N	0.32 U	0.32 U	0.19 J,N	0.18 J,N
Methylene chloride	3.1	2.8	3.0	2.1	2.8
Freon 11	1.2	1.2	1.2	1.2	1.2
Freon 113	0.51	0.51	0.50 J	0.50	0.53
Freon 12	2.0	2.0	2.0	1.8	1.9
Vinyl chloride	0.041 U	0.083 U	0.084 U	0.038 U	0.043 U
Acetone	340 J	1500 J	1500 J	310 J	35
Benzene	3.2	4.5	4.8	2.6	1.3
Toluene	15	180	210	10	5.4
Ethylbenzene	3.6	13	13	3.1	0.89
m,p-Xylene	17	57	53	14	3.5
o-Xylene	5.3	17	16	4.5	1.2
1,2-Dichlorobenzene	0.19 UJ	0.39 UJ	0.40 UJ	0.18 UJ	0.20 UJ
1,4-Dichlorobenzene	0.19 UJ	0.39 UJ	0.40 UJ	0.19 J	0.20 UJ
Chlorobenzene	0.15 U	0.30 U	0.30 U	0.14 U	0.16 U
Methyl Tert-Butyl Ether	0.58 U	1.2 U	1.2 U	0.54 U	0.61 U

U = chemical not detected. Lab detection limit for chemical is listed.
UJ = The analyte was analyzed for but was not detected. The reported quantitation limit may be higher than reported.
J = results are qualified as estimated
J,N = quantitatively estimated and presumptively present

All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample
DUP = field duplicate

Attachment H, Table H-1
Indoor Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Sample ID	IAQ_SUN2_011521 (SUN2)	IAQ_TP1_011421 (TP1)	IAQ_TP1_011421K2 (TP1)	IAQ_TP3_011421 (TP3)
SDG	2101453B	2101453A	M011501	2101453A
Sample Location	IAQ-SUN-02	IAQ-TP-01	IAQ-TP-01	IAQ-TP-03
Building ID	SUNLAND	TERRA PAVE	TERRA PAVE	TERRA PAVE
Sample Type	ORIG	ORIG	SPLIT	ORIG
Date	Jan 15, 2021	Jan 14, 2021	Jan 14, 2021	Jan 14, 2021
Parameter				
1,1,2,2-Tetrachloroethane	0.23 UJ	0.24 UJ	0.069 J,N	0.22 UJ
Tetrachloroethene (PCE)	0.50	0.80	0.67	2.0
Trichloroethene (TCE)	0.18 U	0.18 U	0.054 U	0.18 U
1,1,1-Trichloroethane (TCA)	0.18 U	0.19 U	0.055 U	0.18 U
1,1,2-Trichloroethane	0.18 U	0.19 U	0.055 U	0.18 U
1,1-Dichloroethene	0.067 U	0.42	0.02 U	0.065 U
1,1-Dichloroethane	0.14 U	0.14 U	0.04 U	0.13 U
1,2-Dichloroethane	0.14 U	0.14 U	0.04 U	0.13 U
cis-1,2-Dichloroethene	0.13 U	0.14 U	0.04 U	0.13 U
trans-1,2-Dichloroethene	0.67 U	0.68 U	0.04 U	0.65 U
trans-1,3-Dichloropropene	0.15 U	0.16 U	0.091 U	0.15 U
Carbon tetrachloride	0.39	0.39	0.4	0.39
Chloroform	0.16 J,N	0.30 J,N	0.26	0.31 U
Methylene chloride	2.8	2.3 J	1.6 J	5.1 J
Freon 11	1.2	1.3 J	1.0 J	1.2 J
Freon 113	0.51	0.51	0.44	0.52
Freon 12	1.9	1.8 J	0.049 UJ	1.8 J
Vinyl chloride	0.043 U	0.044 U	0.013 U	0.042 U
Acetone	31	41 J	16 J	36 J
Benzene	1.3	5.0	4.6	9.0
Toluene	4.7	33	32	67
Ethylbenzene	0.76	8.2 J	10 J	19 J
m,p-Xylene	3.0	40	46	92
o-Xylene	1.1	15 J	18 J	37 J
1,2-Dichlorobenzene	0.20 UJ	0.21 UJ	0.06 U	0.20 UJ
1,4-Dichlorobenzene	0.20 UJ	0.21 UJ	0.28	0.20 UJ
Chlorobenzene	0.16 U	0.16 U	0.046 U	0.15 U
Methyl Tert-Butyl Ether	0.61 U	0.62 U	0.036 U	0.59 U

U = chemical not detected. Lab detection limit for chemical is listed.
UJ = The analyte was analyzed for but was not detected. The reported quantitation limit may be higher than reported.
J = results are qualified as estimated
J,N = quantitatively estimated and presumptively present

All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample
SPLIT = split sample

Attachment H, Table H-2
Indoor Air Monitoring Record
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

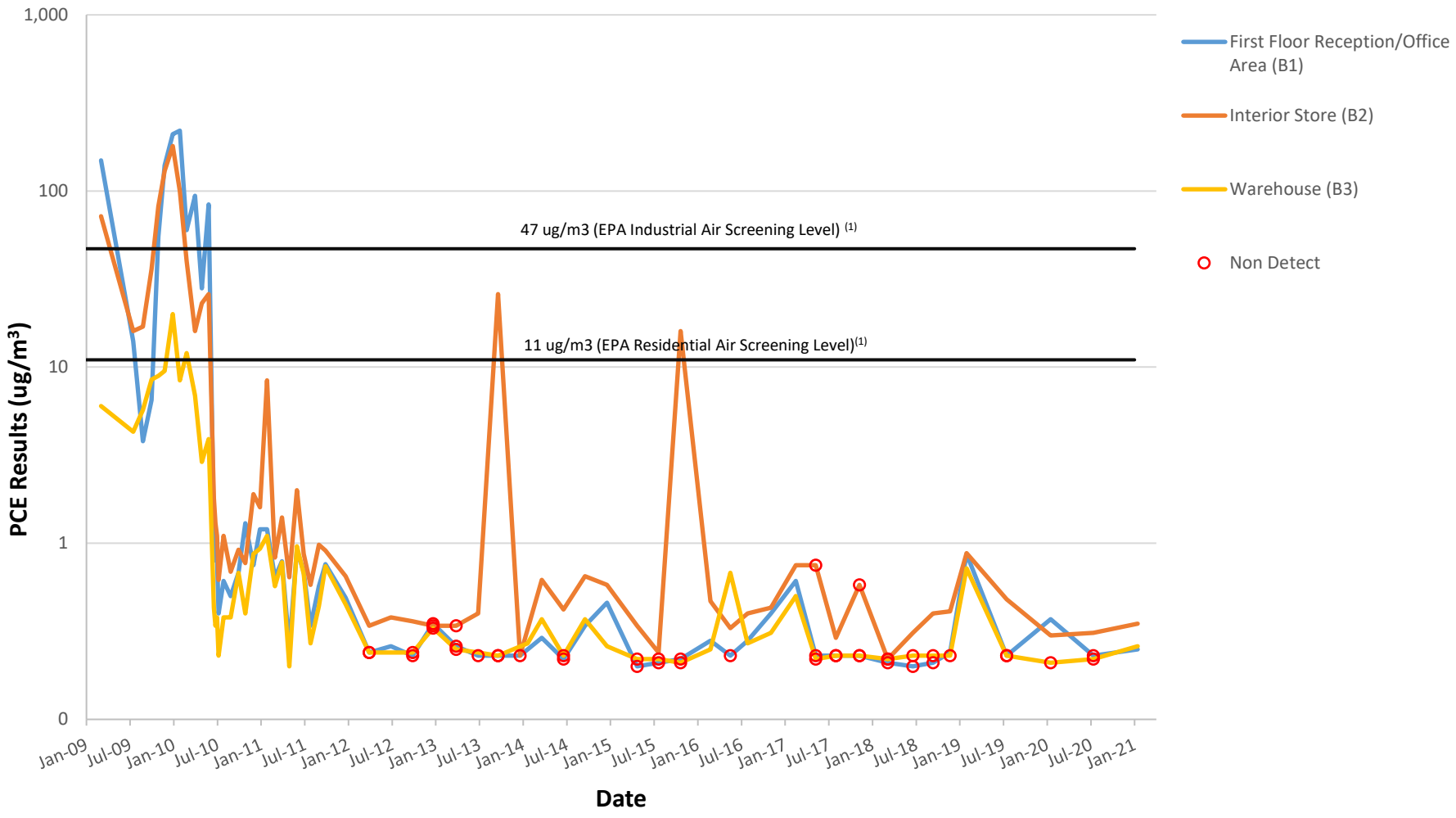
Building	IAQ Sample ID	IAQ Sample Date	HVAC Operations (On/Off/No HVAC)	Comments
Bishop Company	IAQ_B1_011421 (B1) IAQ_B1_011421K (B1)	1/14/2021	Off	Carpet floors. Doors and windows closed. One worker and two dogs inside.
	IAQ_B2_011421 (B2)	1/14/2021	Off	Carpet floors. Doors to store closed. Two workers in and out.
	IAQ_B3_011421 (B3)	1/14/2021	Off	Cement floors. Rollup gates on east and west ends of building are open. Several workers inside.
Madsen Roofing	IAQ_MR1_011421 (MR1)	1/14/2021	Off	Carpet floors. Door and windows closed. Container of "Quick Clean Wipes" nearby.
Star City Auto Body	IAQ_SC1_011421 (SC1)	1/14/2021	No HVAC	Cement floors. Windows closed. Tools and machines nearby. Several cars inside. Four workers inside. Several spray cans nearby.
	IAQ_SC2_011421 (SC2) IAQ_SC2_011421K (SC2)	1/14/2021	No HVAC	Cement floors. Rollup gate open. Several spray cans and paint cans around. A few workers around.
	IAQ_SC3_011421 (SC3)	1/14/2021	Off	Tile floors. Door and windows closed.
Sunland Enterprises	IAQ_SUN1_011521 (SUN1)	1/15/2021	No HVAC	Cement floor. Doors closed. Gate is partially open. Several tools and parts around.
	IAQ_SUN2_011521 (SUN2)	1/15/2021	No HVAC	Cement floor. Door closed. Several CNC machines and containers of soap.
Terra Pave	IAQ_TP1_011421 (TP1) IAQ_TP1_011421K2 (TP1)	1/14/2021	Off	Carpet floors. Doors and windows closed. One worker inside.
	IAQ_TP3_011421 (TP3)	1/14/2021	No HVAC	Cement floor. Door closed to office. Gate open. Several paint machines. Several containers and tools. Workers in and out.
Ambient Air	IAQ_AA1_011421 (AA1)	1/14/2021	No HVAC	Several trucks. Several asphalt machines. A few workers on property.
	IAQ_AA3_011421 (AA3)	1/14/2021	No HVAC	Several cars parked nearby.
	IAQ_AA95__011521 (AA95)	1/15/2021	No HVAC	A few trucks, a forklift, and one worker around.

Attachment H, Table H-3
Ambient Air Analytical Data
OU-1 Full Scale On-Site Soil Remedy, Omega Chemical Superfund Site
First Quarter 2021

Sample ID	IAQ_AA1_011421 (AA1)	IAQ_AA3_011421 (AA3)	IAQ_AA95__011521 (AA95)
SDG	2101453A	2101453A	2101453B
Sample Location	IAQ-AMB-01	IAQ-AMB-03	IAQ-AMB-95
Building ID	AMBIENT AIR	AMBIENT AIR	AMBIENT AIR
Sample Type	ORIG	ORIG	ORIG
Date	Jan 14, 2021	Jan 14, 2021	Jan 15, 2021
Parameter			
1,1,2,2-Tetrachloroethane	0.23 UJ	0.24 UJ	0.24 UJ
Tetrachloroethene (PCE)	0.46	0.26	0.90
Trichloroethene (TCE)	0.18 U	0.18 U	0.19 U
1,1,1-Trichloroethane (TCA)	0.18 U	0.19 U	0.19 U
1,1,2-Trichloroethane	0.18 U	0.19 U	0.19 U
1,1-Dichloroethene	0.067 U	0.068 U	0.070 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U
1,2-Dichloroethane	0.14 U	0.14 U	0.41
cis-1,2-Dichloroethene	0.13 U	0.14 U	0.14 U
trans-1,2-Dichloroethene	0.67 U	0.68 U	0.70 U
trans-1,3-Dichloropropene	0.15 U	0.16 U	0.16 U
Carbon tetrachloride	0.39	0.39	0.39
Chloroform	0.22 J,N	0.18 J,N	0.18 J,N
Methylene chloride	1.4	3.0	3.0
Freon 11	1.2	1.2	1.2
Freon 113	0.53	0.53	0.53
Freon 12	1.8	1.9	1.9
Vinyl chloride	0.043 U	0.044 U	0.045 U
Acetone	36	97 J	30
Benzene	3.4	2.0	1.3
Toluene	20	6.0	6.4
Ethylbenzene	3.6	1.4	0.73
m,p-Xylene	17	6.0	2.8
o-Xylene	6.1	2.0	1.0
1,2-Dichlorobenzene	0.20 UJ	0.21 UJ	0.21 UJ
1,4-Dichlorobenzene	0.20 UJ	0.21 UJ	0.21 UJ
Chlorobenzene	0.16 U	0.16 U	0.16 U
Methyl Tert-Butyl Ether	0.61 U	0.62 U	0.63 U

U = chemical not detected. Lab detection limit for chemical is listed.
UJ = The analyte was analyzed for but was not detected. The reported quantitation limit may be higher than reported.
J,N = quantitatively estimated and presumptively present
All results in micrograms per cubic meter of air (ug/m3)
ORIG = original sample

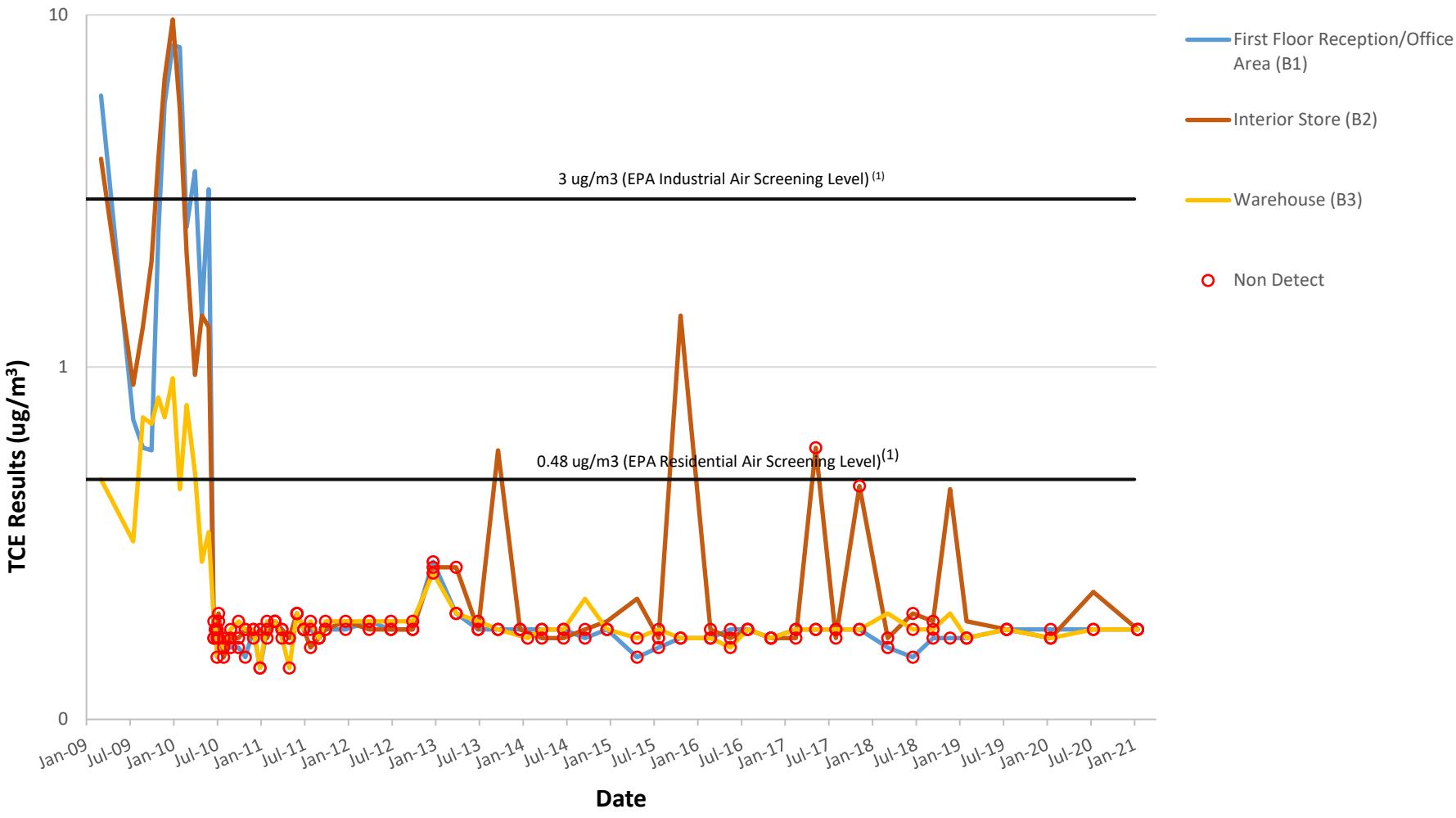
Attachment H, Figure H-1
Indoor Air Quality Tetrachloroethene (PCE) Results
Bishop Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

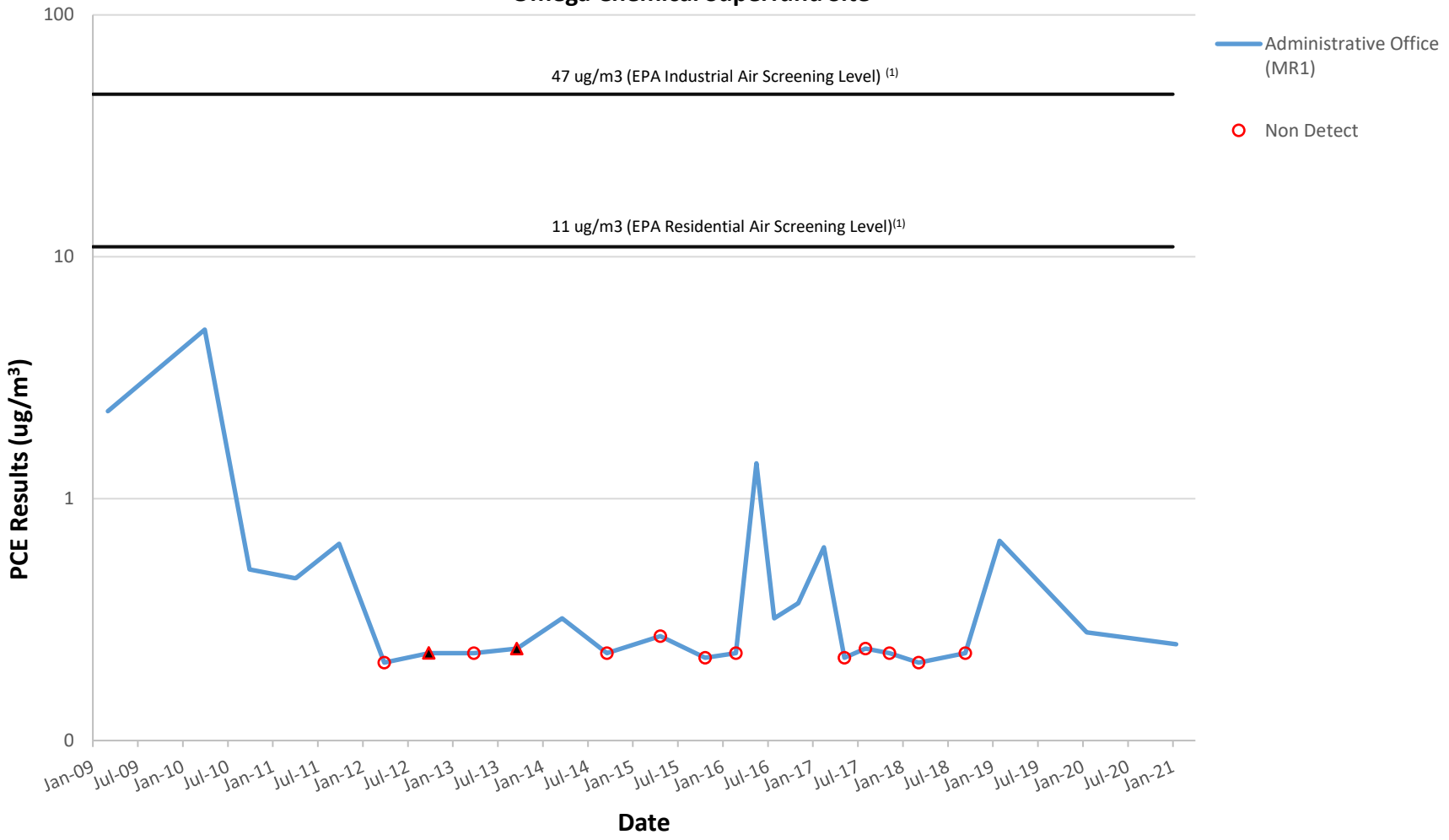
Attachment H, Figure H-2
Indoor Air Quality Trichloroethene (TCE) Results
Bishop Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

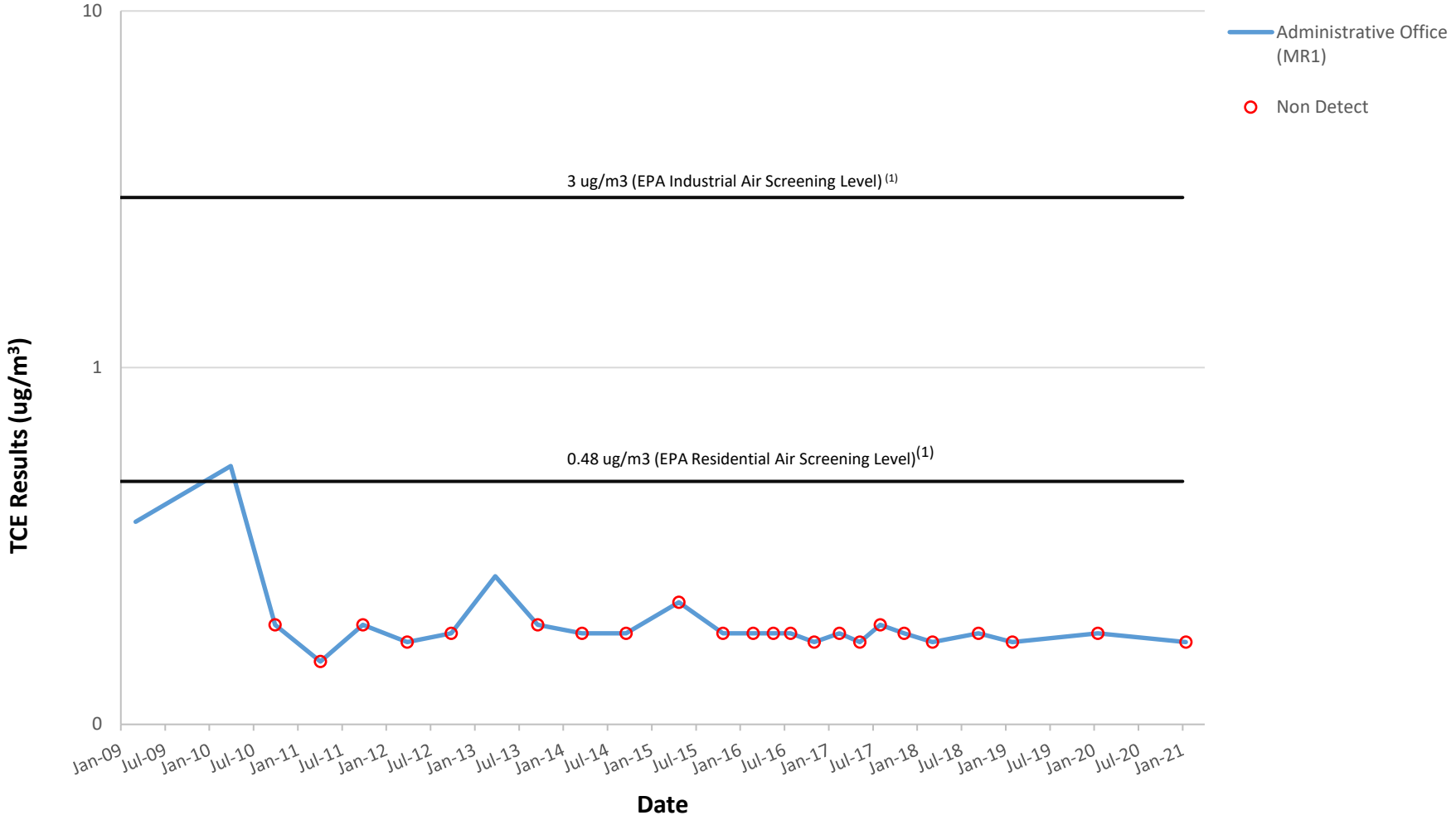
Attachment H, Figure H-3
Indoor Air Quality Tetrachloroethene (PCE) Results
Madsen Roofing Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

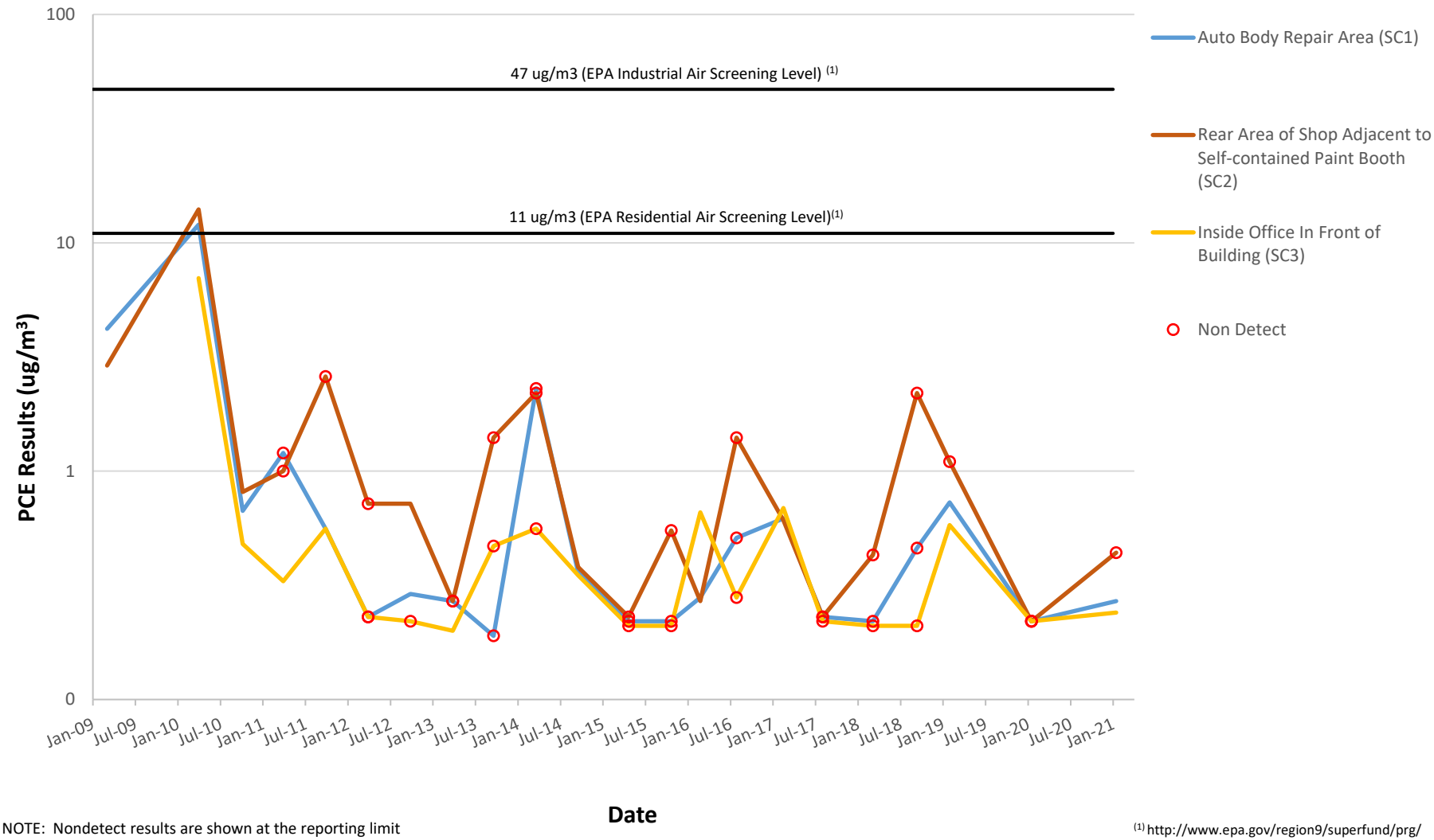
Attachment H, Figure H-4
Indoor Air Quality Tetrachloroethene (TCE) Results
Madsen Roofing Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

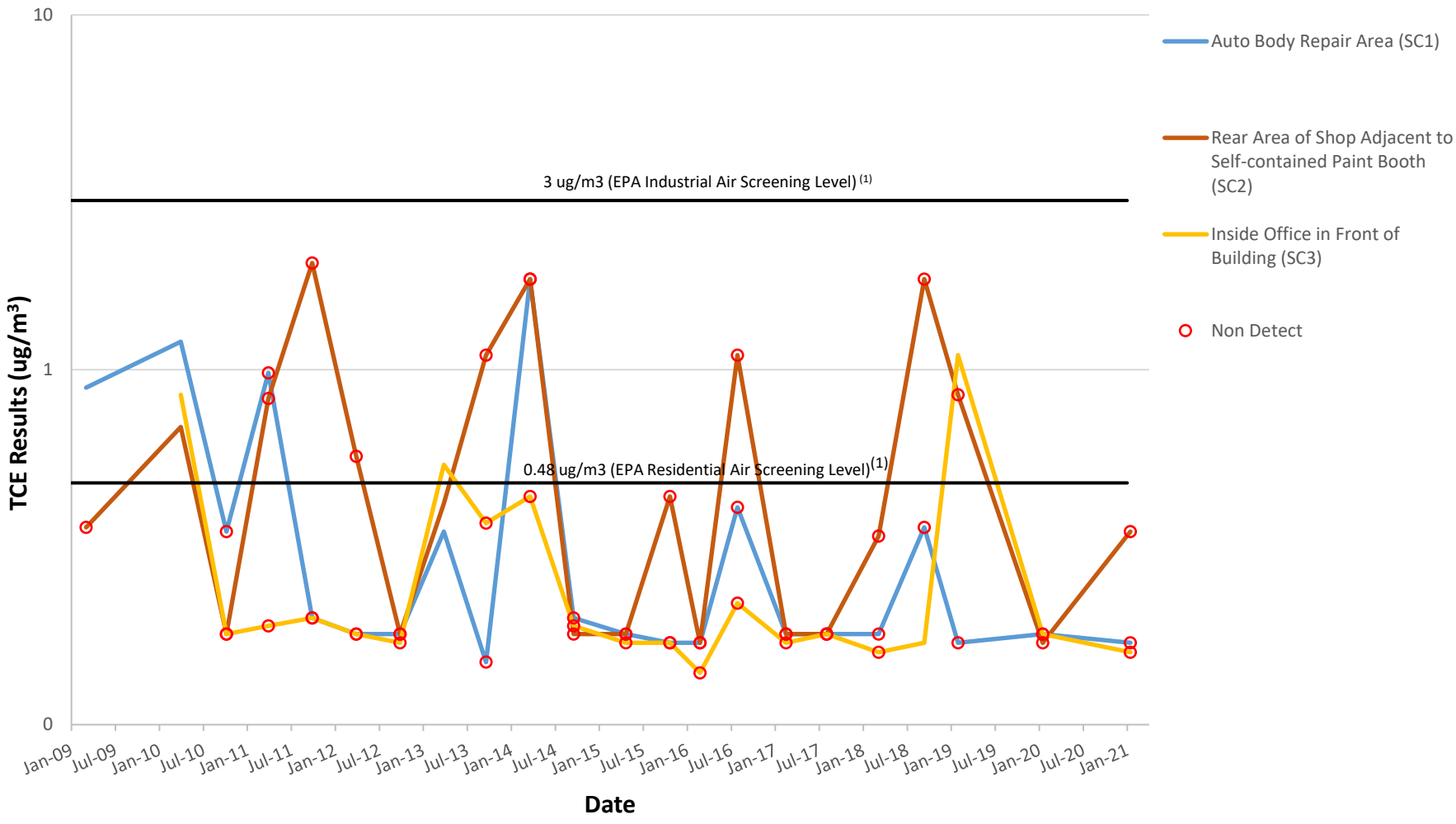
Attachment H, Figure H-5
Indoor Air Quality Tetrachloroethene (PCE) Results
Star City Auto Body Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

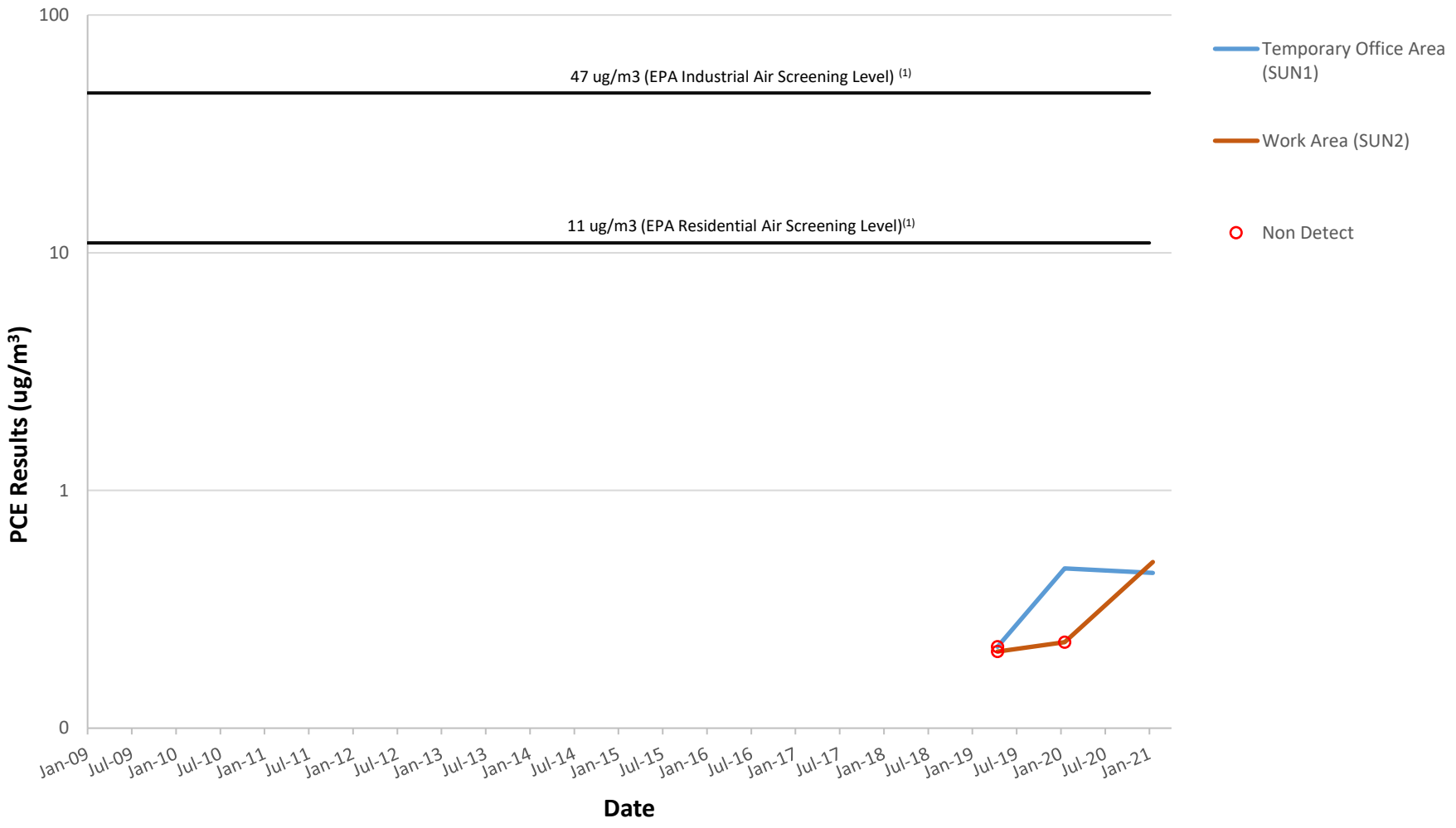
Attachment H, Figure H-6
Indoor Air Quality Trichloroethene (TCE) Results
Star City Auto Body Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

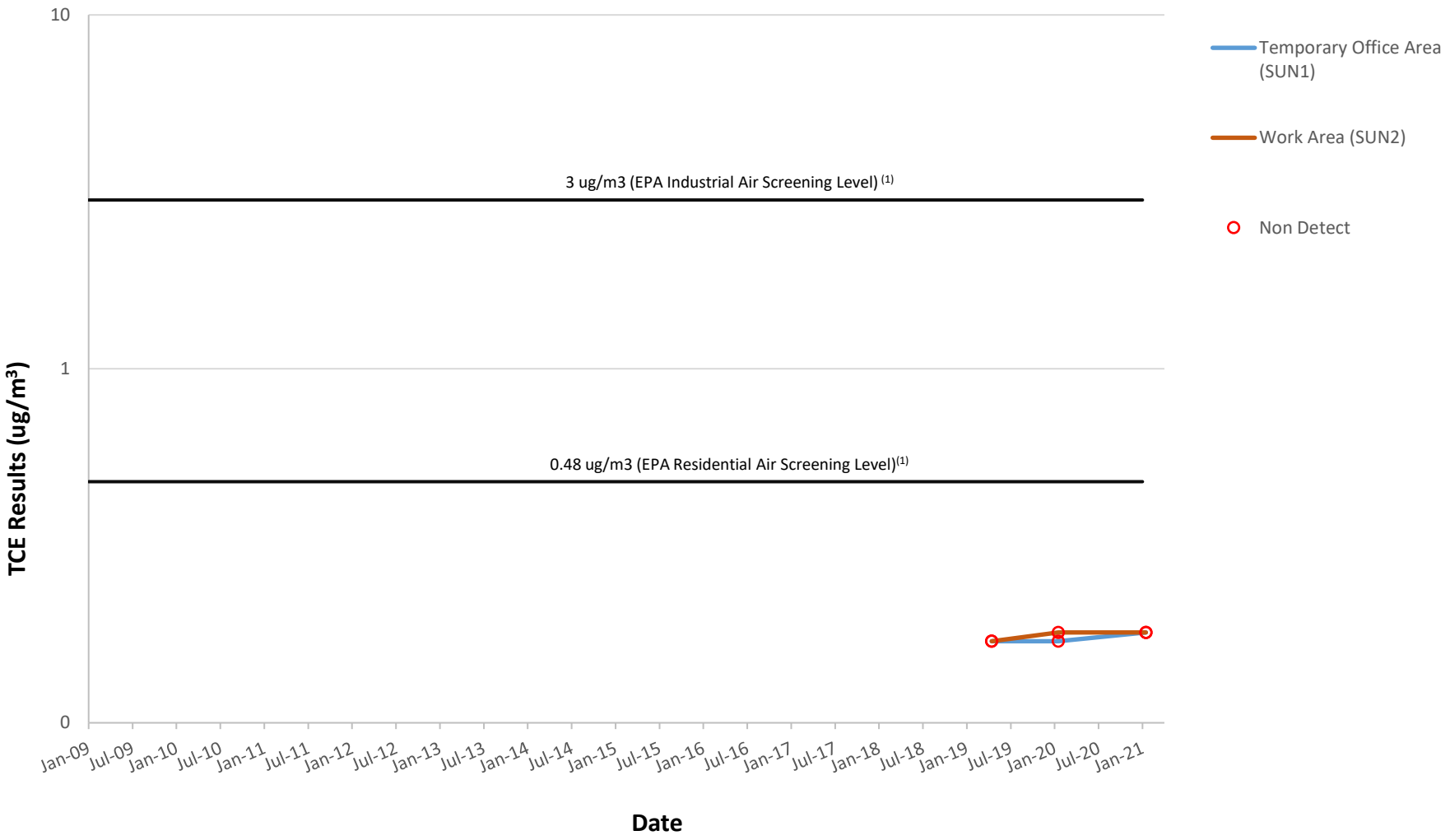
Attachment H, Figure H-7
Indoor Air Quality Tetrachloroethene (PCE) Results
Sunland Enterprises Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

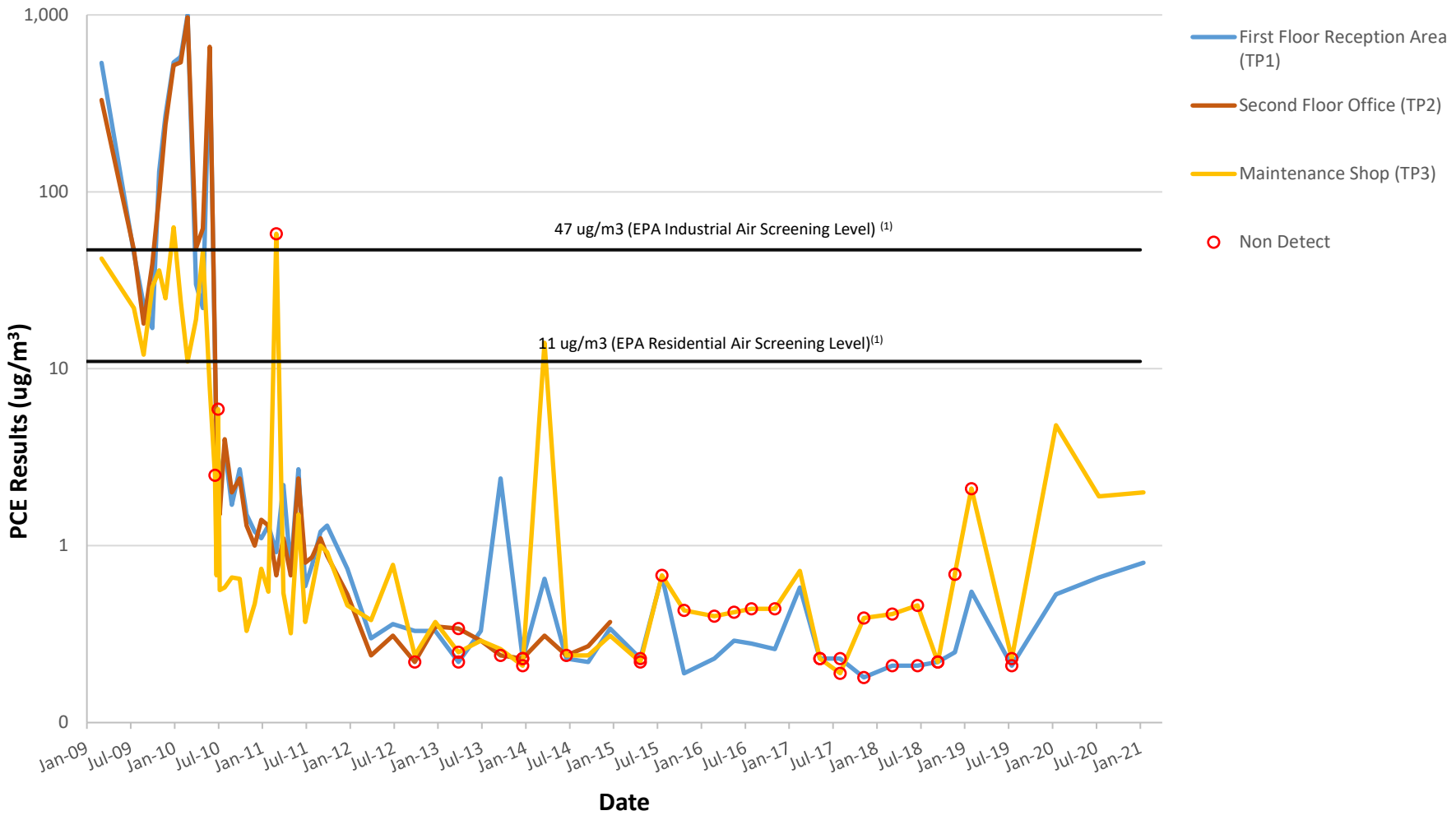
Attachment H, Figure H-8
Indoor Air Quality Trichloroethene (TCE) Results
Sunland Enterprises Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/

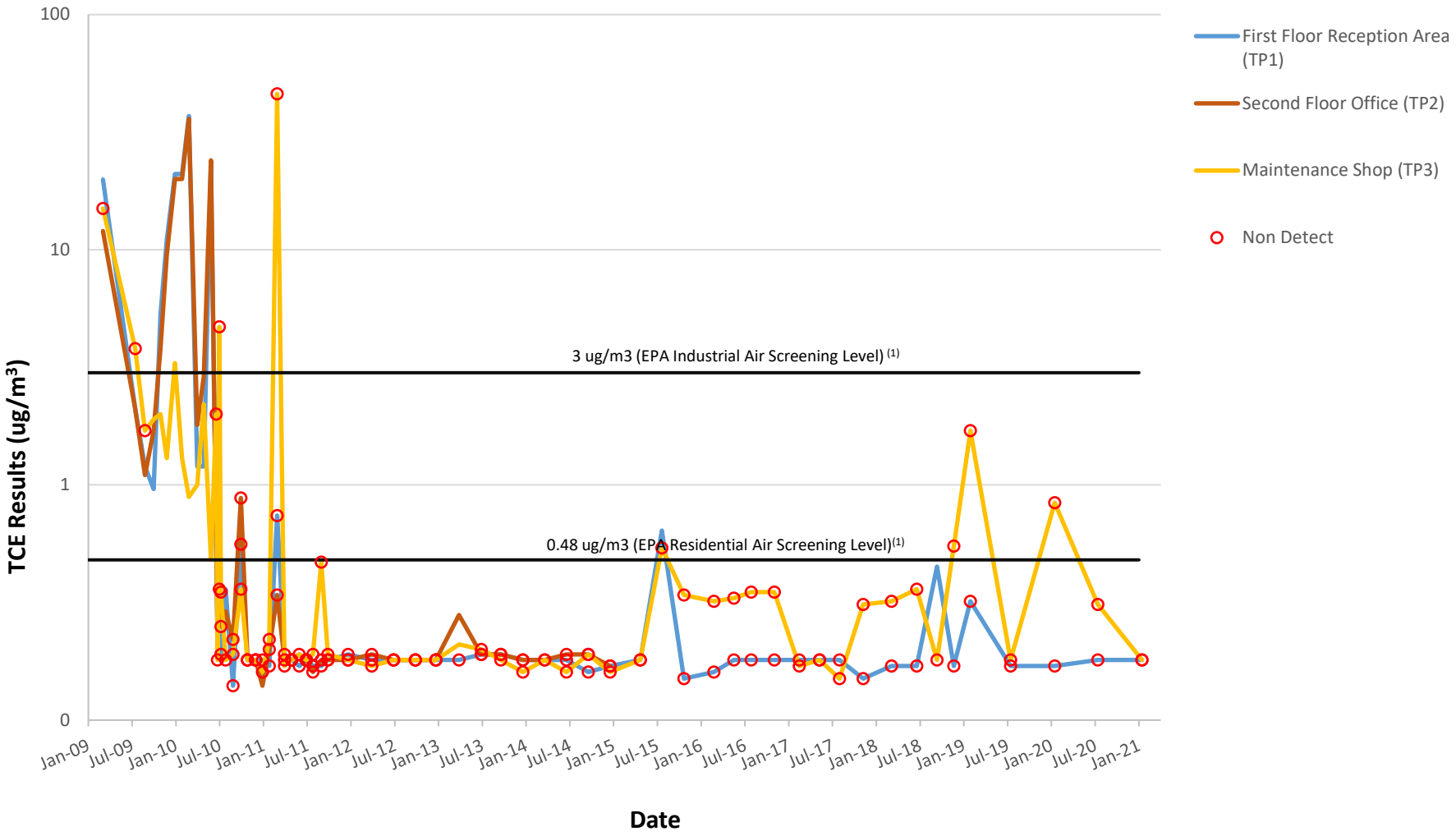
Attachment H, Figure H-9
Indoor Air Quality Tetrachloroethene (PCE) Results
Terra Pave Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

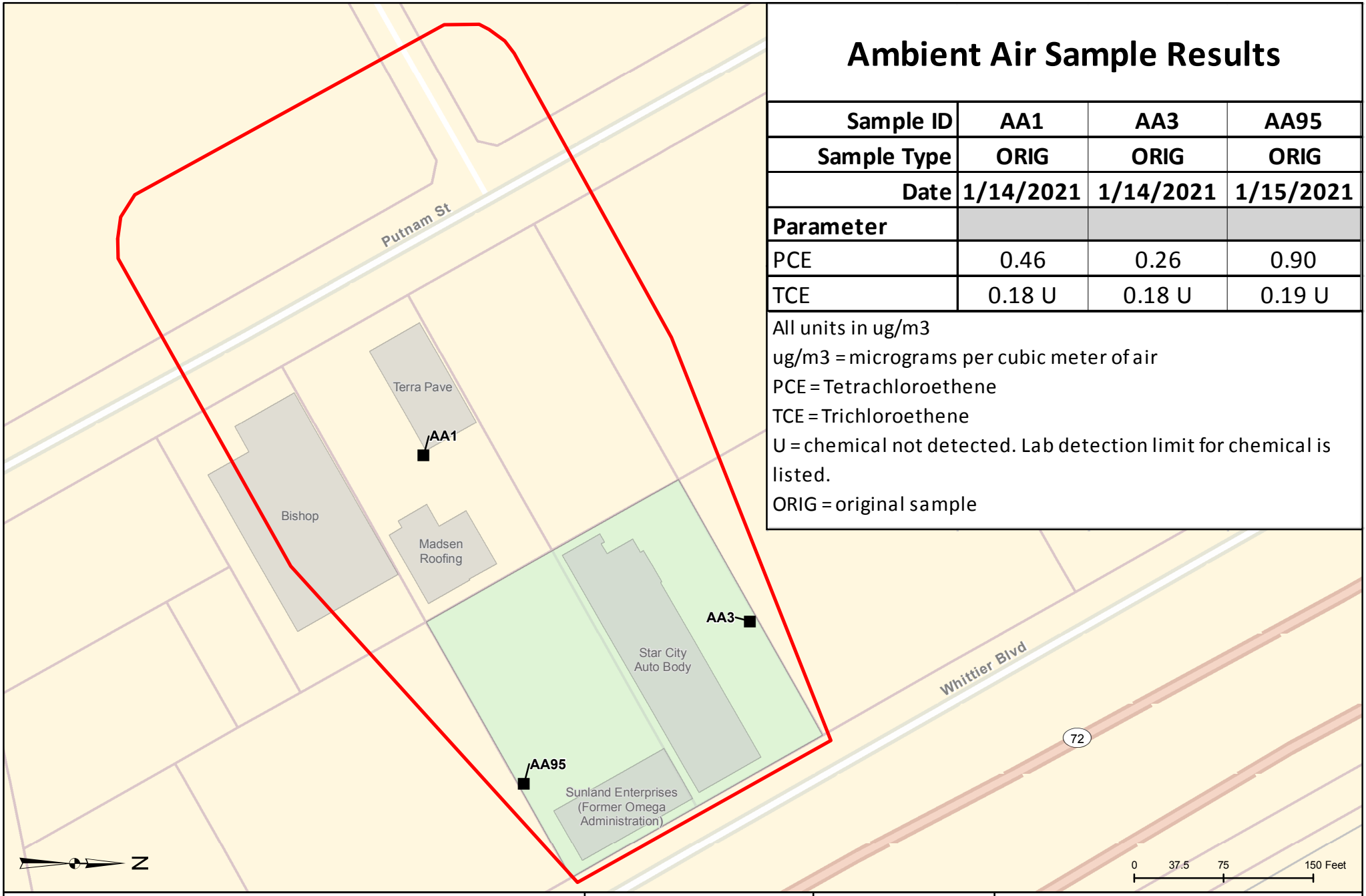
(1) http://www.epa.gov/region9/superfund/prg/

Attachment H, Figure H-10
Indoor Air Quality Trichloroethene (TCE) Results
Terra Pave Building
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

(1) http://www.epa.gov/region9/superfund/prg/



Ambient Air Sample Results

Sample ID	AA1	AA3	AA95
Sample Type	ORIG	ORIG	ORIG
Date	1/14/2021	1/14/2021	1/15/2021
Parameter			
PCE	0.46	0.26	0.90
TCE	0.18 U	0.18 U	0.19 U

All units in ug/m3

ug/m3 = micrograms per cubic meter of air

PCE = Tetrachloroethene

TCE = Trichloroethene

U = chemical not detected. Lab detection limit for chemical is listed.

ORIG = original sample

- Ambient Air Sample
- Building Currently Commercially/Industrially Occupied
- Building Currently Vacant
- OU-1 Boundary
- Former Omega Chemical Property Boundary

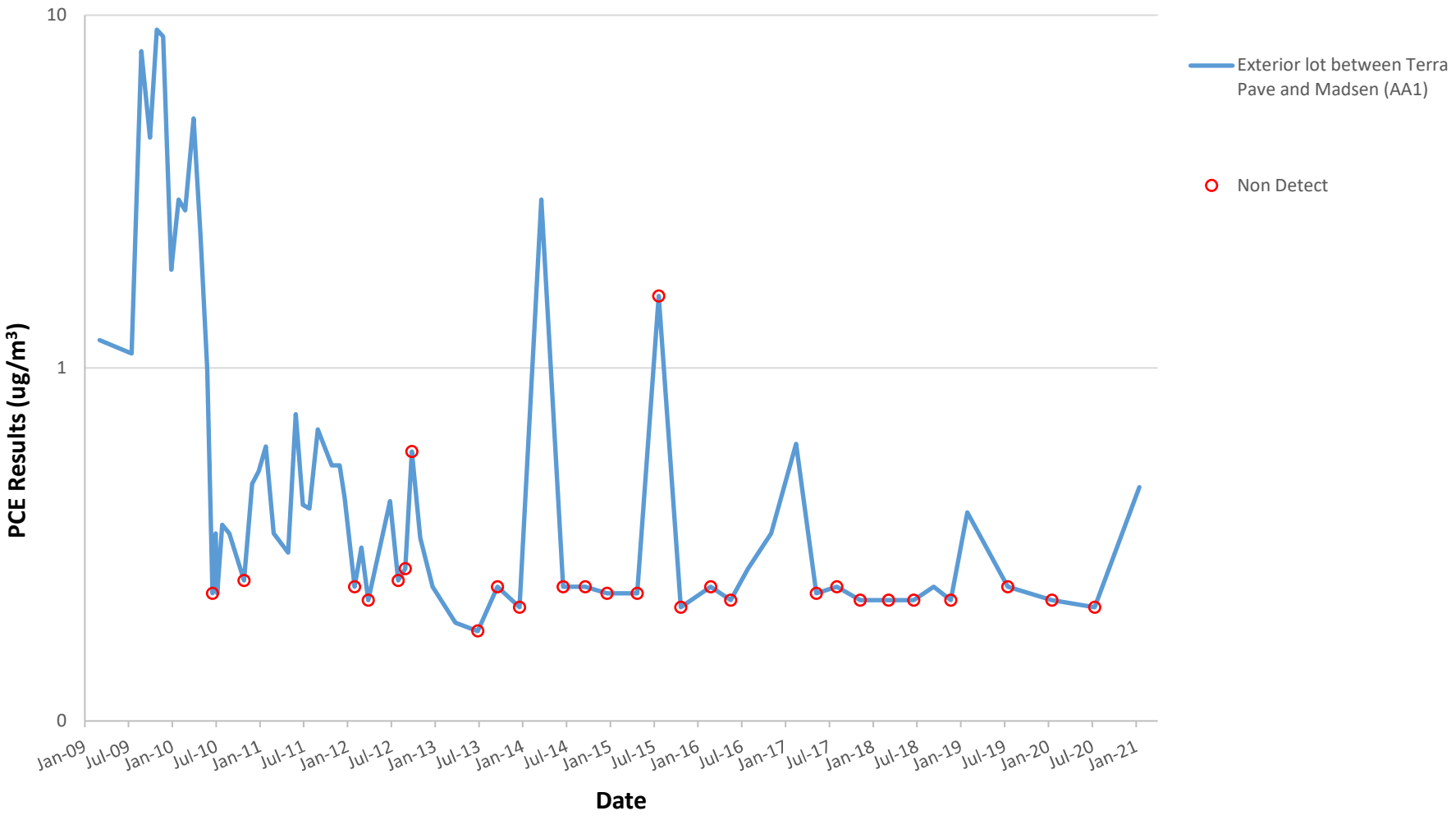
ddms

de maximis, inc.

Reviewed By: LM
Drawn By: KM
Date: 4/8/2021

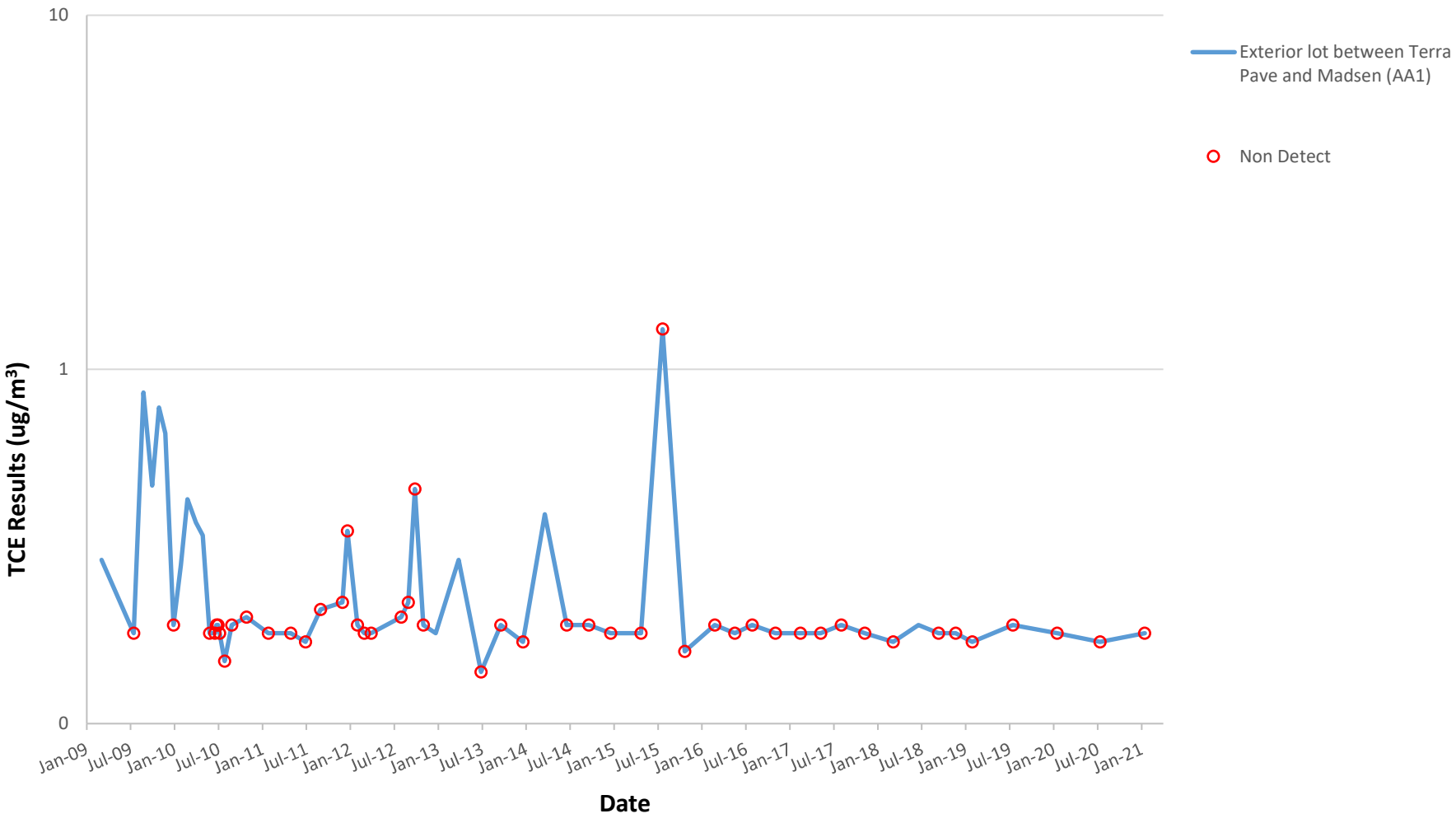
Attachment H, Figure H-11
Quarterly Ambient Air Concentrations
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site
First Quarter 2021

Attachment H, Figure H-12
Ambient Air Quality Tetrachloroethene (PCE) Results
Ambient Air - 01
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



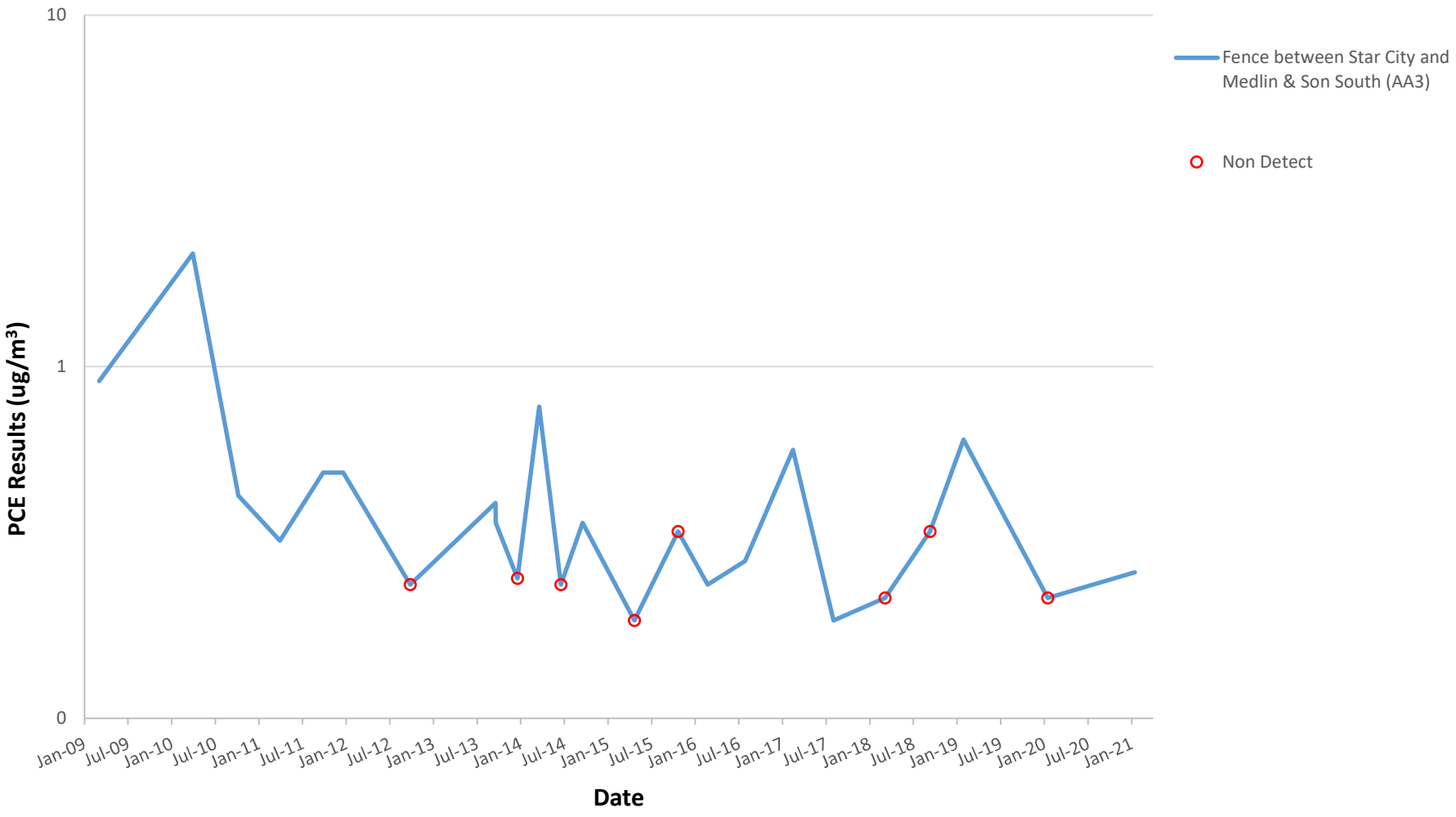
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-13
Ambient Air Quality Trichloroethene (TCE) Results
Ambient Air - 01
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



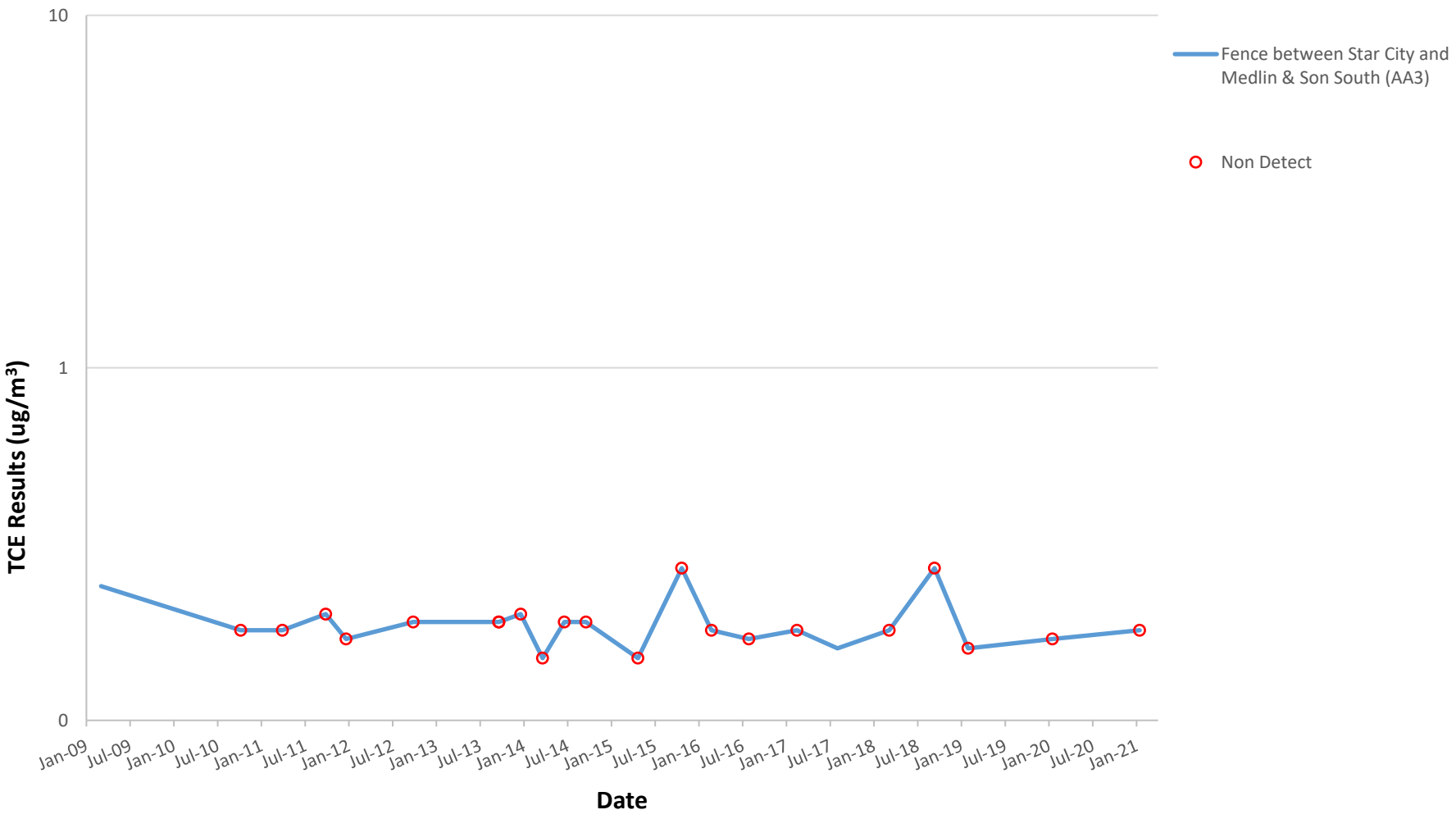
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-14
Ambient Air Quality Tetrachloroethene (PCE) Results
Ambient Air - 03
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



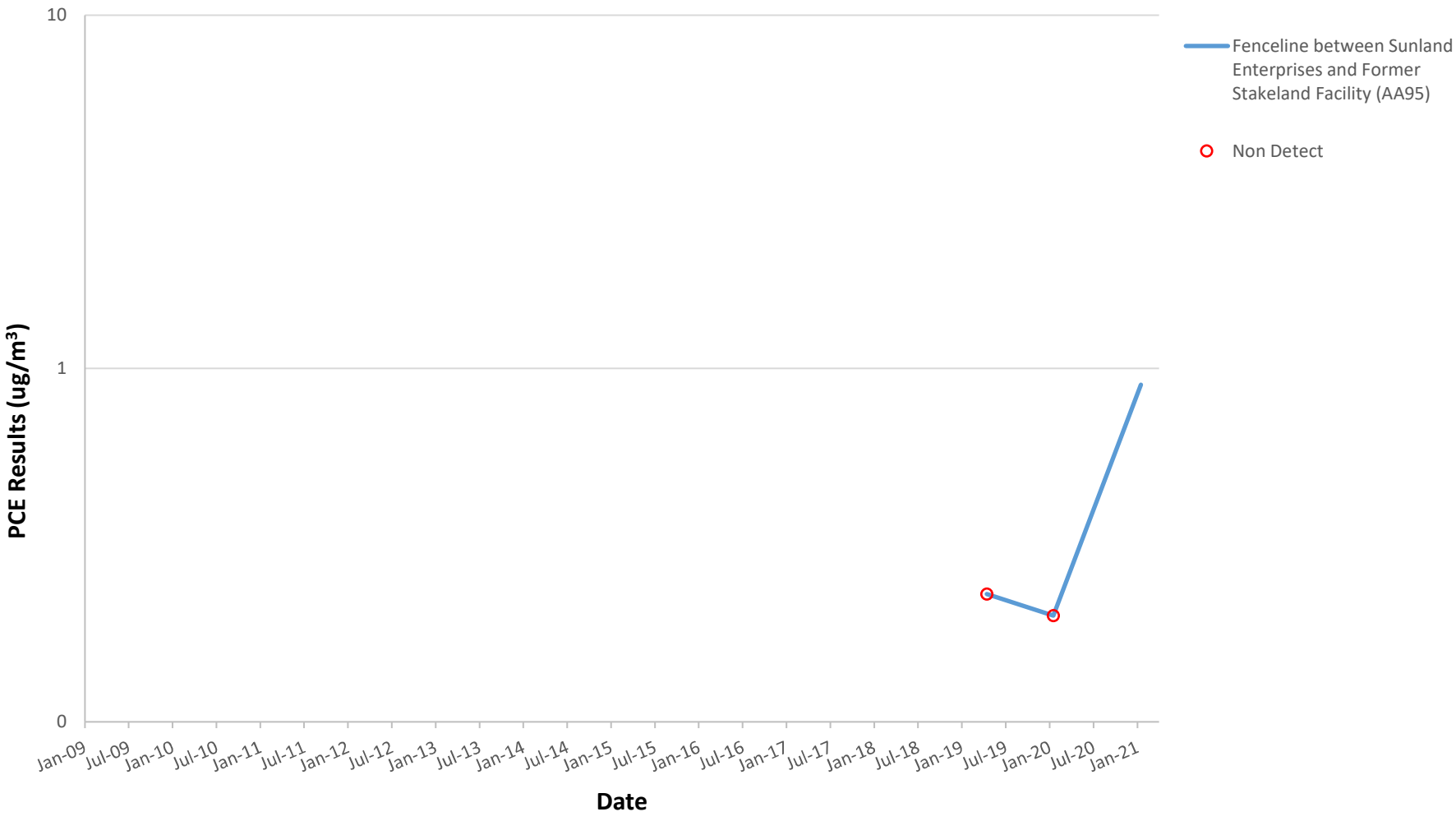
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-15
Ambient Air Quality Trichloroethene (TCE) Results
Ambient Air - 03
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



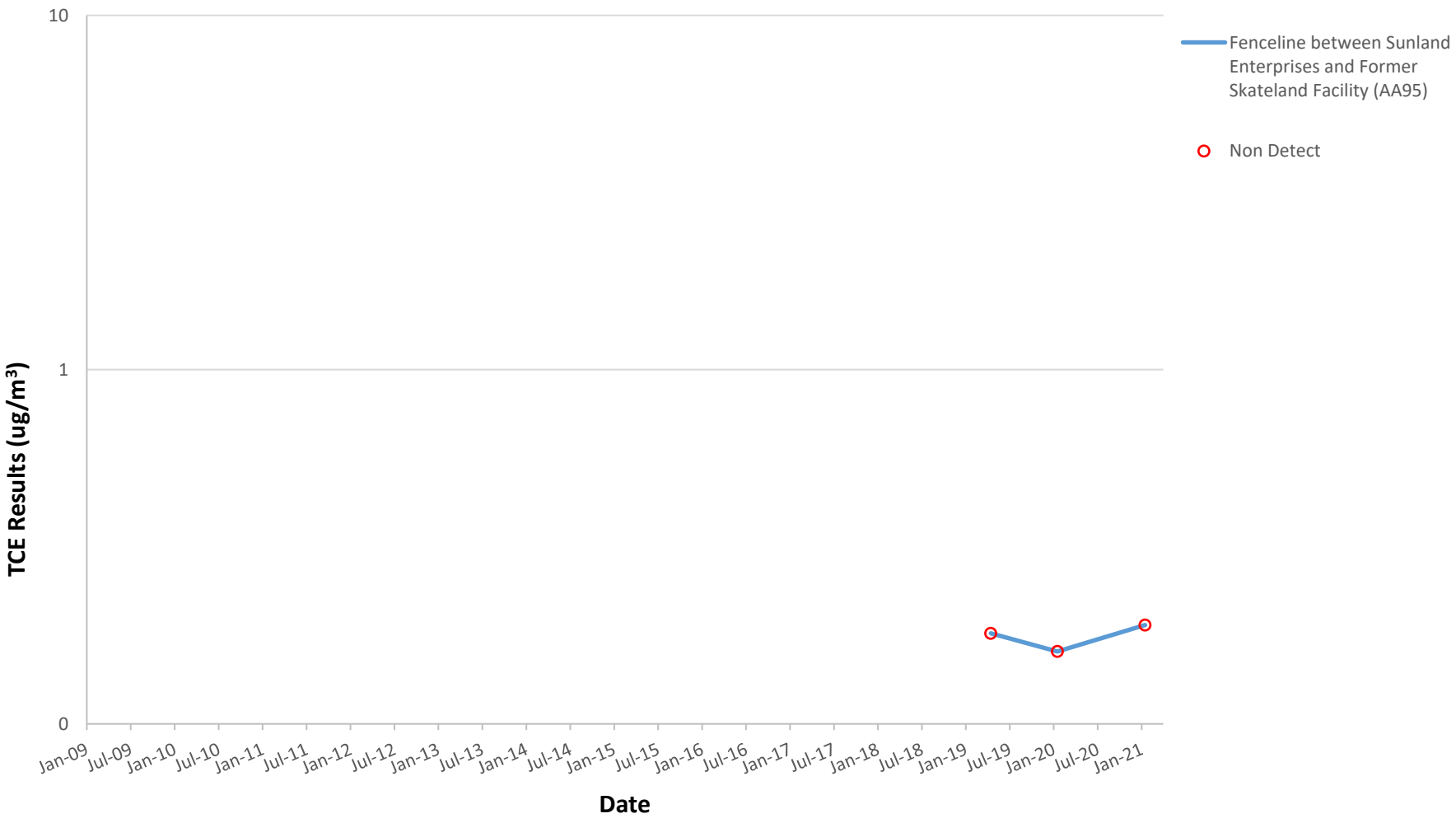
NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-16
Ambient Air Quality Tetrachloroethene (PCE) Results
Ambient Air - 95
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.

Attachment H, Figure H-17
Ambient Air Quality Trichloroethene (TCE) Results
Ambient Air - 95
OU-1 Full Scale On-Site Soil Remedy,
Omega Chemical Superfund Site



NOTE: Nondetect results are shown at the reporting limit and presented with open symbols in the graph.