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26 October 2016
File No. 36795-003

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 13206-1127

Attention: Glenn May, C.P.G.
Environmental Geologist 2

Subject: Construction Completion Report
Sub-Slab Depressurization Systems – Buildings 7, 7A, and 8
GMCH Lockport BCP Site #932138
200 Upper Mountain Road
Lockport, New York

Dear Mr. May:

Haley & Aldrich of New York (Haley & Aldrich) is pleased to submit this Construction Completion Report (CCR) for the above-referenced site. The CCR presents the implementation of the Sub-Slab Depressurization (SSD) system as an Interim Remedial Measure (IRM) in accordance with the IRM Work Plan approved by the New York State Department of Environmental Conservation (NYSDEC) on December 4, 2012 and response to the October 7, 2016 NYSDEC comments to the Draft CCR submitted to the NYSDEC on July 29, 2015 and includes:

- A brief summary of background information related to the BCP Site investigation and pre-installation activities;
- A description of the IRM Installation; and
- A review of the monitoring activities conducted since the commissioning of the system in August 2013 through December 2014.

Please refer to the references section for a list of documents previously submitted to the NYSDEC that are referenced within this report.

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

Sincerely yours,
HALEY & ALDRICH OF NEW YORK

E. Quinn Lewis, P.E. (NY)
Senior Engineer

Denis M. Conley
Senior Scientist

David J. Hagen
Senior Vice President

Enclosures

c: NYSDOH; Matthew Forcucci
GMCH, LLC; Roy Knapp, Hillie LaDue
GM, LLC; James Hartnett, Kristen Klick, Matthew Chambers
GZA GeoEnvironmental of New York; James Richert, P.G, C.P.G.
Bond, Schoeneck and King LLC; Barry Kogut

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HALEY ALDRICH

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REPORT ON

CONSTRUCTION COMPLETION REPORT
SUB-SLAB DEPRESSURIZATION SYSTEM INSTALLATION
BUILDINGS 7, 7A AND 8
GMCH LOCKPORT BCP SITE #932138
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK

by
Haley & Aldrich of New York
Rochester, New York

on behalf of:
GM Components Holdings, LLC

for
New York State Department of Environmental Conservation
Buffalo, New York

File No. 36795-003
October 2016

Executive Summary

Haley & Aldrich of New York (Haley & Aldrich) prepared this Construction Completion Report (CCR) for the implementation of the Interim Remedial Measure (IRM) at the GMCH Lockport BCP Site #932138 (hereinafter referred to as the "Site") under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

The IRM was completed in accordance with the IRM Work Plan (Haley & Aldrich 2012) approved by the NYSDEC on December 4, 2012. Construction of the IRM was completed in August 2013 in substantial conformance with the approved IRM Work Plan to achieve the objectives of the sub-slab depressurization (SSD) system.

System monitoring and performance testing has been conducted in accordance with the IRM Work Plan requirements and as presented in the DRAFT OM&M Plan (Haley & Aldrich 2014). The monitoring results that have been provided to the NYSDEC in the monthly progress reports, are summarized within this CCR, and have confirmed that the overall system performance meets the objectives of the IRM.

In response to observations obtained during the implementation of the IRM system monitoring program, an additional suction pit was installed within Building 7A in April 2015. A summary of the monitoring activities conducted and the installation details for the extension of the SSD system within Building 7A will be provided in the next annual SSDS operational summary report.

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1. Introduction

The installation of the Sub-Slab Depressurization (SSD) System at the GMCH Lockport BCP Site #932138 was completed as an Interim Remedial Measure (IRM) in accordance with New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (BCA) #C932138-03-10 executed between GMCH and the NYSDEC on May 20, 2010 as amended by Amendment No. 1 dated June 18, 2014 and the IRM Work Plan dated November 9, 2012 and approved by the NYSDEC on December 4, 2012.

1.1 SITE DESCRIPTION

The GMCH Lockport BCP Site is located at the GMCH Lockport facility, 200 Upper Mountain Road in the City of Lockport, Niagara County, New York. The BCP Site includes four (4) buildings that are located in the central and southeastern portion of the GMCH facility.

- Building 7 is an approximately 990,000 square foot manufacturing building and a few smaller facility buildings. Areas around the building include paved areas used for storage, parking, loading docks and a nitrogen generation plant. Building 7 was constructed in phases between 1937 and 1951 and has been utilized for manufacturing since its construction. It is currently the primary manufacturing building at the GMCH facility.

- Building 7A is an approximately 87,000 square foot office and engineering building that houses site security and the medical office. Areas around the building are used as storage and parking. Building 7A was constructed around 1946.

- Building 8 is an approximately 553,000 square foot manufacturing building. The areas not occupied by the buildings include paved areas used as storage, parking and loading docks. Building 8 was constructed in phases between 1960 and 1966 and has been utilized for manufacturing since its construction. The northern portion of the building is currently used for storage of product and unused equipment; manufacturing is on-going in the southern portion of the building.

- Building 10 was constructed as an approximately 453,000 square foot warehouse building. The areas not occupied by the building include paved areas used as storage, parking and loading docks. Building 10 was constructed in two stages; the north end was completed in 1960 and the south end was completed in 1969. Building 10 houses manufacturing operations in the northern portion staffed by GMCH vendor employees and the southern portion is used as a warehouse by GMCH.

The ground surface elevation ranges from 610 feet above mean sea level on the western side to 595 feet in the southeastern portion of the BCP Site. The interior of Buildings 7, 8 and 10 within the BCP Site are level with floor elevations of 615.46 feet above mean sea level. Building 7A is level at an elevation of 607 feet above mean sea level.

The Site is located in the City of Lockport, Niagara County, New York and within Tax Map #108.13-1-1. The Site is situated on an approximately 128.3-acre area bounded by CSX railroad lines and Old Saunders Settlement Road to the south, Upper Mountain Road and additional parking areas to the east, the Lockport Energy Associates (LEA) cogeneration facility and Town of Lockport IDA property to the west, GMCH Building 9 being used for warehousing purposes to the northwest and property owned by Mahle

Behr Troy, Inc., and the Delphi Harrison Thermal Systems site (Site #932113 on the NYSDEC Environmental Site Remediation Database) to the northeast.

Figure 1 presents the BCP Site #932138 and the surrounding area.

1.2 SITE HISTORY

GMCH currently owns and operates the facility for automotive component manufacturing. The facility was initially developed in 1937 on vacant land. The property was developed as part of an expansion of the manufacturing operation, formerly located in downtown Lockport. Manufacturing operations began at the facility along Upper Mountain Road in 1939. General Motors Corporation (GMC) owned and operated the facility until it was conveyed to Delphi Automotive Systems, LLC (Delphi) in December 1998. In June 2009, GMC filed for Chapter 11 bankruptcy protection and became known as Motors Liquidation Company (MLC). A new company was created to purchase certain assets of MLC and the current name of that entity is General Motors LLC (GM). A GM subsidiary, known as GM Components Holdings, LLC, took title from Delphi of a portion of the facility including the area of BCP Site in October 2009.

1.3 ENVIRONMENTAL INVESTIGATION AND REGULATORY HISTORY

A soil vapor intrusion (SVI) investigation was conducted in January 2011 as part of the Remedial Investigation (RI) conducted pursuant to the NYSDEC approved work plan prepared in accordance with the Brownfield Cleanup Agreements (BCA) executed between GMCH and the NYSDEC. The goal of the SVI sampling program was to assess if impacted soil and groundwater identified during the RI, affected the indoor air quality within Buildings 7, 7A and 8; and to confirm the effectiveness of the soil vapor extraction (SVE) system previously installed in Building 10 to mitigate the potential for SVI.

Twenty (20) indoor air (IA), sixteen (16) sub-slab (SS) vapor and three (3) outdoor air (OA) background samples were collected as part of the SVI sampling program. The IA samples were collected from the breathing zone, approximately 4-feet above the floor. The SS vapor samples were collected from under the slab-on-grade flooring system through an approximate ½-inch diameter hole drilled in a competent portion of the concrete floor away from cracks or drains. The SS vapor samples were collected from within 10-feet of their corresponding IA sample locations. The ambient OA samples were collected from an exterior upwind location approximately five feet above the ground surface on the day of this IA/SS vapor sampling event.

Building 7/7A:
Nine (9) IA and SS samples were collected inside Building 7 and two (2) IA and SS from inside Building 7A along with one (1) ambient OA sample.

Building 8:
Five (5) IA and SS samples were collected inside Building 8 along with one (1) ambient OA sample.

Building 10:
On January 18, 2011 two indoor air samples were collected while the existing Building 10 SVE/SSDS was in operation and on January 20, 2011, two (2) IA samples were collected after the SVE/SSDS had been shut down for at least 24 hours prior to the sampling.

All of the SVI samples were analyzed for volatile organic compounds (VOC) using EPA Method TO-15 and the results were compared to the two decision matrices with the New York State Department of Health "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 (NYSDOH Guidance).

- Based on the concentrations of VOC detected in the IA samples and the corresponding SS samples, the NYSDOH Guidance decision matrices indicated that mitigation would be required to minimize the potential for SVI in Buildings 7, 7A and 8.

Based on results on the SVI sampling conducted in Buildings 7, 7A, 8 and 10 as part of the RI, engineering/institutional controls were recommended to mitigate the potential for human or environmental exposure to VOCs from SVI at the BCP Site. To address this recommendation, an IRM was proposed and implemented to install SSD systems within Buildings 7, 7A and 8.

1.4 INTERIM REMEDIAL MEASURE (IRM) OBJECTIVES

The objective of the IRM installation of the SSD systems within Buildings 7, 7A and 8 is to mitigate the potential for VOC impacted soil vapor intrusion (SVI) into the indoor air space. This objective is achieved by creating a negative pressure differential between the interior space of the building and the subsurface beneath the facility floor slab to induce transport of vapor-phase contaminants through a series of soil vapor collection (suction) pits and transfer via interconnected piping for discharge to the atmosphere at the exterior of the buildings.

The SSD system was installed by GMCH in accordance with the approved IRM Work Plan. Installation of the suction pits occurred between December 2012 and January 2013, the mechanical and electrical installation was completed between April 2013 and August 2013 with final SSD System commissioning completed in August 2013. SSD systems installation activities are described in the sections below.

2. Interim Remedial Measure Activities

2.1 PRE-IRM DESIGN ACTIVITIES

During the period from 29 May 2012 through 1 June 2012, three (3) sub-slab suction pits were installed beneath the existing concrete floor slabs, two (2) pits were located within Building 7 and one (1) was located within Building 8. A three (3) horsepower (Hp) explosion proof regenerative blower system was utilized to provide vacuum to each suction pit. Haley & Aldrich and Matrix Environmental conducted a Pilot Test program from 4 June 2012 through 13 June 2012 to evaluate the potential performance of SSD systems that included sub-slab vacuum influence testing, pilot test equipment operational monitoring, and monitoring and analysis of the recovered vapor effluent at each suction pit to determine the level of VOC emissions to assess the potential to emit (PTE) from the SSD systems.

The pilot blower system was equipped with adjustable valves, vacuum and pressure gauges and in-line flow sensors with magnehelic gauges to measure differential pressure. At each test location, the blower system was operated for approximately 48 hours with vacuum monitoring and blower vapor effluent samples collected periodically. The results of the pilot testing were described in the IRM Work Plan (Haley & Aldrich, 2012) submitted to the NYSDEC and were used to develop the basis for an engineering design for installation of an SSD systems within Buildings 7, 7A and 8 at the BCP Site.

2.2 SUB-SLAB DEPRESSURIZATION SYSTEM DESIGN AND INSTALLATION

2.2.1 System Description

As previously referenced, the SSD systems were designed based on the results of the pre-IRM pilot test activities conducted at the three (3) suction pits installed in Buildings 7 and 8 that included the observed sub-slab vacuum responses and a target minimum differential pressure (depressurization) for each system between the indoor building space and sub-slab measurements of 0.002 inches of water (in. W.C.). A total of seventeen (17) suction pits were installed with interconnecting piping routed to (17) 2 Hp, Gast Model R5325A-2 regenerative (vacuum) blowers so that each suction pit has a dedicated blower system. Each blower unit was located within existing rooftop or upper level mechanical rooms, with the exception of the unit associated with the Building 7E area which was installed in a self-contained exterior enclosure system. Equipment and piping locations were confirmed in the field during the design process to accommodate existing facility equipment and operations, minimize potential impact on future facility operations, and allow for SSD System OM&M access. The blower vapor discharge pipes are located so that the discharge points are a minimum of 10-feet from the roof surface and at least 25-feet away from any roof or sidewall openings, or any HVAC intakes or supply registers.

Vacuum gauges were installed on the suction piping for each pit inside the building within view from the floor level and serve as system operational indicating devices. Each blower unit has a dedicated electrical control panel and instrumentation to monitor blower operational parameters such as run hours, vacuum, and vapor flows. In the event of a power outage, the vacuum blower systems are designed to automatically restart once power has been restored. The SSD systems were installed by JW Danforth, Mechanical Contractors and CIR Electrical in accordance with applicable industry mechanical, electrical, building, plumbing, energy and fire prevention codes and standards, and regulations of the City of Lockport. There were no variations from the design during installation and the SSD systems,

which were commissioned in August 2013, have been operating continuously since that time. Appendix A presents the typical system details for each suction pit, transfer piping, and blower unit.

In addition to the suction pits and vacuum blower systems, permanent vacuum monitoring points were installed through the building concrete floor system for monitoring of sub-slab vacuum influence from the SSD systems during operation. The temporary sub-slab vacuum test points previously installed as part of the pre-IRM activities, and used during the pilot testing activities, were converted to permanent sub-slab vacuum monitoring points.

The target depressurization objective for each system was a differential pressure (depressurization) for each system between the indoor building space and sub-slab measurements of 0.002 inches of water (in. W.C.). The sub-slab vacuum (negative pressure) measured beneath the building floor slab achieved via the suction pits and interconnected piping is shown on Figure 2, 3 and 4 for Buildings 7, 7A and 8 respectively for the periods of November 2013 and December 2013.

Table 1 presents a summary of the observed vacuum readings collected from the suction pits and blower systems and Table 2 presents the range of manometers readings for the sub-slab vacuum monitoring points since the start-up of the SSD systems in August 2013 through December 2014.

2.3 POST INSTALLATION SAMPLING

Following the installation of the SSD systems, periodic air monitoring using a photoionization detector (PID) from each vacuum blower system was used to evaluate the potential emissions. An effluent discharge sample was collected from the three vacuum blowers that exhibited the highest PID readings and submitted for the analysis of VOCs by EPA Method 8260B. The effluent discharge sample results are summarized on Table 3 and the analytical laboratory reports are provided in Appendix B.

2.4 CONFIRMATION VACUUM TESTING

As presented in the DRAFT OM&M plan, the performance criteria for the SSD systems include sustained continuous vacuum blower operations, periodic sub-slab vacuum monitoring, and monthly readings of the suction pit piping vacuum gauges. Following installation of the SSD systems, blower and sub-slab vacuum readings were obtained quarterly from September 2013 through December 2014.

Based on the sub-slab vacuum readings collected to date, the SSD systems are operating as designed and achieving the designed vacuum criteria of 0.002 in. W.C. of differential pressure within the areas of concern identified during the RI for the BCP Site.

2.5 AIR GUIDE-1 ANALYSIS

A preliminary potential emission analysis (using NYSDEC Air Guide -1 calculations) was conducted with the effluent sampling data collected during the Pre-IRM Pilot Testing activities. An updated Air Guide-1 analysis, using the results of the post-installation PID readings and effluent discharge samples collected from the blower units was performed and, is included in Appendix C.

The updated analysis performed using the post-installation sample results confirms conformance of SSD system emissions with the Air Guide-1 Short Term Guideline Concentrations for the VOC detected.

2.6 POST-INSTALLATION INDOOR AIR SAMPLING

Indoor air samples were collected on March 28, 2014 while the SSD systems were in full operation to evaluate the indoor air quality within each Building. The results of the sampling program were provided in the report Summary of Indoor Air Testing Results, GMCH Lockport Facility – Bldgs. 7, 7A, 8 BCP Sites #C932138/C932139 (Haley & Aldrich May 2014). The indoor air sample results are summarized on Table 4 and the analytical laboratory reports are provided in Appendix B.

2.7 WASTE MANAGEMENT

Excavated soil and concrete debris generated during the installation of the suction pits and pipe trenches were containerized and transported by GMCH personnel to satellite collection areas designated within Buildings 7 and 8. The soil and solid waste was managed by GMCH and disposed at an off-site waste disposal facility.

3. Governing Documents and Regulatory Activities

3.1 HEALTH & SAFETY PLAN

All remedial work performed under this IRM was conducted in accordance with the Site Specific Health and Safety Plan (HASP) and the IRM Work Plan approved by the NYSDEC on December 9, 2012.

3.2 QUALITY ASSURANCE/QUALITY CONTROL

Post-installation indoor air confirmation samples collected as part of the IRM were analyzed at a New York State Department of Health (NYSDOH) ELAP certified laboratory for analysis of VOCs via EPA Method TO-15. The indoor air results were reported in NYSDEC Analytical Services Protocol (ASP) Category B format data deliverables.

The results presented in the laboratory report were found to be compliant with the data quality objectives for the project and usable. A copy of the Data Usability Summary Report (DUSR) prepared by Conestoga Rovers Associates is provided in Appendix D.

4. Operation, Maintenance and Monitoring Plan

A DRAFT Operation, Maintenance and Monitoring (OM&M) plan that describes ongoing monitoring, operation, and maintenance of the SSD systems was prepared by Haley & Aldrich and submitted to the NYSDEC on February 4, 2014. The OM&M plan includes photographs of the key components of the installed SSD systems and example monitoring data collection forms used for the evaluation of each SSD system performance.

Monitoring of the suction piping vacuum gauges is conducted monthly and sub-slab vacuum and blower system monitoring is performed quarterly. The SSD systems monitoring data are reviewed annually by a New York State Professional Engineer (NYSPE) to evaluate overall system performance.

A Site Management Plan (SMP) will be prepared to incorporate ongoing operation, maintenance, and monitoring requirements for the SSD systems which will be a component of the vapor mitigation remedy implemented at the BCP Site. The final SMP will provide for long-term management of the SSD systems as part of the overall site remedy to be implemented at the BCP Site.

5. Engineer's Certification

I, Edmund Quinn Lewis certify that I am currently a NYS registered professional engineer, I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Interim Remedial Measure – Sub-Slab Depressurization System Installation was implemented and that all construction activities were completed in substantial conformance with the DER-approved *Interim Remedial Measure Work Plan dated 9 November 2012.*

087372	10/26/16	
NYS Professional Engineer #	Date	Signature

It is a violation of New York State Education Law Article 145 for any person, unless he or she is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

HALEY ALDRICH

References

1. New York State Department of Environmental Conservation, (2010). Brownfield Cleanup Agreements, dated 17 March 2010 Buildings 7, 8 and 10.

2. New York State Department of Environmental Conservation, (2014) Brownfield Cleanup Agreement, dated 14 June 2014 Consolidated Site #932138, Buildings 7, 8 and 10.

3. Haley & Aldrich of New York, (2012). Sub-Slab Depressurization Systems Pilot Testing Report and Interim Remedial Measures (IRM) Work Plan, Buildings 7 and 8 BCP Sites #C932138/C032139, Upper Mountain Road, Lockport, New York, 9 November 2012.

4. New York State Department of Environmental Conservation, (2010). "DER-10 Technical Guidance for Site Investigation and Remediation". Division of Environmental Remediation, May 2010.

5. New York State Department of Environmental Conservation, (2006). "6 NYCRR Part 375 Environmental Remediation Programs". Division of Environmental Remediation, December, 2006.

6. New York State Department of Health, (2006). "Guidance for Evaluating Soil Vapor Intrusion in the State of New York". Center for Environmental Health, Bureau of Environmental Exposure Investigation, October 2006.

7. Haley & Aldrich of New York, (2011). "Remedial Investigation Report – GM Components Holdings, LLC, 200 Upper Mountain Road – Building 7, Lockport, New York, BCP Site #C932138", November 2011.

8. Haley & Aldrich of New York, (2011). "Remedial Investigation Report – GM Components Holdings, LLC, 200 Upper Mountain Road – Building 8, Lockport, New York, BCP Site #C932139", November 2011.

9. Haley & Aldrich of New York, (2011). "Remedial Investigation Report – GM Components Holdings, LLC, 200 Upper Mountain Road – Building 10, Lockport, New York, BCP Site #C932140", November 2011.

10. Haley & Aldrich of New York, (2012). "Sub Slab Depressurization Systems Pilot Testing Report – Interim Remedial Measures (IRM) Work Plan, BCP Sites #C932138/C932139, 200 Upper Mountain Road, Lockport, NY", November 2012

11. Haley & Aldrich of New York, (2014). "Summary of Indoor Air Testing Results, GMCH Lockport Facility – Bldgs. 7, 7A, 8 BCP Sites #C932138/C932139, 200 Upper Mountain Road, Lockport, NY", May 2014.

12. Haley & Aldrich of New York, (2014). "DRAFT Operations, Maintenance and Monitoring Plan, Bldgs. 7/7A, and 8 Sub-slab Depressurization Systems, GM Components Holdings, 200 Upper Mountain Road, Lockport, NY 14094", February 2014.

Table 1
SSD System Log Sheet: Operating Data - Blower and Suction Pits
GMCH Lockport BCP Site #932138
August 2013 - December 2014

Bldg Location - Fan/Pit Tag	Suction Pit Location (Col No.)	Fan Location	Suction Pit		Vacuum Blower				
			Vacuum ("W.C.)	Temp (°F)	Filter Inlet Vacuum ("W.C.)	Blower Inlet Vacuum ("W.C.)	Filter Inlet Temp (°F)	Blower Outlet Temp (°F) - see note 2	Blower Outlet Vapor Phase PID Reading (ppm)
7W-1	L-49	Penthouse 9	29-38	76-88	31-46	35-45	77-90	124-142	1.8 - 4.9
7W-2	G-61	Penthouse 21	17-21	72-84	21-24	22-33	75-86	96-134	2.0 - 20.0
7W-3	C-52	Penthouse 9	18-42	76-90	28-60	36-60	77-90	124-156	3.0 - 21.9
7W-4	E-38	3rd Flr - Mech Rm	12-21	66-84	17-30	25-37	82-95	118-134	0.6 - 6.2
7W-5	E-27	3rd Flr - Mech Rm	37-42	78-90	36-45	40-50	83-96	120-148	0.9 - 43.4
7W-6	J-33	3rd Flr - Mech Rm	35-40	72-84	28-44	30-48	78-100	132-148	0.7 - 38.4
7W-7	N-41	Penthouse 4	36-38	80-90	35-41	41-47	80-92	122-140	1.5 - 8.6
7E-1	HH-33	Roof Area	14-19	76-84	12-14	14-26	74-90	96-122	4.2 - 12.5
7A-1	Eng. Training - Storage Rm	7A Mech Rm	16-40	72-80	35-62	37-62	72-84	120-160	0.0 - 2.6
7A-2	Financial Area - Storage Rm	7A Mech Rm	10-18	72-80	22-50	30-56	70-78	98-130	0.0 - 1.0
8-1	HH-87	Penthouse 14	52-60	68-86	45-56	50-60	70-92	126-160	0.9 - 2.6
8-2	PP-89	HVAC Mech Rm	32-39	62-82	35-42	42-49	70-90	110-136	1.1 - 3.7
8-3	HH-91	Penthouse 15	54-56	66-84	54-55	54-60	70-92	133-160	87.4 - 375.0
8-4	BB-87	Penthouse 9	41-59	62-82	38-57	41-59	72-102	105-154	0.9 - 2.5
8-5	DD-81	Penthouse 14	50-56	69-88	44-56	45-59	70-92	129-160	1.1 - 3.2
8-6	FF-83	Penthouse 14	26-31	64-90	25-45	28-42	72-92	109-136	7.2 - 13.0
8-7	MM-85	Penthouse 14	48-58	60-82	48-58	52-58	68-96	119-150	0.7 - 2.0

Nomenclature

"W.C. inches water column

°F degrees Fahrenheit

1. Historical operating data collected from August 2013 through January 2015
2. If reading is > 160 deg F adjust vacuum breaker to provide inlet air to reduce to 160 deg F or less.

Table 2

SSD System - Sub Slab Vacuum Monitoring Data

GMCH Lockport BCP Site #932138

August 2013 - December 2014

Bldg 7- West		Bldg 7- East		Bldg 7A		Bldg 8	
Sub Slab Monitoring Point ID	Vacuum Reading (in.w.c.)	Sub Slab Monitoring Point ID	Vacuum Reading (in.w.c.)	Sub Slab Monitoring Point ID	Vacuum Reading (in.w.c.)	Sub Slab Monitoring Point ID	Vacuum Reading (in.w.c.)
SMP-7W-1	0.020 to *0.000*	**SMP-7E-1**	0.033 to 0.000	**SMP-7A-1**	1.380 to 0.042	SMP-B8-1A	0.042 to 0.017
SMP-7W-2	0.010 to **+0.003**	**SMP-7E-3**	0.030 to *0.0001*	**SMP-7A-2**	0.040 to **+0.028**	SMP-B8-2	0.650 to 0.061
SMP-7W-2A	0.049 to **+0.022**	**SMP-7E-4**	0.017 to **+0.005**	**SMP-7A-3**	0.173 to 0.076	SMP-B8-3	2.2 to 0.057
SMP-7W-4	0.052 to *0.000*	**SMP-7E-6**	0.024 to 0.004	**SMP-7A-4**	0.100 to 0.017	SMP-B8-4	0.055 to *0.000*
SMP-7W-5A	0.013 to **+0.018**	**SMP-7E-7A**	0.015 to *0.000*	**SMP-7A-5**	0.025 to **+0.014**	SMP-B8-7	0.187 to 0.010
SMP-7W-6	0.142 to 0.083	**SMP-7E-8A**	0.025 to *0.000*	**SMP-7A-6**	0.850 to 0.017	SMP-B8-9	0.025 to *0.0001*
SMP-7W-7	0.130 to **+0.007**			**SMP-7A-7**	0.015 to **+0.004**	SMP-B8-10	0.011 to **+0.002**
SMP-7W-9	0.055 to *0.0001*			**SMP-7A-8**	0.020 to **+0.023**	SMP-B8-11	0.020 to *0.000*
SMP-7W-11A	0.011 to *0.000*			**SMP-7A-9**	0.011 to **+0.012**	SMP-B8-13A	0.462 to 0.107
SMP-7W-12B	0.010 to *0.0001*			**SMP-7A-12**	0.022 to **+0.006**		
SMP-7W-13	0.369 to - 0.002			**SMP-7A-13**	0.100 to **+0.187**		
				SMP-7A-13A	0.028 to **+0.011**		
				SMP-7A-14	0.004 to **+0.011**		

Notes:

1. Historical operating data from August 2013 through January 2015

2. Vacuum readings are presented are differential vacuum pressure measured using a micro manometer below the building floor slab.

3. **+0.005** - Indicates a positive differential pressure measured below the building floor slab.

Table 3

Effluent Discharge Monitoring
GMCH Lockport BCP Site #932138

Parameter Detected (mg/M^3)	Sample Date	Vinyl Chloride	Trichloroethene	Tetrachloroethene	Cis 1,2-Dichloroethene
B7W-SCP-3 EFF	25-Jul-14	<2.0	**5.29**	**13.9**	<2.0
B8-SCP-3 EFF	25-Jul-14	<2.0	**358**	<2.0	**13.8**
B8-SCP-6 EFF	25-Jul-14	<2.0	**12.6**	**<2.0**	**3.57**

1. Analysis performed by Paradigm Environmental Services Inc., Rochester , New York Laboratory using EPA Method 8260B.
2. Effluent Samples collected by GZA Environmental, Inc. within Tedlar Samplng Bags directly from the vacuum blower discharge discharge

Table 4

Indoor Air Quality Monitoring Data
GMCH Lockport BCP Site #932138
March 2014

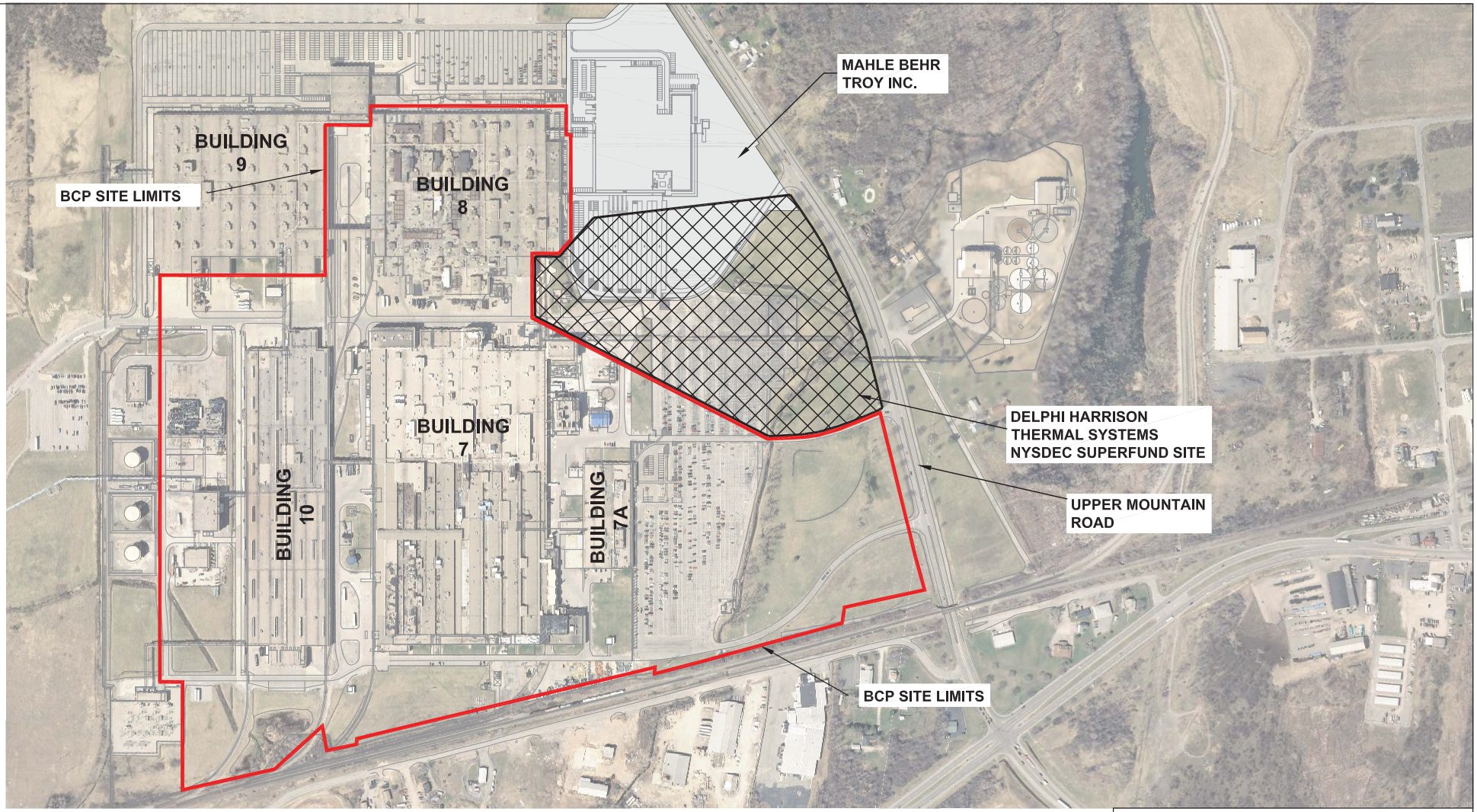
Parameter Detected (ug/M^3)	Trichloroethene	Tetrachloroethene	Cis 1,2-Dichloroethene
Indoor Air Guidance Value	5[1]	30[2]	NGV
Bldg 8-IA-1	**3.5**	1.4 U	**1.4**
Bldg 8-IA-2	**5.4**	1.4 U	**1.6**
Bldg 8-IA-3	**8.4**	**2.6**	**2.2**
Bldg 7A-IA-1	0.20 U	0.20 U	0.20 U
Bldg 7W-IA-1	1.1 U	**1.3**	0.79 U
Bldg 7W-IA-2	**1.3**	**2**	0.79 U
Bldg 7W-IA-3	1.1 U	**3.2**	0.79 U
Bldg 7W-IA-4	3.2 U	4.1 U	2.4 U
Bldg 7E-IA-1	2.1 U	**3.3**	**5.8**

[1] New York State Department of Health, (2006). Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Center for Environmental Health, BEEI, October 2006.

[2] New York State Department of Health, (2013). Tetrachloroethene (PERC) Indoor and Outdoor Air Fact Sheet. Bureau of Toxic Substance Assessment, September 2013.

[3] NGV - No Guidance Value provided.

[4] U - Target Compound not detected



NOTES:

1. THIS FIGURE IS BASED ON THE DRAWING PROVIDED BY DELPHI THERMAL AND INTERIOR SYSTEMS, DATED SEPTEMBER 2007.
2. AERIAL IMAGERY COURTESY OF NYS GIS CLEARINGHOUSE, 2008.

N

0 400 800
SCALE IN FEET

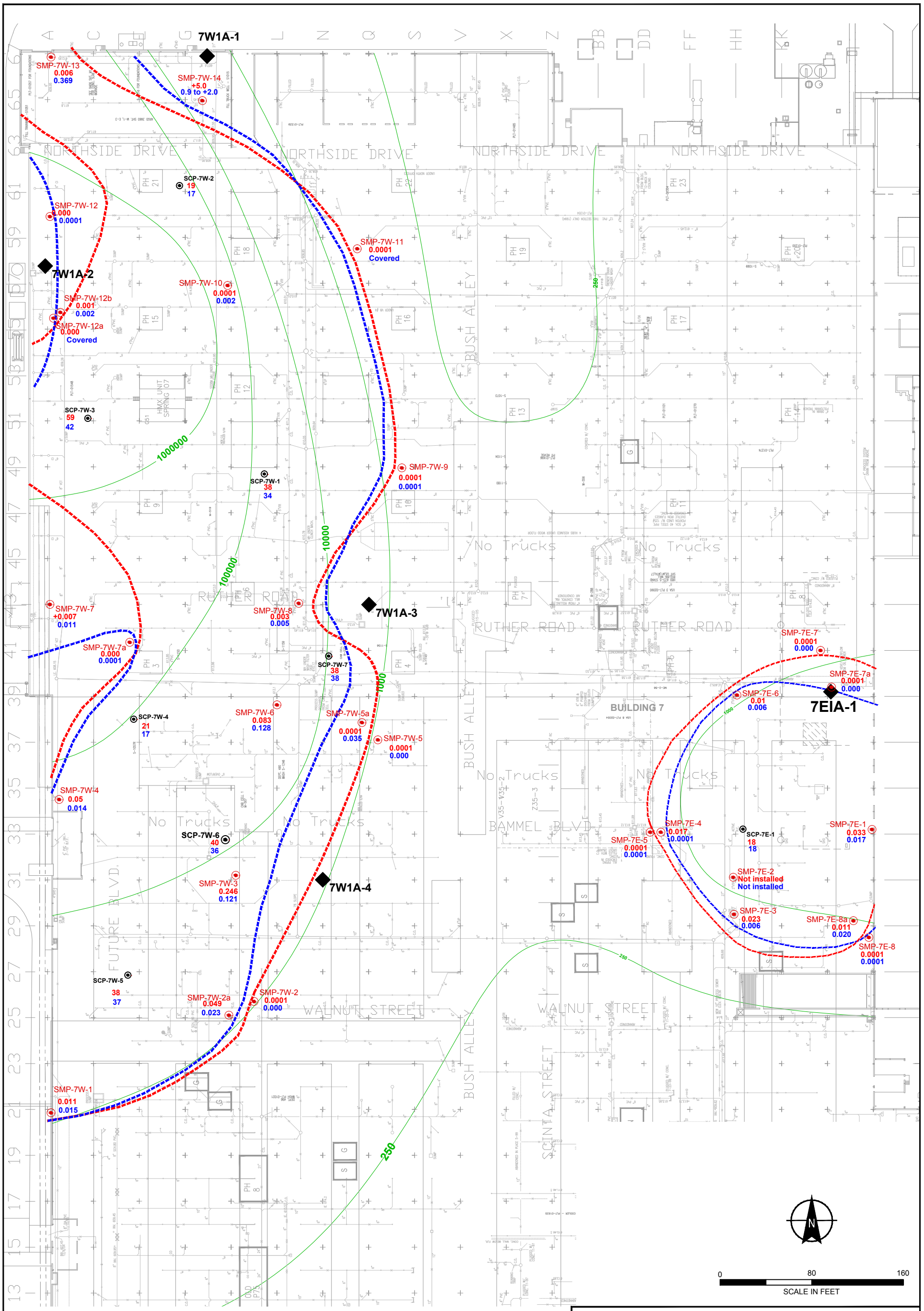
HALEY ALDRICH

GM COMPONENTS HOLDINGS, LLC
LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK

SITE PLAN

SCALE: AS SHOWN
OCTOBER 2016

FIGURE 1



LEGEND

- ESTIMATED CONTOUR 0.002" W.C. VAC. DATA COLLECTED ON 11/1/13
- ESTIMATED CONTOUR 0.002" W.C. VAC. DATA COLLECTED ON 12/30/13
- 1000 — ESTIMATED SUB-SLAB VAPOR CONCENTRATIONS (ug/m³)
- SMP-7W-1 (0.011 / 0.015) — SUB-SLAB MONITORING POINT W/ VACUUM DATA (" W.C.)
- SCP-7W-3 (38 / 34) — SUCTION PIT W/ VACUUM DATA (" W.C.)
- ◆ 7W1A-1 — INDOOR AIR SAMPLE LOCATION

NOTE

ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

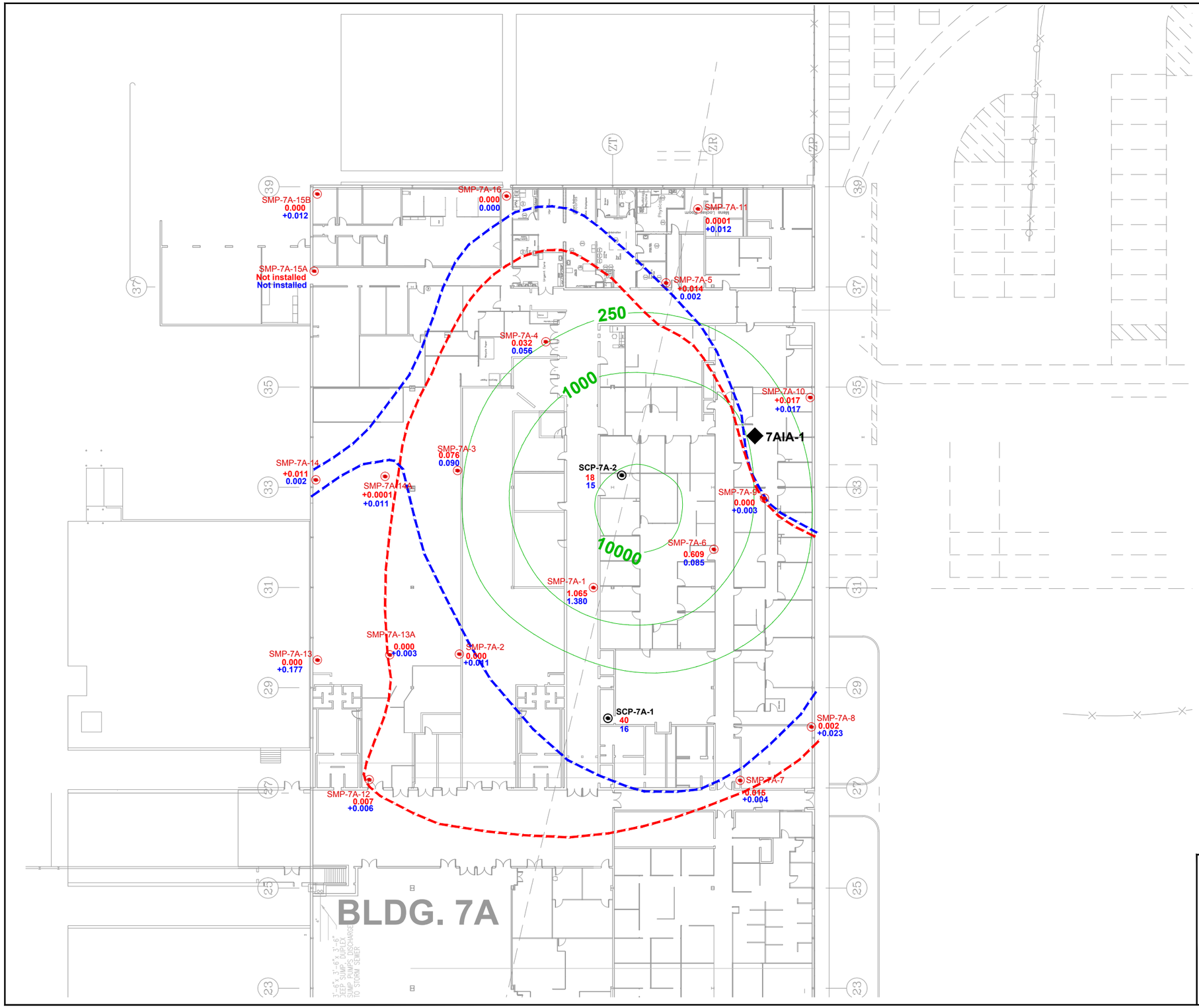
HALEY ALDRICH

GMCH LOCKPORT FACILITY
LOCKPORT, NEW YORK

OBSERVED VACUUM INFLUENCE - BUILDING 7

SCALE: AS SHOWN
OCTOBER 2016

FIGURE 2



LEGEND

- ESTIMATED CONTOUR 0.002" W.C. VAC. DATA COLLECTED ON 11/1/13
- ESTIMATED CONTOUR 0.002" W.C. VAC. DATA COLLECTED ON 12/30/13
- 1000 — ESTIMATED SUB-SLAB VAPOR CONCENTRATIONS (ug/m³)
- SMP-7A-2 0.000 +0.011 — SUB-SLAB MONITORING POINT W/ VACUUM DATA (" W.C.)
- SCP-7A-2 18 15 — SUCTION PIT W/ VACUUM DATA (" W.C.)
- 7AIA-1 — INDOOR AIR SAMPLE LOCATION

NOTE

ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

N

0 40 80

SCALE IN FEET

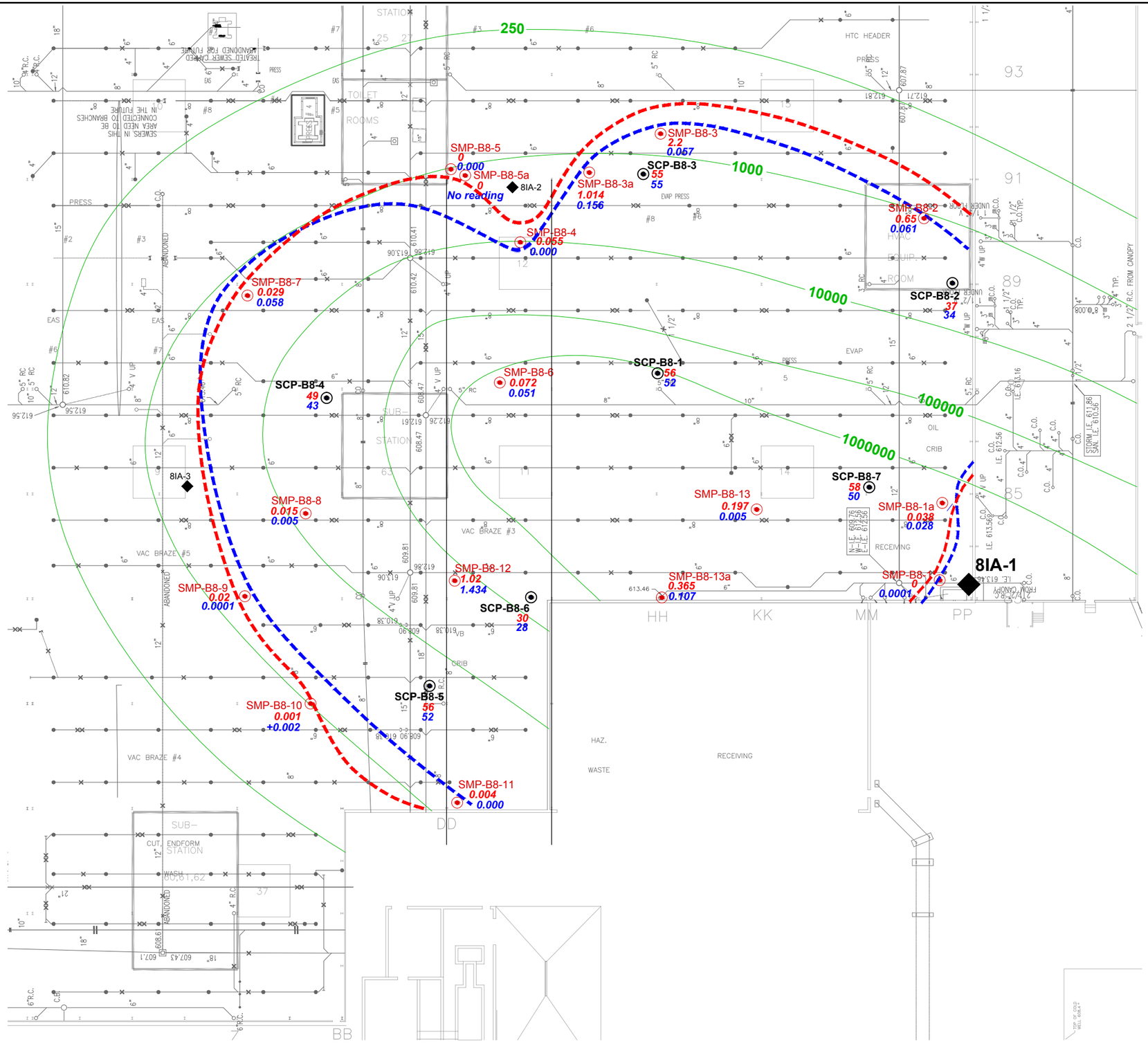
HALEY ALDRICH

GMCH LOCKPORT FACILITY
LOCKPORT, NEW YORK

OBSERVED VACUUM INFLUENCE - BUILDING 7A

SCALE: AS SHOWN
OCTOBER 2016

FIGURE 3



LEGEND

- ESTIMATED CONTOUR 0.002" W.C. VAC. DATA COLLECTED ON 11/1/13
- ESTIMATED CONTOUR 0.002" W.C. VAC. DATA COLLECTED ON 12/30/13
- 1000 — ESTIMATED SUB-SLAB VAPOR CONCENTRATIONS (ug/m³)
- SMP-B8-11 / 0 / 0.0001 — SUB-SLAB MONITORING POINT W/VACUUM DATA (" W.C.)
- SCP-B8-5 / 56 / 52 — SUCTION PIT W/ VACUUM DATA (" W.C.)
- 8IA-1 — INDOOR AIR SAMPLE, COLLECTED 28 MARCH 2014

N

0 40 80

SCALE IN FEET

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LOCKPORT, NEW YORK

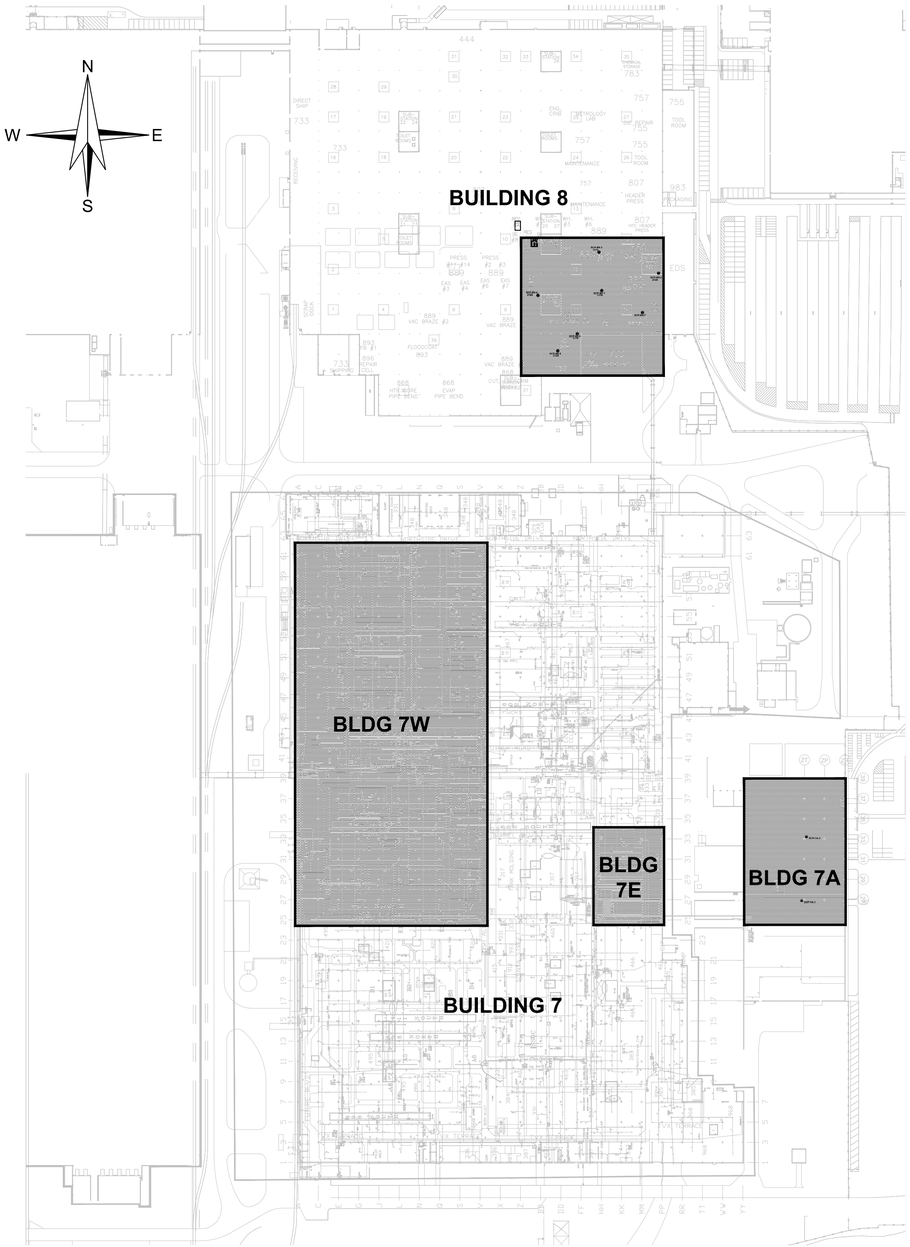
OBSERVED VACUUM INFLUENCE - BUILDING 8

SCALE: AS SHOWN
OCTOBER 2016

FIGURE 4

APPENDIX A

Sub Slab Depressurization System Details



SITE KEY

0 150 300 450 600

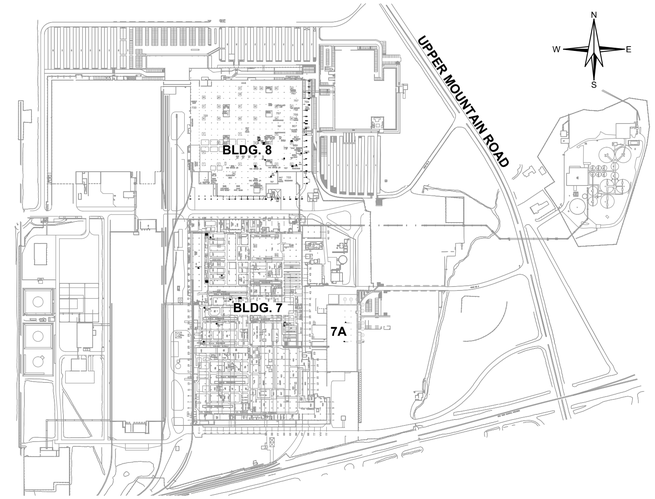
SCALE IN FEET

LEGEND:

DENOTES GENERAL AREAS OF WORK

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, CODES, REQUIREMENTS AND STANDARDS, AS WELL AS INDUSTRY BASED STANDARDS, INCLUDING REVISIONS TO DATE OF CONTRACT OR REVISIONS TO THE CONTRACT AND ALL PLANT STANDARDS.
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, APPURTENANCES, AND SUPERVISION TO COMPLETE THE WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND LOCATIONS SHOWN PRIOR TO COMMENCING WORK. ANY CONFLICTS WITH DETAILS AND NOTES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OR OWNER'S REPRESENTATIVE IN WRITING.
4. DETAILS TAKE PRECEDENCE OVER GENERAL DRAWINGS. WHERE NOTES CONFLICT WITH ANY DRAWING, THE MOST RESTRICTIVE SHALL APPLY. WHERE CONFLICTS EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING. NO CHANGES OR ADDITIONS TO THE SCOPE OF WORK DEPICTED HEREIN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. CONTRACTOR SHALL OBTAIN ANY/ALL NECESSARY PERMITS, INCLUDING ELECTRICAL AND PLANT SPECIFIC PERMITS, AND SCHEDULE ANY REQUIRED INSPECTIONS. THE CONTRACTOR SHALL MAINTAIN COPIES OF ANY PERMITS AT THE JOB SITE FOR INSPECTION AND PROVIDE A COPY TO THE ENGINEER PRIOR TO BEGINNING WORK.
6. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY UTILITIES DAMAGED BY THE CONTRACTOR, AND PROVIDE AT ITS EXPENSE FOR SERVICE CONTINUATION DURING REPAIRS. DAMAGE TO FACILITY DURING WORK SHALL BE REPAIRED BY CONTRACTOR AT ITS OWN EXPENSE.
7. THE CONTRACTOR SHALL MAINTAIN AN ORDERLY AND CLEAN JOB SITE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION RELATED TRASH, DEBRIS, AND EXCESS MATERIALS AT THE END OF EACH WORK SHIFT.
8. REFER TO THE PROJECT SPECIFICATIONS.



KEY PLAN

DRAWING INDEX

DRAWING NO.	SHEET NO.	REV.	DESCRIPTION
T-1	1	2	TITLE SHEET
P-1	2	2	PIPING PLAN - BUILDING 7E AND 7W
P-2	3	3	PIPING PLAN - BUILDING 7A
P-3	4	2	PIPING PLAN - BUILDING 8
M-1	5	2	MECHANICAL & PIPING DETAILS
E-1	6	2	ELECTRICAL & CONTROL DETAILS

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Project No.:	36795-027/029
Scale:	AS SHOWN
Date:	23 JANUARY 2013
Drawn By:	PGL
Designed By:	EQL
Checked By:	DJC
Approved By:	EQL
Stamp:	

Rev.	Description	By	Date
2	AS-BUILTS	H&A	09/30/13
1	ISSUE FOR CONSTRUCTION	H&A	03/25/13
B	100% CD - ISSUE FOR BID	H&A	02/11/13
A	95% CD - ISSUE FOR REVIEW	H&A	02/01/13

SUB-SLAB DEPRESSURIZATION SYSTEM
GMCH
LOCKPORT, NEW YORK

TITLE SHEET

Sheet: 1 OF 6

T1 2

CADD File Data:
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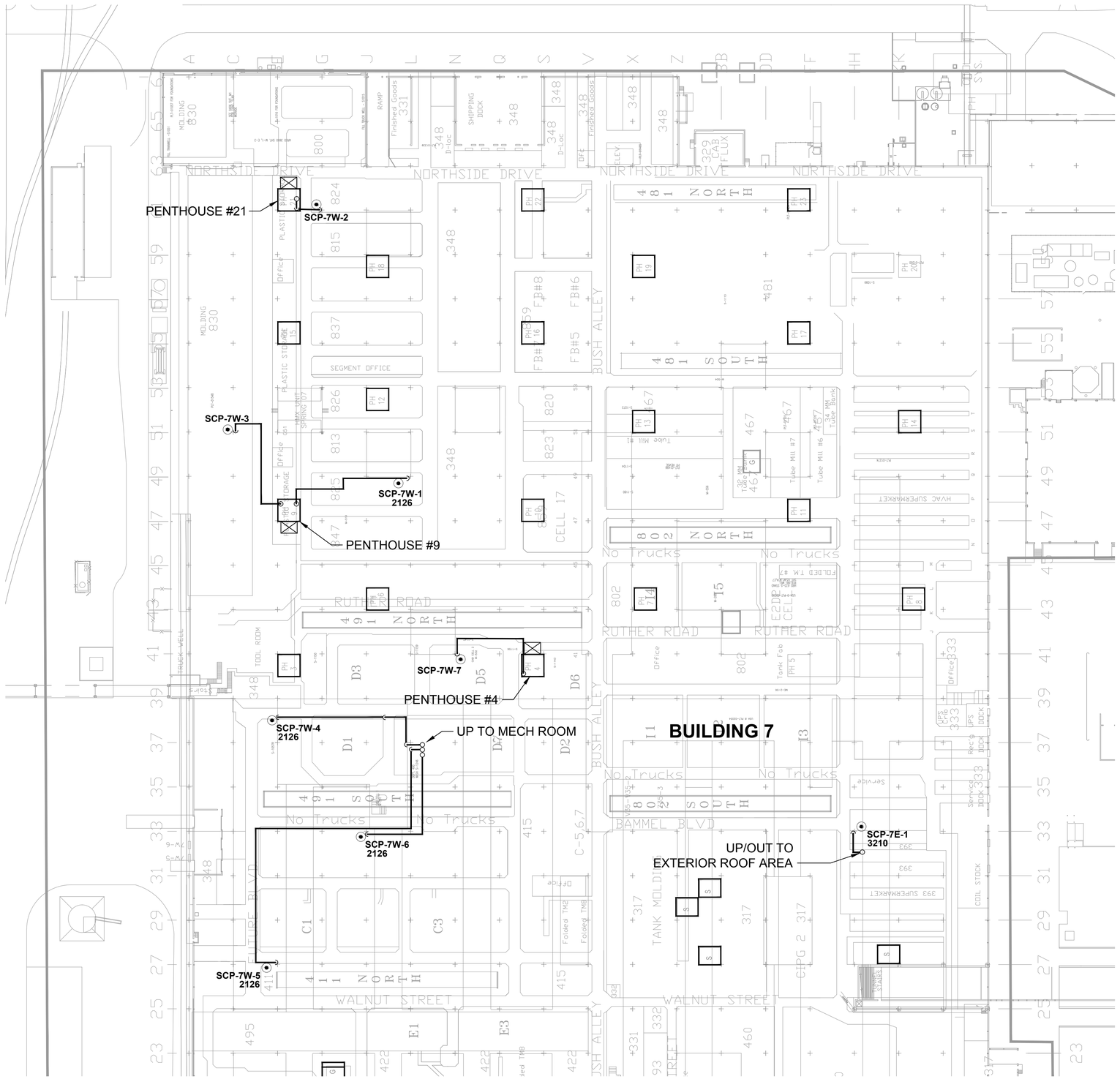
Operator Name: LIBBY PAT
Layout: T-1



LEGEND:

- SSDS SUCTION PIT
- DENOTES GENERAL ROUTING OF 4" SCH. 40 SSDS PIPING FROM SUCTION PITS TO FANS
  - PIPE TURNED DOWN
  - PIPE - SIZE PER DETAIL ON DWG M-1
  - PIPE TURNED UP
- AIR INTAKE AREA

NOTES:

1. REFER TO PROJECT SPECIFICATIONS.
2. SITE PLAN INFORMATION TAKEN FROM EXISTING PLANT DRAWINGS AND CAD FILES.

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Approved By:	EQL
Stamp:	

Rev.	Description	By	Date
2	AS-BUILTS	H&A	09/30/13
1	ISSUE FOR CONSTRUCTION	H&A	03/25/13
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A	95% CD - ISSUE FOR REVIEW	H&A	02/01/13

SUB-SLAB DEPRESSURIZATION SYSTEM
GMCH
LOCKPORT, NEW YORK

PIPING PLAN - BUILDING 7E AND 7W

Sheet: 2 OF 6

P-1 2

N W E S

0 50 100 150 200
SCALE IN FEET

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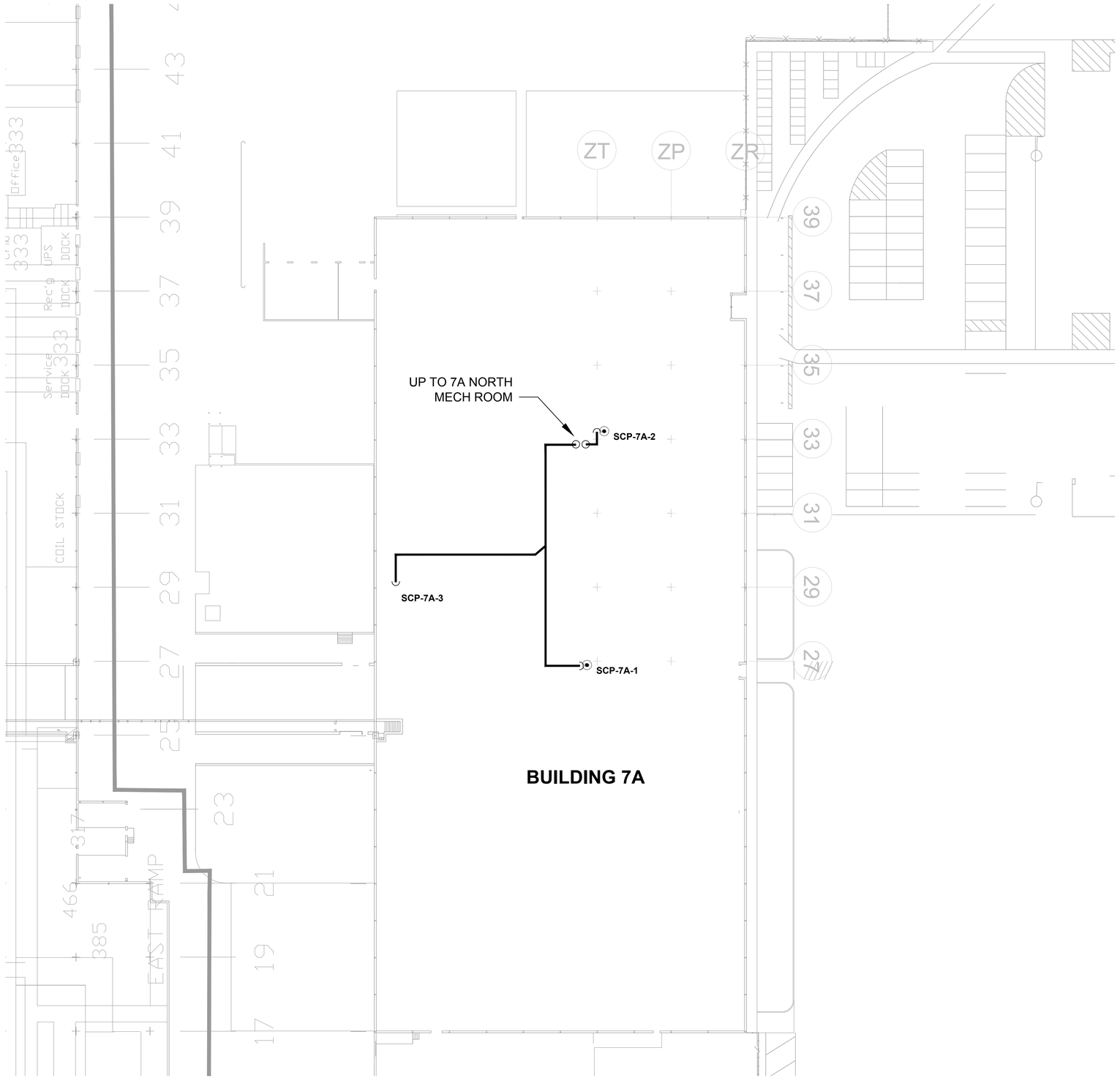
Operator Name: LIBBY, PAT
Layout: P-1



LEGEND:

- SSDS SUCTION PIT
- DENOTES GENERAL ROUTING OF 4" SCH 40 SSDS PIPING FROM SUCTION PITS TO FANS
- PIPE TURNED DOWN
- PIPE - SIZE PER DETAIL ON DWG M-1
- PIPE TURNED UP

NOTES:

1. REFER TO PROJECT SPECIFICATIONS.
2. SITE PLAN INFORMATION TAKEN FROM EXISTING PLANT DRAWINGS AND CAD FILES.
3. CORE DRILL AND SEAL AS REQUIRED IN THE EXISTING MECHANICAL ROOM CONCRETE FLOOR TO ROUTE PIPING FROM EACH PIT INTO THE MECHANICAL ROOM.
4. ROUTE PIPING FROM LOCATION SCP-7A-1 IN THE SPACE ABOVE THE DROP CEILING AREA OF THE MAIN CORRIDOR JUST WEST OF THE STORAGE ROOM AREA TO THE MECHANICAL ROOM TO MINIMIZE DISRUPTION OF THE AREAS ABOVE THE OFFICES SPACES.

N
W E
S

0 30 60 90 120
SCALE IN FEET

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Date:	23 JANUARY 2013
Drawn By:	PGL
Designed By:	EQL
Checked By:	DJC
Approved By:	EQL
Stamp:	

Rev.	Description	By	Date
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2	AS-BUILTS	H&A	09/30/13
1	ISSUE FOR CONSTRUCTION	H&A	03/25/13
B	100% CD - ISSUE FOR BID	H&A	02/11/13
A	95% CD - ISSUE FOR REVIEW	H&A	02/01/13

SUB-SLAB DEPRESSURIZATION SYSTEM
GMCH
LOCKPORT, NEW YORK

PIPING PLAN - BUILDING 7A

Sheet: 3 OF 6

P-2 3

CADD File Data:
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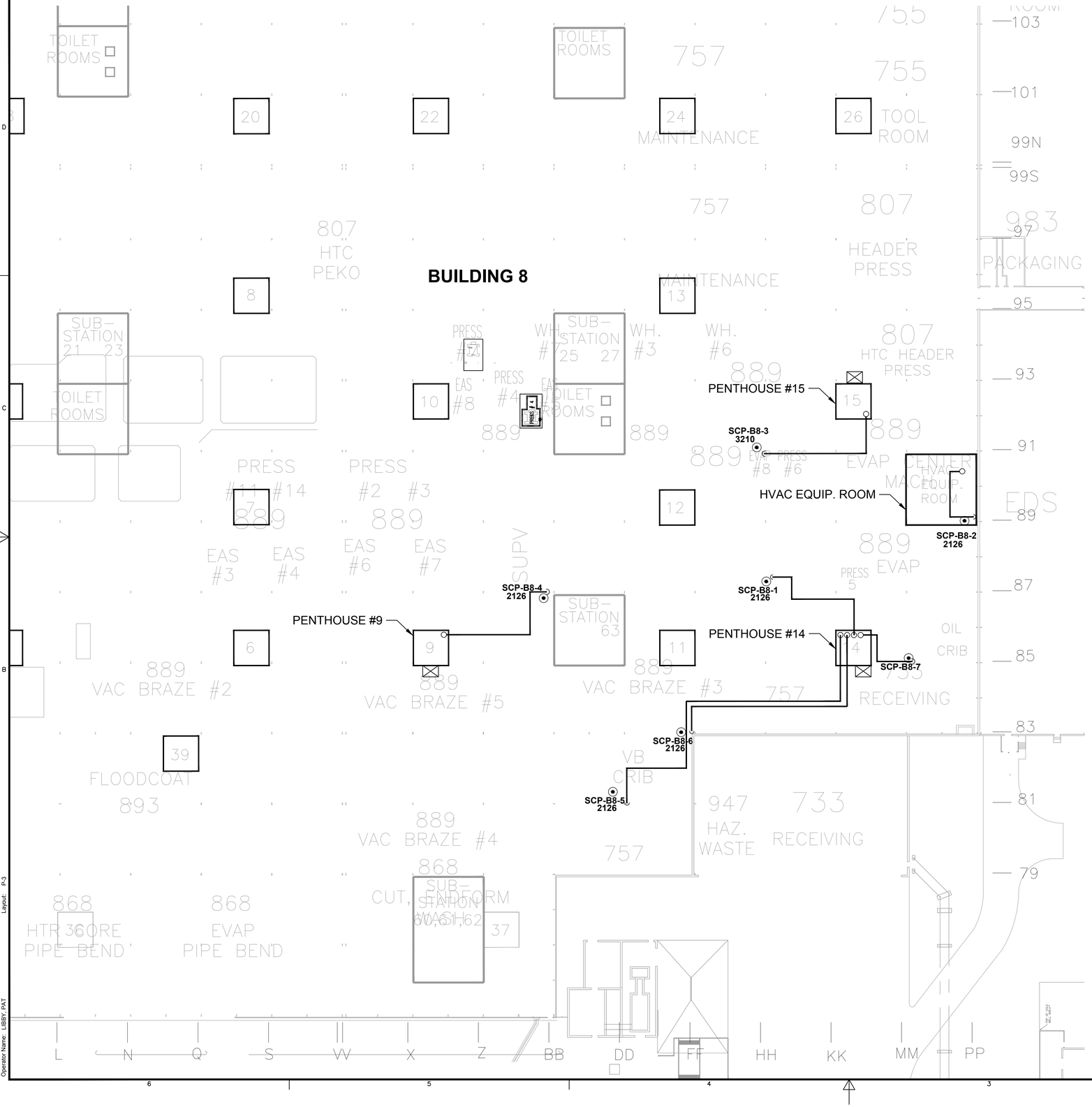
Layout: P-2



LEGEND:

- SSDS SUCTION PIT
- DENOTES GENERAL ROUTING OF SCH 40 SSDS PIPING FROM SUCTION PITS TO FANS
- PIPE TURNED DOWN
- PIPE - SIZE PER DETAIL ON DWG M-1
- PIPE TURNED UP
- AIR INTAKE AREA

NOTES:

1. REFER TO PROJECT SPECIFICATIONS.
2. SITE PLAN INFORMATION TAKEN FROM EXISTING PLANT DRAWINGS AND CAD FILES.

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Checked By:	DJC
Approved By:	EQL
Stamp:	

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B	100% CD - ISSUE FOR BID	H&A	02/11/13
A	95% CD - ISSUE FOR REVIEW	H&A	02/01/13

SUB-SLAB DEPRESSURIZATION SYSTEM
GMCH
LOCKPORT, NEW YORK

PIPING PLAN - BUILDING 8

Sheet: 4 OF 6

P-3 2

N W E S

0 30 60 90 120
SCALE IN FEET

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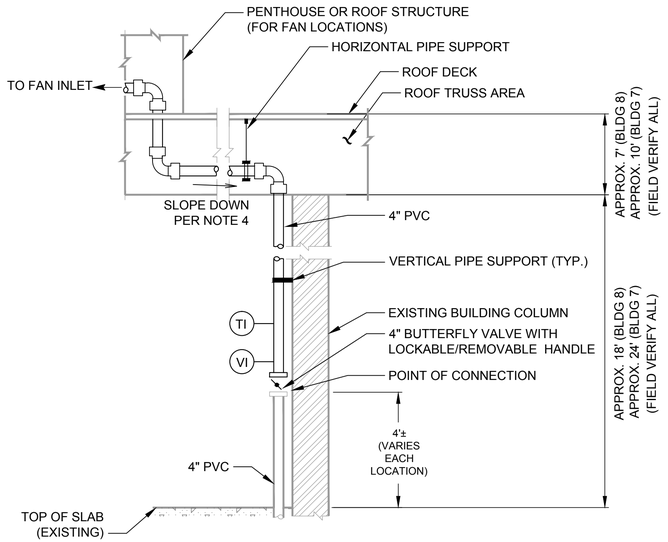
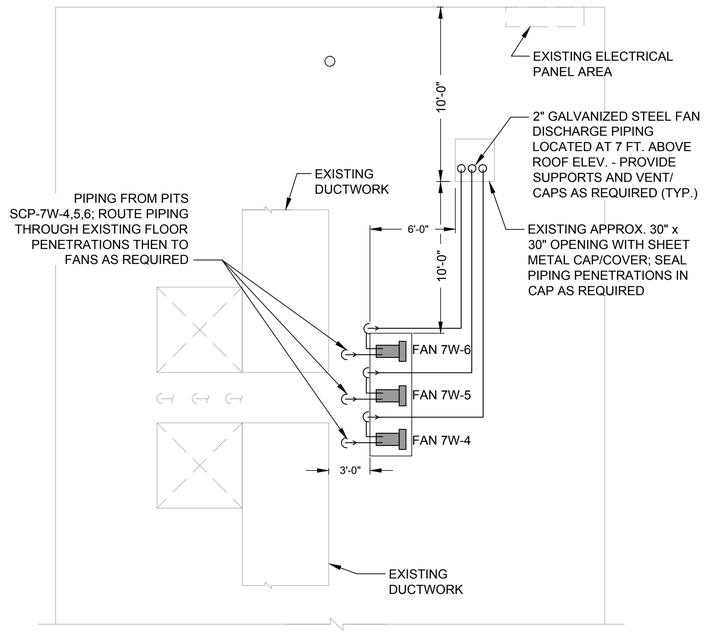


1 **SSDS VERTICAL/ HORIZONTAL PIPING ELEVATION**
NTS



3 **FAN PIPING - PLAN**
(FANS 4,5,6 - BLDG 7W)
NTS

NOTES:

1. MECH. ROOM F.F. ELEV. APPROX. 30 FEET ABOVE PLANT FLOOR.
2. ROOF ELEV. APPROX. 12 FEET ABOVE MECH. ROOM FLOOR
3. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
4. SEE DETAIL 2 THIS SHEET FOR TYP. FAN PIPING CONNECTIONS.

GENERAL NOTES:

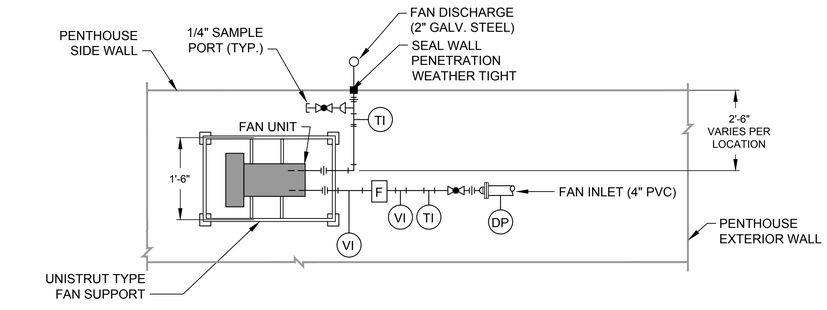
1. REFER TO PROJECT SPECIFICATIONS.
2. ALL SYSTEM PIPING SHALL BE LABELED AS "SUB-SLAB DEPRESSURIZATION SYSTEM" AT A MIN. OF 40-FOOT INTERVALS.
3. FAN DISCHARGE POINT SHALL BE A MINIMUM OF 25 FEET AWAY FROM ANY AIR INTAKE TO THE BUILDING.
4. ALL HORIZONTAL PIPING SHALL BE SLOPED A MINIMUM OF $\frac{1}{8}$ INCH PER 1 FOOT TO PERMIT DRAINAGE BACK TO THE SUCTION PIT. NO TRAPS ARE ALLOWED.
5. PIPE FITTINGS AND CONNECTIONS ARE TO BE AIR TIGHT. PRESSURE TEST FOR TIGHTNESS PER MECHANICAL SPECIFICATION.
6. PIPES SHALL BE FASTENED TO THE STRUCTURE OF THE BUILDING WITH HANGERS, STRAPPING OR OTHER SUPPORTS THAT WILL ADEQUATELY SECURE THE MATERIAL. SUPPORTING PIPES USING EXISTING PIPING IS NOT ALLOWED.
7. PIPES SHALL NOT BLOCK ACCESS TO ANY AREAS REQUIRING MAINTENANCE OR INSPECTION.
8. INSTALL ALL GAUGES/VALVES/FLOW SENSORS INSIDE FAN ENCLOSURES; PROVIDE FAN IDENTIFICATION ON THE EXTERIOR OF HOUSING.

LEGEND:

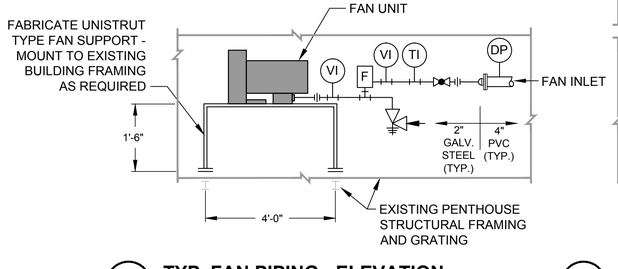
- BALL VALVE
- BUTTERFLY VALVE
- FLANGE
- 2" X 1/4" REDUCER
- PIPE UNION
- VACUUM RELIEF VALVE

ABBREVIATIONS:

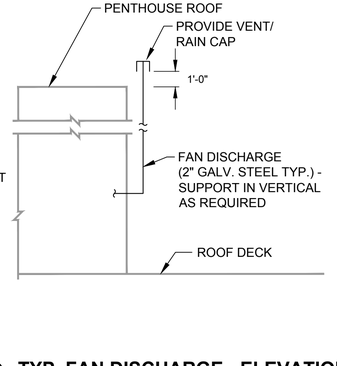
VI	VACUUM INDICATOR
TI	TEMPERATURE INDICATOR
DP	DIFFERENTIAL PRESSURE FLOW SENSOR
F	IN-LINE FILTER



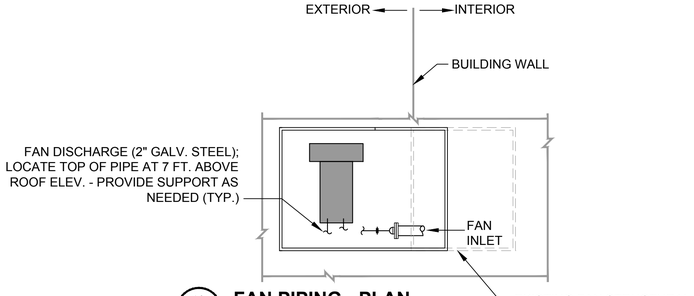
2A **TYP. FAN PIPING - PLAN**
(PENTHOUSE LOCATIONS)
NTS



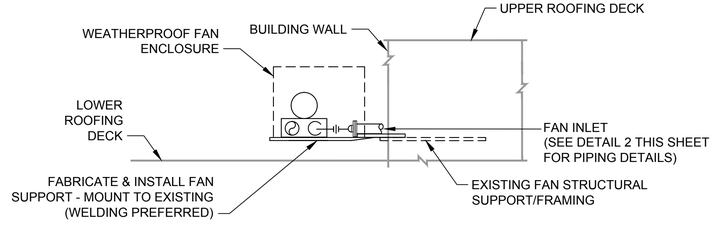
2B **TYP. FAN PIPING - ELEVATION**
(PENTHOUSE LOCATIONS)
NTS



2C **TYP. FAN DISCHARGE - ELEVATION**
(PENTHOUSE LOCATIONS)
NTS



4A **FAN PIPING - PLAN**
(FAN 1 - BLDG 7E)
NTS



4B **FAN PIPING - ELEVATION**
(FAN 1 - BLDG 7E)
NTS

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Designed By:	EQL
Checked By:	DJC
Approved By:	EQL
Stamp:	

Rev.	Description	By	Date
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1	ISSUE FOR CONSTRUCTION	H&A	03/25/13
B	100% CD - ISSUE FOR BID	H&A	02/11/13
A	95% CD - ISSUE FOR REVIEW	H&A	02/01/13

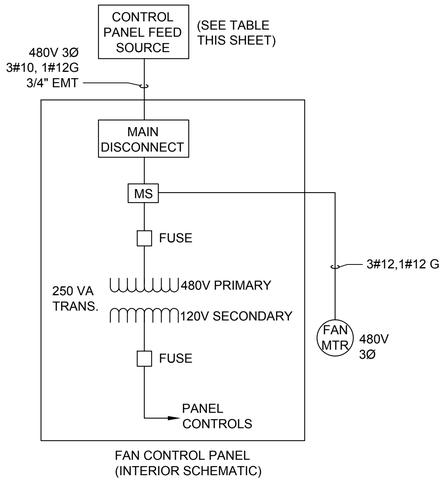
SUB-SLAB
DEPRESSURIZATION
SYSTEM
GMCH
LOCKPORT, NEW YORK

MECHANICAL &
PIPING DETAILS

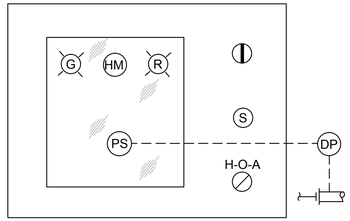
Sheet: 5 OF 6

M-1 2

CADD File Data:
Drawing Name: \\oo\common\Projects\36795_GM Lockport\CAD\2013-SSDS DESIGN\As-Builts\36795-SSDS-ASBLT [2015-0528].dwg
Layout: M-1
Operator Name: LIBBY, PAT



FAN CONTROL PANEL
(INTERIOR SCHEMATIC)

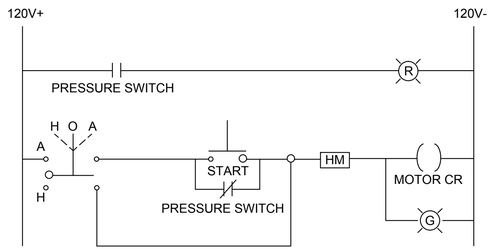


SSDS PIPING;
(AT FAN INLET)
(SEE DWG M-1 FOR TYP. CONNECTION)

FAN CONTROL PANEL
(EXTERIOR VIEW)

1 SSDS FAN - ELECTRICAL ONE LINE DIAGRAM
NTS

(TYP. EACH FAN/PIT)
(SEE NOTE 4)



2 SSDS FAN - CONTROL CIRCUIT DIAGRAM
NTS

(TYP. EACH FAN/PIT)
(SEE NOTE 4)

LEGEND:

(R)	RED INDICATOR LIGHT
(G)	GREEN INDICATOR LIGHT
(S)	PUSH BUTTON START
(DP)	DIFFERENTIAL PRESSURE SENSOR
◐	480V MAIN DISCONNECT
HM	HOUR METER
H-O-A	HAND-OFF-AUTO SWITCH
PS	PRESSURE SWITCH
S	PUSH BUTTON START
MS	MOTOR STARTER

ELECTRICAL AND CONTROL NOTES:

1. REFER TO PROJECT SPECIFICATIONS.
2. ONE FUSABLE DISCONNNECT FOR EACH FAN SHALL BE INSTALLED IN THE SYSTEM SUB-SLAB VENT FAN CIRCUITS TO PERMIT DEACTIVATION OF THE FAN FOR MAINTENANCE OR REPAIR.
3. ACTIVATION RANGE OF PRESSURE SWITCHES INDICATING FAN OPERATIONS SHALL BE ADJUSTED AFTER FIELD TESTING OF THE SYSTEM.
4. REFER TO PROJECT SUBMITTAL DOCUMENTS OF CONTROL PANEL FOR ADDITIONAL DETAILS.

TABLE - CONTROL PANEL FEED SOURCE

Fan Tag	Fan Location	Fan Control Panel Feed Source	Approx. Feed Source Location/ Col Area	Bus Feed/ Sub Station
7W-1	Penthouse - 9	Bus Bucket NE-16	E-47	P13N-48 / 25-2-94 LOX West 3
7W-2	Penthouse - 21	Bus Bucket NE-41	E-61	P13N-48 / 25-2-94 LOX West 3
7W-3	Penthouse - 9	Bus Bucket NE-17	E-47	P13N-48 / 25-2-94 LOX West 3
7W-4	3rd Flr - Mech Rm	Fused Disconnect	L38-J37	5S-T34
7W-5	3rd Flr - Mech Rm	Fused Disconnect	L38-J37	5S-T34
7W-6	3rd Flr - Mech Rm	Fused Disconnect	L38-J37	5S-T34
7W-7	Penthouse - 4	Bus Bucket SW-45	S39-S41	P-13S-53
7E-1	Roof Area	Bus Bucket NE-3	FF-33	P-7N-39
7A-1	7A - North Penthouse Mech Rm	LP35ZS - CB #21	South Penthouse MCC #3	
7A-2	7A - North Penthouse Mech Rm	LP35ZS - CB #28	South Penthouse MCC #3	
8-1	Penthouse - 14	Bus Bucket	MM85/MM87	25-1-94 LOX East 1
8-2	HVAC Mech Rm	MCC Bucket 5D	MM89/MM91	601-00305
8-3	Penthouse - 15	Bus Bucket	MM91/MM93	
8-4	Penthouse - 9	Bus Bucket	X85/X87	P25N#37
8-5	Penthouse - 14	Bus Bucket	MM85/MM87	25-1-94 LOX East 1
8-6	Penthouse - 14	Bus Bucket	MM85/MM87	25-1-94 LOX East 1
8-7	Penthouse - 14	Bus Bucket	MM85/MM87	25-1-94 LOX East 1

HALEY ALDRICH

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Project No.:	36795-027/029
Scale:	AS SHOWN
Date:	23 JANUARY 2013
Drawn By:	PGL
Designed By:	EQL
Checked By:	DJC
Approved By:	EQL

Stamp:

Rev.	Description	By	Date
2	AS-BUILTS	H&A	09/30/13
1	ISSUE FOR CONSTRUCTION	H&A	03/25/13
B	100% CD - ISSUE FOR BID	H&A	02/11/13
A	95% CD - ISSUE FOR REVIEW	H&A	02/01/13

SUB-SLAB DEPRESSURIZATION SYSTEM
GMCH
LOCKPORT, NEW YORK

ELECTRICAL & CONTROL DETAILS

Sheet: 6 OF 6

E-1 2

CADD File Data:
Drawing Name: \\roc\common\Projects\36795_GM Lockport\CAD\2013-SSDS DESIGN\As-Builts\36795-SSDS-ASBLT [2015-0528].dwg
Operator Name: LIBBY, PAT
Layout: E-1

APPENDIX B

Laboratory Data Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-56991-1
Client Project/Site: 058507, GM-Lockport Vapor Intrusion

For:
Conestoga-Rovers & Associates, Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Kathleen Willy

Authorized for release by:
4/4/2014 3:13:56 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Job ID: 480-56991-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-56991-1

Receipt
The samples were received on 4/1/2014 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

The sample tag on this sample was scribbled out and the new ID was wrtiien at the top of the tag. The canister ID, Sample ID and Flow Controller were matched to the COC for log-in.

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

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7AIA-1-032814 — Lab Sample ID: 480-56991-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	1.6		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Butane	0.61		0.50	0.50	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Freon 22	5.7		1.8	1.8	ug/m3	1		TO-15	Total/NA
n-Butane	1.5		1.2	1.2	ug/m3	1		TO-15	Total/NA

Client Sample ID: 7EIA-1-032814 — Lab Sample ID: 480-56991-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.4		0.40	0.40	ppb v/v	2		TO-15	Total/NA
1,2-Dichloroethene, Total	1.5		0.40	0.40	ppb v/v	2		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.49		0.40	0.40	ppb v/v	2		TO-15	Total/NA
4-Ethyltoluene	0.41		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Benzene	0.74		0.40	0.40	ppb v/v	2		TO-15	Total/NA
cis-1,2-Dichloroethene	1.5		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Ethylbenzene	0.71		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Isopropyl alcohol	50		10	10	ppb v/v	2		TO-15	Total/NA
m,p-Xylene	2.8		1.0	1.0	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone	2.1		1.0	1.0	ppb v/v	2		TO-15	Total/NA
Methyl methacrylate	1.9		1.0	1.0	ppb v/v	2		TO-15	Total/NA
n-Butane	1.8		1.0	1.0	ppb v/v	2		TO-15	Total/NA
n-Hexane	0.58		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene	0.48		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Toluene	5.5		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane	1.3		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Xylene (total)	3.9		0.40	0.40	ppb v/v	2		TO-15	Total/NA
Xylene, o-	1.1		0.40	0.40	ppb v/v	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	7.0		2.0	2.0	ug/m3	2		TO-15	Total/NA
1,2-Dichloroethene, Total	5.9		1.6	1.6	ug/m3	2		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.4		2.0	2.0	ug/m3	2		TO-15	Total/NA
4-Ethyltoluene	2.0		2.0	2.0	ug/m3	2		TO-15	Total/NA
Benzene	2.4		1.3	1.3	ug/m3	2		TO-15	Total/NA
cis-1,2-Dichloroethene	5.8		1.6	1.6	ug/m3	2		TO-15	Total/NA
Ethylbenzene	3.1		1.7	1.7	ug/m3	2		TO-15	Total/NA
Isopropyl alcohol	120		25	25	ug/m3	2		TO-15	Total/NA
m,p-Xylene	12		4.3	4.3	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone	6.1		2.9	2.9	ug/m3	2		TO-15	Total/NA
Methyl methacrylate	7.6		4.1	4.1	ug/m3	2		TO-15	Total/NA
n-Butane	4.2		2.4	2.4	ug/m3	2		TO-15	Total/NA
n-Hexane	2.0		1.4	1.4	ug/m3	2		TO-15	Total/NA
Tetrachloroethene	3.3		2.7	2.7	ug/m3	2		TO-15	Total/NA
Toluene	21		1.5	1.5	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane	7.2		2.2	2.2	ug/m3	2		TO-15	Total/NA
Xylene (total)	17		1.7	1.7	ug/m3	2		TO-15	Total/NA
Xylene, o-	4.7		1.7	1.7	ug/m3	2		TO-15	Total/NA

Client Sample ID: 7WIA-1-032814 — Lab Sample ID: 480-56991-3

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7WIA-1-032814 (Continued)

Lab Sample ID: 480-56991-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.24		0.20	0.20	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.65		0.20	0.20	ppb v/v	1		TO-15	Total/NA
1,4-Dioxane	5.0		5.0	5.0	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	1.0		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	12		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Benzene	0.41		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.65		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.39		0.20	0.20	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.1		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.2		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Butane	1.2		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.89		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.20		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Toluene	1.5		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.68		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Xylene (total)	1.5		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.41		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.2		0.98	0.98	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	1.4		0.44	0.44	ug/m3	1		TO-15	Total/NA
1,4-Dioxane	18		18	18	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	5.6		1.1	1.1	ug/m3	1		TO-15	Total/NA
Acetone	28		12	12	ug/m3	1		TO-15	Total/NA
Benzene	1.3		0.64	0.64	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	1.0	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.7		0.87	0.87	ug/m3	1		TO-15	Total/NA
m,p-Xylene	4.7		2.2	2.2	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	3.6		1.5	1.5	ug/m3	1		TO-15	Total/NA
n-Butane	2.9		1.2	1.2	ug/m3	1		TO-15	Total/NA
n-Hexane	3.1		0.70	0.70	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.3		1.4	1.4	ug/m3	1		TO-15	Total/NA
Toluene	5.8		0.75	0.75	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	3.8		1.1	1.1	ug/m3	1		TO-15	Total/NA
Xylene (total)	6.6		0.87	0.87	ug/m3	1		TO-15	Total/NA
Xylene, o-	1.8		0.87	0.87	ug/m3	1		TO-15	Total/NA

Client Sample ID: 7WIA-3-032814

Lab Sample ID: 480-56991-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	0.42		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	12		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Benzene	0.29		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.39		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.72		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	32		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.89		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Butane	1.6		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.9		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.47		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Toluene	4.8		0.20	0.20	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7WIA-3-032814 (Continued)

Lab Sample ID: 480-56991-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	2.2		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	0.93		0.44	0.44	ug/m3	1		TO-15	Total/NA
Acetone	29		12	12	ug/m3	1		TO-15	Total/NA
Benzene	0.92		0.64	0.64	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.4		0.69	0.69	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	3.5		2.5	2.5	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	78		12	12	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.6		1.5	1.5	ug/m3	1		TO-15	Total/NA
n-Butane	3.8		1.2	1.2	ug/m3	1		TO-15	Total/NA
n-Hexane	6.5		0.70	0.70	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.2		1.4	1.4	ug/m3	1		TO-15	Total/NA
Toluene	18		0.75	0.75	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	12		1.1	1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: 7WIA-4-032814

Lab Sample ID: 480-56991-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	88		15	15	ppb v/v	2.99		TO-15	Total/NA
n-Butane	2.2		1.5	1.5	ppb v/v	2.99		TO-15	Total/NA
n-Hexane	1.1		0.60	0.60	ppb v/v	2.99		TO-15	Total/NA
Toluene	2.0		0.60	0.60	ppb v/v	2.99		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	220		37	37	ug/m3	2.99		TO-15	Total/NA
n-Butane	5.3		3.6	3.6	ug/m3	2.99		TO-15	Total/NA
n-Hexane	3.9		2.1	2.1	ug/m3	2.99		TO-15	Total/NA
Toluene	7.4		2.3	2.3	ug/m3	2.99		TO-15	Total/NA

Client Sample ID: 8IA-1-032814

Lab Sample ID: 480-56991-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	0.34		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	15		5.0	5.0	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.34		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	2.2		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.94		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Methyl methacrylate	0.76		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Butane	4.8		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Toluene	1.2		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.65		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	1.3		0.79	0.79	ug/m3	1		TO-15	Total/NA
Acetone	34		12	12	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	1.4		0.79	0.79	ug/m3	1		TO-15	Total/NA
Freon 22	7.7		1.8	1.8	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.8		1.5	1.5	ug/m3	1		TO-15	Total/NA
Methyl methacrylate	3.1		2.0	2.0	ug/m3	1		TO-15	Total/NA
n-Butane	11		1.2	1.2	ug/m3	1		TO-15	Total/NA
Toluene	4.5		0.75	0.75	ug/m3	1		TO-15	Total/NA
Trichloroethene	3.5		1.1	1.1	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-2-032814 — Lab Sample ID: 480-56991-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.21		0.20	0.20	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.41		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	11		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Benzene	0.28		0.20	0.20	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.41		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.45		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	3.8		0.50	0.50	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.9		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.67		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Butane	3.5		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.21		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Toluene	2.0		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.0		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Xylene (total)	2.5		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.59		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.0		0.98	0.98	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	1.6		0.79	0.79	ug/m3	1		TO-15	Total/NA
Acetone	25		12	12	ug/m3	1		TO-15	Total/NA
Benzene	0.88		0.64	0.64	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	1.6		0.79	0.79	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.0		0.87	0.87	ug/m3	1		TO-15	Total/NA
Freon 22	14		1.8	1.8	ug/m3	1		TO-15	Total/NA
m,p-Xylene	8.3		2.2	2.2	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.0		1.5	1.5	ug/m3	1		TO-15	Total/NA
n-Butane	8.3		1.2	1.2	ug/m3	1		TO-15	Total/NA
n-Hexane	0.75		0.70	0.70	ug/m3	1		TO-15	Total/NA
Toluene	7.5		0.75	0.75	ug/m3	1		TO-15	Total/NA
Trichloroethene	5.4		1.1	1.1	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	1.1	ug/m3	1		TO-15	Total/NA
Xylene (total)	11		0.87	0.87	ug/m3	1		TO-15	Total/NA
Xylene, o-	2.6		0.87	0.87	ug/m3	1		TO-15	Total/NA

Client Sample ID: 8IA-3-032814 — Lab Sample ID: 480-56991-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.44		0.20	0.20	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.56		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	7.8		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Benzene	0.27		0.20	0.20	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.56		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.65		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Freon 22	2.1		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	6.0		5.0	5.0	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	2.9		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.55		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Butane	3.0		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.23		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.38		0.20	0.20	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 8IA-3-032814 (Continued)

Lab Sample ID: 480-56991-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.5		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.6		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Xylene (total)	3.8		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.93		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.2		0.98	0.98	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	2.2		0.79	0.79	ug/m3	1		TO-15	Total/NA
Acetone	19		12	12	ug/m3	1		TO-15	Total/NA
Benzene	0.86		0.64	0.64	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	2.2		0.79	0.79	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.8		0.87	0.87	ug/m3	1		TO-15	Total/NA
Freon 22	7.6		1.8	1.8	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	15		12	12	ug/m3	1		TO-15	Total/NA
m,p-Xylene	12		2.2	2.2	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.6		1.5	1.5	ug/m3	1		TO-15	Total/NA
n-Butane	7.1		1.2	1.2	ug/m3	1		TO-15	Total/NA
n-Hexane	0.79		0.70	0.70	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.6		1.4	1.4	ug/m3	1		TO-15	Total/NA
Toluene	5.8		0.75	0.75	ug/m3	1		TO-15	Total/NA
Trichloroethene	8.4		1.1	1.1	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	1.1	ug/m3	1		TO-15	Total/NA
Xylene (total)	17		0.87	0.87	ug/m3	1		TO-15	Total/NA
Xylene, o-	4.0		0.87	0.87	ug/m3	1		TO-15	Total/NA

Client Sample ID: 7WIA-2-032814

Lab Sample ID: 480-56991-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	0.82		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	7.2		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Benzene	0.31		0.20	0.20	ppb v/v	1		TO-15	Total/NA
n-Butane	1.2		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.69		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.30		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.24		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.99		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	1.8		0.44	0.44	ug/m3	1		TO-15	Total/NA
Acetone	17		12	12	ug/m3	1		TO-15	Total/NA
Benzene	1.0		0.64	0.64	ug/m3	1		TO-15	Total/NA
n-Butane	2.8		1.2	1.2	ug/m3	1		TO-15	Total/NA
n-Hexane	2.4		0.70	0.70	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.0		1.4	1.4	ug/m3	1		TO-15	Total/NA
Toluene	4.0		0.75	0.75	ug/m3	1		TO-15	Total/NA
Trichloroethene	1.3		1.1	1.1	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	5.6		1.1	1.1	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7AIA-1-032814
Date Collected: 03/28/14 16:10
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-1
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
1,2,4-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,2-Dichloroethene, Total	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,3-Butadiene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/03/14 01:26	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Acetone	ND		5.0	5.0	ppb v/v			04/03/14 01:26	1
Benzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
cis-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
Ethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Freon 22	**1.6**		0.50	0.50	ppb v/v			04/03/14 01:26	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Isopropyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 01:26	1
m,p-Xylene	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7AIA-1-032814
Date Collected: 03/28/14 16:10
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-1
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
Methyl Ethyl Ketone	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 01:26	1
n-Butane	**0.61**		0.50	0.50	ppb v/v			04/03/14 01:26	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
n-Hexane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 01:26	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Tetrachloroethene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 01:26	1
Toluene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Trichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Trichlorofluoromethane	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Xylene (total)	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1
Xylene, o-	ND		0.20	0.20	ppb v/v			04/03/14 01:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 01:26	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 01:26	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 01:26	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 01:26	1
1,2,4-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 01:26	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 01:26	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 01:26	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 01:26	1
1,2-Dichloroethene, Total	ND		0.79	0.79	ug/m3			04/03/14 01:26	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 01:26	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 01:26	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 01:26	1
1,3-Butadiene	ND		0.44	0.44	ug/m3			04/03/14 01:26	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 01:26	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 01:26	1
1,4-Dioxane	ND		18	18	ug/m3			04/03/14 01:26	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 01:26	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 01:26	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 01:26	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7AIA-1-032814
Date Collected: 03/28/14 16:10
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-1
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 01:26	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
Acetone	ND		12	12	ug/m3			04/03/14 01:26	1
Benzene	ND		0.64	0.64	ug/m3			04/03/14 01:26	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 01:26	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 01:26	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 01:26	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 01:26	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 01:26	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 01:26	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 01:26	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 01:26	1
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 01:26	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 01:26	1
Chloromethane	ND		1.0	1.0	ug/m3			04/03/14 01:26	1
cis-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 01:26	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 01:26	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 01:26	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/03/14 01:26	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 01:26	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/03/14 01:26	1
Ethylbenzene	ND		0.87	0.87	ug/m3			04/03/14 01:26	1
Freon 22	**5.7**		1.8	1.8	ug/m3			04/03/14 01:26	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 01:26	1
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 01:26	1
Isopropyl alcohol	ND		12	12	ug/m3			04/03/14 01:26	1
m,p-Xylene	ND		2.2	2.2	ug/m3			04/03/14 01:26	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 01:26	1
Methyl Ethyl Ketone	ND		1.5	1.5	ug/m3			04/03/14 01:26	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 01:26	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/03/14 01:26	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 01:26	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 01:26	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 01:26	1
n-Butane	**1.5**		1.2	1.2	ug/m3			04/03/14 01:26	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 01:26	1
n-Hexane	ND		0.70	0.70	ug/m3			04/03/14 01:26	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 01:26	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 01:26	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 01:26	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
Tetrachloroethene	ND		1.4	1.4	ug/m3			04/03/14 01:26	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 01:26	1
Toluene	ND		0.75	0.75	ug/m3			04/03/14 01:26	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 01:26	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 01:26	1

Client Sample ID: 7AIA-1-032814 — **Lab Sample ID: 480-56991-1**
Date Collected: 03/28/14 16:10 — **Matrix: Air**
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
Trichlorofluoromethane	ND		1.1	1.1	ug/m3			04/03/14 01:26	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 01:26	1
Xylene (total)	ND		0.87	0.87	ug/m3			04/03/14 01:26	1
Xylene, o-	ND		0.87	0.87	ug/m3			04/03/14 01:26	1

Client Sample ID: 7EIA-1-032814 — **Lab Sample ID: 480-56991-2**
Date Collected: 03/28/14 16:21 — **Matrix: Air**
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,1,2,2-Tetrachloroethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,1,2-Trichloroethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,1-Dichloroethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,1-Dichloroethene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,2,4-Trichlorobenzene	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
1,2,4-Trimethylbenzene	**1.4**		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,2-Dibromoethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,2-Dichlorobenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,2-Dichloroethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,2-Dichloroethene, Total	**1.5**		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,2-Dichloropropane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,2-Dichlorotetrafluoroethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,3,5-Trimethylbenzene	**0.49**		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,3-Butadiene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,3-Dichlorobenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,4-Dichlorobenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
1,4-Dioxane	ND		10	10	ppb v/v			04/03/14 15:57	2
2,2,4-Trimethylpentane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
2-Chlorotoluene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
3-Chloropropene	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
4-Ethyltoluene	**0.41**		0.40	0.40	ppb v/v			04/03/14 15:57	2
4-Isopropyltoluene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Acetone	ND		10	10	ppb v/v			04/03/14 15:57	2
Benzene	**0.74**		0.40	0.40	ppb v/v			04/03/14 15:57	2
Benzyl chloride	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Bromodichloromethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Bromoethene(Vinyl Bromide)	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Bromoform	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Bromomethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Carbon disulfide	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
Carbon tetrachloride	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Chlorobenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Chloroethane	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
Chloroform	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Chloromethane	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7EIA-1-032814
Date Collected: 03/28/14 16:21
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-2
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1.5**		0.40	0.40	ppb v/v			04/03/14 15:57	2
cis-1,3-Dichloropropene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Cumene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Cyclohexane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Dibromochloromethane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Dichlorodifluoromethane	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
Ethylbenzene	**0.71**		0.40	0.40	ppb v/v			04/03/14 15:57	2
Freon 22	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
Freon TF	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Hexachlorobutadiene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Isopropyl alcohol	**50**		10	10	ppb v/v			04/03/14 15:57	2
m,p-Xylene	**2.8**		1.0	1.0	ppb v/v			04/03/14 15:57	2
Methyl Butyl Ketone (2-Hexanone)	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
Methyl Ethyl Ketone	**2.1**		1.0	1.0	ppb v/v			04/03/14 15:57	2
methyl isobutyl ketone	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
Methyl methacrylate	**1.9**		1.0	1.0	ppb v/v			04/03/14 15:57	2
Methyl tert-butyl ether	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Methylene Chloride	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
Naphthalene	ND		1.0	1.0	ppb v/v			04/03/14 15:57	2
n-Butane	**1.8**		1.0	1.0	ppb v/v			04/03/14 15:57	2
n-Butylbenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
n-Heptane	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
n-Hexane	**0.58**		0.40	0.40	ppb v/v			04/03/14 15:57	2
n-Propylbenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
sec-Butylbenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Styrene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
tert-Butyl alcohol	ND		10	10	ppb v/v			04/03/14 15:57	2
tert-Butylbenzene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Tetrachloroethene	**0.48**		0.40	0.40	ppb v/v			04/03/14 15:57	2
Tetrahydrofuran	ND		10	10	ppb v/v			04/03/14 15:57	2
Toluene	**5.5**		0.40	0.40	ppb v/v			04/03/14 15:57	2
trans-1,2-Dichloroethene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
trans-1,3-Dichloropropene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Trichloroethene	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Trichlorofluoromethane	**1.3**		0.40	0.40	ppb v/v			04/03/14 15:57	2
Vinyl chloride	ND		0.40	0.40	ppb v/v			04/03/14 15:57	2
Xylene (total)	**3.9**		0.40	0.40	ppb v/v			04/03/14 15:57	2
Xylene, o-	**1.1**		0.40	0.40	ppb v/v			04/03/14 15:57	2

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.2	2.2	ug/m3			04/03/14 15:57	2
1,1,2,2-Tetrachloroethane	ND		2.7	2.7	ug/m3			04/03/14 15:57	2
1,1,2-Trichloroethane	ND		2.2	2.2	ug/m3			04/03/14 15:57	2
1,1-Dichloroethane	ND		1.6	1.6	ug/m3			04/03/14 15:57	2
1,1-Dichloroethene	ND		1.6	1.6	ug/m3			04/03/14 15:57	2
1,2,4-Trichlorobenzene	ND		7.4	7.4	ug/m3			04/03/14 15:57	2
1,2,4-Trimethylbenzene	**7.0**		2.0	2.0	ug/m3			04/03/14 15:57	2
1,2-Dibromoethane	ND		3.1	3.1	ug/m3			04/03/14 15:57	2
1,2-Dichlorobenzene	ND		2.4	2.4	ug/m3			04/03/14 15:57	2

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7EIA-1-032814
Date Collected: 03/28/14 16:21
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-2
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.6	1.6	ug/m3			04/03/14 15:57	2
1,2-Dichloroethene, Total	**5.9**		1.6	1.6	ug/m3			04/03/14 15:57	2
1,2-Dichloropropane	ND		1.8	1.8	ug/m3			04/03/14 15:57	2
1,2-Dichlorotetrafluoroethane	ND		2.8	2.8	ug/m3			04/03/14 15:57	2
1,3,5-Trimethylbenzene	**2.4**		2.0	2.0	ug/m3			04/03/14 15:57	2
1,3-Butadiene	ND		0.88	0.88	ug/m3			04/03/14 15:57	2
1,3-Dichlorobenzene	ND		2.4	2.4	ug/m3			04/03/14 15:57	2
1,4-Dichlorobenzene	ND		2.4	2.4	ug/m3			04/03/14 15:57	2
1,4-Dioxane	ND		36	36	ug/m3			04/03/14 15:57	2
2,2,4-Trimethylpentane	ND		1.9	1.9	ug/m3			04/03/14 15:57	2
2-Chlorotoluene	ND		2.1	2.1	ug/m3			04/03/14 15:57	2
3-Chloropropene	ND		3.1	3.1	ug/m3			04/03/14 15:57	2
4-Ethyltoluene	**2.0**		2.0	2.0	ug/m3			04/03/14 15:57	2
4-Isopropyltoluene	ND		2.2	2.2	ug/m3			04/03/14 15:57	2
Acetone	ND		24	24	ug/m3			04/03/14 15:57	2
Benzene	**2.4**		1.3	1.3	ug/m3			04/03/14 15:57	2
Benzyl chloride	ND		2.1	2.1	ug/m3			04/03/14 15:57	2
Bromodichloromethane	ND		2.7	2.7	ug/m3			04/03/14 15:57	2
Bromoethene(Vinyl Bromide)	ND		1.7	1.7	ug/m3			04/03/14 15:57	2
Bromoform	ND		4.1	4.1	ug/m3			04/03/14 15:57	2
Bromomethane	ND		1.6	1.6	ug/m3			04/03/14 15:57	2
Carbon disulfide	ND		3.1	3.1	ug/m3			04/03/14 15:57	2
Carbon tetrachloride	ND		2.5	2.5	ug/m3			04/03/14 15:57	2
Chlorobenzene	ND		1.8	1.8	ug/m3			04/03/14 15:57	2
Chloroethane	ND		2.6	2.6	ug/m3			04/03/14 15:57	2
Chloroform	ND		2.0	2.0	ug/m3			04/03/14 15:57	2
Chloromethane	ND		2.1	2.1	ug/m3			04/03/14 15:57	2
cis-1,2-Dichloroethene	**5.8**		1.6	1.6	ug/m3			04/03/14 15:57	2
cis-1,3-Dichloropropene	ND		1.8	1.8	ug/m3			04/03/14 15:57	2
Cumene	ND		2.0	2.0	ug/m3			04/03/14 15:57	2
Cyclohexane	ND		1.4	1.4	ug/m3			04/03/14 15:57	2
Dibromochloromethane	ND		3.4	3.4	ug/m3			04/03/14 15:57	2
Dichlorodifluoromethane	ND		4.9	4.9	ug/m3			04/03/14 15:57	2
Ethylbenzene	**3.1**		1.7	1.7	ug/m3			04/03/14 15:57	2
Freon 22	ND		3.5	3.5	ug/m3			04/03/14 15:57	2
Freon TF	ND		3.1	3.1	ug/m3			04/03/14 15:57	2
Hexachlorobutadiene	ND		4.3	4.3	ug/m3			04/03/14 15:57	2
Isopropyl alcohol	**120**		25	25	ug/m3			04/03/14 15:57	2
m,p-Xylene	**12**		4.3	4.3	ug/m3			04/03/14 15:57	2
Methyl Butyl Ketone (2-Hexanone)	ND		4.1	4.1	ug/m3			04/03/14 15:57	2
Methyl Ethyl Ketone	**6.1**		2.9	2.9	ug/m3			04/03/14 15:57	2
methyl isobutyl ketone	ND		4.1	4.1	ug/m3			04/03/14 15:57	2
Methyl methacrylate	**7.6**		4.1	4.1	ug/m3			04/03/14 15:57	2
Methyl tert-butyl ether	ND		1.4	1.4	ug/m3			04/03/14 15:57	2
Methylene Chloride	ND		3.5	3.5	ug/m3			04/03/14 15:57	2
Naphthalene	ND		5.2	5.2	ug/m3			04/03/14 15:57	2
n-Butane	**4.2**		2.4	2.4	ug/m3			04/03/14 15:57	2
n-Butylbenzene	ND		2.2	2.2	ug/m3			04/03/14 15:57	2

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7EIA-1-032814

Lab Sample ID: 480-56991-2

Date Collected: 03/28/14 16:21
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	ND		1.6	1.6	ug/m3			04/03/14 15:57	2
n-Hexane	**2.0**		1.4	1.4	ug/m3			04/03/14 15:57	2
n-Propylbenzene	ND		2.0	2.0	ug/m3			04/03/14 15:57	2
sec-Butylbenzene	ND		2.2	2.2	ug/m3			04/03/14 15:57	2
Styrene	ND		1.7	1.7	ug/m3			04/03/14 15:57	2
tert-Butyl alcohol	ND		30	30	ug/m3			04/03/14 15:57	2
tert-Butylbenzene	ND		2.2	2.2	ug/m3			04/03/14 15:57	2
Tetrachloroethene	**3.3**		2.7	2.7	ug/m3			04/03/14 15:57	2
Tetrahydrofuran	ND		29	29	ug/m3			04/03/14 15:57	2
Toluene	**21**		1.5	1.5	ug/m3			04/03/14 15:57	2
trans-1,2-Dichloroethene	ND		1.6	1.6	ug/m3			04/03/14 15:57	2
trans-1,3-Dichloropropene	ND		1.8	1.8	ug/m3			04/03/14 15:57	2
Trichloroethene	ND		2.1	2.1	ug/m3			04/03/14 15:57	2
Trichlorofluoromethane	**7.2**		2.2	2.2	ug/m3			04/03/14 15:57	2
Vinyl chloride	ND		1.0	1.0	ug/m3			04/03/14 15:57	2
Xylene (total)	**17**		1.7	1.7	ug/m3			04/03/14 15:57	2
Xylene, o-	**4.7**		1.7	1.7	ug/m3			04/03/14 15:57	2

Client Sample ID: 7WIA-1-032814

Lab Sample ID: 480-56991-3

Date Collected: 03/28/14 15:28
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
1,2,4-Trimethylbenzene	**0.24**		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,2-Dichloroethene, Total	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,3-Butadiene	**0.65**		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
1,4-Dioxane	**5.0**		5.0	5.0	ppb v/v			04/03/14 03:10	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
4-Isopropyltoluene	**1.0**		0.20	0.20	ppb v/v			04/03/14 03:10	1
Acetone	**12**		5.0	5.0	ppb v/v			04/03/14 03:10	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-1-032814
Date Collected: 03/28/14 15:28
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-3
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.41**		0.20	0.20	ppb v/v			04/03/14 03:10	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Chloromethane	**0.65**		0.50	0.50	ppb v/v			04/03/14 03:10	1
cis-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Ethylbenzene	**0.39**		0.20	0.20	ppb v/v			04/03/14 03:10	1
Freon 22	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Isopropyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 03:10	1
m,p-Xylene	**1.1**		0.50	0.50	ppb v/v			04/03/14 03:10	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Methyl Ethyl Ketone	**1.2**		0.50	0.50	ppb v/v			04/03/14 03:10	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 03:10	1
n-Butane	**1.2**		0.50	0.50	ppb v/v			04/03/14 03:10	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
n-Hexane	**0.89**		0.20	0.20	ppb v/v			04/03/14 03:10	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 03:10	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Tetrachloroethene	**0.20**		0.20	0.20	ppb v/v			04/03/14 03:10	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 03:10	1
Toluene	**1.5**		0.20	0.20	ppb v/v			04/03/14 03:10	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Trichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1
Trichlorofluoromethane	**0.68**		0.20	0.20	ppb v/v			04/03/14 03:10	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 03:10	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-1-032814
Date Collected: 03/28/14 15:28
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-3
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene (total)	**1.5**		0.20	0.20	ppb v/v			04/03/14 03:10	1
Xylene, o-	**0.41**		0.20	0.20	ppb v/v			04/03/14 03:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 03:10	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 03:10	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 03:10	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 03:10	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 03:10	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 03:10	1
1,2,4-Trimethylbenzene	**1.2**		0.98	0.98	ug/m3			04/03/14 03:10	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 03:10	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 03:10	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 03:10	1
1,2-Dichloroethene, Total	ND		0.79	0.79	ug/m3			04/03/14 03:10	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 03:10	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 03:10	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 03:10	1
1,3-Butadiene	**1.4**		0.44	0.44	ug/m3			04/03/14 03:10	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 03:10	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 03:10	1
1,4-Dioxane	**18**		18	18	ug/m3			04/03/14 03:10	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 03:10	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 03:10	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 03:10	1
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 03:10	1
4-Isopropyltoluene	**5.6**		1.1	1.1	ug/m3			04/03/14 03:10	1
Acetone	**28**		12	12	ug/m3			04/03/14 03:10	1
Benzene	**1.3**		0.64	0.64	ug/m3			04/03/14 03:10	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 03:10	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 03:10	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 03:10	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 03:10	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 03:10	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 03:10	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 03:10	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 03:10	1
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 03:10	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 03:10	1
Chloromethane	**1.3**		1.0	1.0	ug/m3			04/03/14 03:10	1
cis-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 03:10	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 03:10	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 03:10	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/03/14 03:10	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 03:10	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/03/14 03:10	1
Ethylbenzene	**1.7**		0.87	0.87	ug/m3			04/03/14 03:10	1
Freon 22	ND		1.8	1.8	ug/m3			04/03/14 03:10	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 03:10	1

Client Sample ID: 7WIA-1-032814
Lab Sample ID: 480-56991-3
Date Collected: 03/28/14 15:28
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 03:10	1
Isopropyl alcohol	ND		12	12	ug/m3			04/03/14 03:10	1
m,p-Xylene	**4.7**		2.2	2.2	ug/m3			04/03/14 03:10	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 03:10	1
Methyl Ethyl Ketone	**3.6**		1.5	1.5	ug/m3			04/03/14 03:10	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 03:10	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/03/14 03:10	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 03:10	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 03:10	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 03:10	1
n-Butane	**2.9**		1.2	1.2	ug/m3			04/03/14 03:10	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 03:10	1
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 03:10	1
n-Hexane	**3.1**		0.70	0.70	ug/m3			04/03/14 03:10	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 03:10	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 03:10	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 03:10	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 03:10	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 03:10	1
Tetrachloroethene	**1.3**		1.4	1.4	ug/m3			04/03/14 03:10	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 03:10	1
Toluene	**5.8**		0.75	0.75	ug/m3			04/03/14 03:10	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 03:10	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 03:10	1
Trichloroethene	ND		1.1	1.1	ug/m3			04/03/14 03:10	1
Trichlorofluoromethane	**3.8**		1.1	1.1	ug/m3			04/03/14 03:10	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 03:10	1
Xylene (total)	**6.6**		0.87	0.87	ug/m3			04/03/14 03:10	1
Xylene, o-	**1.8**		0.87	0.87	ug/m3			04/03/14 03:10	1

Client Sample ID: 7WIA-3-032814
Lab Sample ID: 480-56991-4
Date Collected: 03/28/14 16:50
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
1,2,4-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,2-Dichloroethene, Total	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-3-032814
Date Collected: 03/28/14 16:50
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,3-Butadiene	**0.42**		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/03/14 04:03	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Acetone	**12**		5.0	5.0	ppb v/v			04/03/14 04:03	1
Benzene	**0.29**		0.20	0.20	ppb v/v			04/03/14 04:03	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
cis-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Cyclohexane	**0.39**		0.20	0.20	ppb v/v			04/03/14 04:03	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Dichlorodifluoromethane	**0.72**		0.50	0.50	ppb v/v			04/03/14 04:03	1
Ethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Freon 22	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Isopropyl alcohol	**32**		5.0	5.0	ppb v/v			04/03/14 04:03	1
m,p-Xylene	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Methyl Ethyl Ketone	**0.89**		0.50	0.50	ppb v/v			04/03/14 04:03	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 04:03	1
n-Butane	**1.6**		0.50	0.50	ppb v/v			04/03/14 04:03	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
n-Hexane	**1.9**		0.20	0.20	ppb v/v			04/03/14 04:03	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-3-032814
Date Collected: 03/28/14 16:50
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 04:03	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Tetrachloroethene	**0.47**		0.20	0.20	ppb v/v			04/03/14 04:03	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 04:03	1
Toluene	**4.8**		0.20	0.20	ppb v/v			04/03/14 04:03	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Trichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Trichlorofluoromethane	**2.2**		0.20	0.20	ppb v/v			04/03/14 04:03	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Xylene (total)	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1
Xylene, o-	ND		0.20	0.20	ppb v/v			04/03/14 04:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 04:03	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 04:03	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 04:03	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 04:03	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 04:03	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 04:03	1
1,2,4-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 04:03	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 04:03	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 04:03	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 04:03	1
1,2-Dichloroethene, Total	ND		0.79	0.79	ug/m3			04/03/14 04:03	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 04:03	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 04:03	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 04:03	1
1,3-Butadiene	**0.93**		0.44	0.44	ug/m3			04/03/14 04:03	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 04:03	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 04:03	1
1,4-Dioxane	ND		18	18	ug/m3			04/03/14 04:03	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 04:03	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 04:03	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 04:03	1
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 04:03	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/03/14 04:03	1
Acetone	**29**		12	12	ug/m3			04/03/14 04:03	1
Benzene	**0.92**		0.64	0.64	ug/m3			04/03/14 04:03	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 04:03	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 04:03	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 04:03	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 04:03	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 04:03	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 04:03	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 04:03	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 04:03	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-3-032814
Date Collected: 03/28/14 16:50
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-4
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 04:03	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 04:03	1
Chloromethane	ND		1.0	1.0	ug/m3			04/03/14 04:03	1
cis-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 04:03	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 04:03	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 04:03	1
Cyclohexane	**1.4**		0.69	0.69	ug/m3			04/03/14 04:03	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 04:03	1
Dichlorodifluoromethane	**3.5**		2.5	2.5	ug/m3			04/03/14 04:03	1
Ethylbenzene	ND		0.87	0.87	ug/m3			04/03/14 04:03	1
Freon 22	ND		1.8	1.8	ug/m3			04/03/14 04:03	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 04:03	1
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 04:03	1
Isopropyl alcohol	**78**		12	12	ug/m3			04/03/14 04:03	1
m,p-Xylene	ND		2.2	2.2	ug/m3			04/03/14 04:03	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 04:03	1
Methyl Ethyl Ketone	**2.6**		1.5	1.5	ug/m3			04/03/14 04:03	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 04:03	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/03/14 04:03	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 04:03	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 04:03	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 04:03	1
n-Butane	**3.8**		1.2	1.2	ug/m3			04/03/14 04:03	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 04:03	1
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 04:03	1
n-Hexane	**6.5**		0.70	0.70	ug/m3			04/03/14 04:03	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 04:03	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 04:03	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 04:03	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 04:03	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 04:03	1
Tetrachloroethene	**3.2**		1.4	1.4	ug/m3			04/03/14 04:03	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 04:03	1
Toluene	**18**		0.75	0.75	ug/m3			04/03/14 04:03	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 04:03	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 04:03	1
Trichloroethene	ND		1.1	1.1	ug/m3			04/03/14 04:03	1
Trichlorofluoromethane	**12**		1.1	1.1	ug/m3			04/03/14 04:03	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 04:03	1
Xylene (total)	ND		0.87	0.87	ug/m3			04/03/14 04:03	1
Xylene, o-	ND		0.87	0.87	ug/m3			04/03/14 04:03	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-4-032814
Date Collected: 03/28/14 16:47
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-5
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,1,2,2-Tetrachloroethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,1,2-Trichloroethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,1-Dichloroethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,1-Dichloroethene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,2,4-Trichlorobenzene	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
1,2,4-Trimethylbenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,2-Dibromoethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,2-Dichlorobenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,2-Dichloroethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,2-Dichloroethene, Total	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,2-Dichloropropane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,2-Dichlorotetrafluoroethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,3,5-Trimethylbenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,3-Butadiene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,3-Dichlorobenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,4-Dichlorobenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
1,4-Dioxane	ND		15	15	ppb v/v			04/03/14 16:49	2.99
2,2,4-Trimethylpentane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
2-Chlorotoluene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
3-Chloropropene	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
4-Ethyltoluene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
4-Isopropyltoluene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Acetone	ND		15	15	ppb v/v			04/03/14 16:49	2.99
Benzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Benzyl chloride	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Bromodichloromethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Bromoethene(Vinyl Bromide)	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Bromoform	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Bromomethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Carbon disulfide	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Carbon tetrachloride	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Chlorobenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Chloroethane	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Chloroform	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Chloromethane	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
cis-1,2-Dichloroethene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
cis-1,3-Dichloropropene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Cumene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Cyclohexane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Dibromochloromethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Dichlorodifluoromethane	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Ethylbenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Freon 22	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Freon TF	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Hexachlorobutadiene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Isopropyl alcohol	**88**		15	15	ppb v/v			04/03/14 16:49	2.99
m,p-Xylene	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-4-032814
Date Collected: 03/28/14 16:47
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-5
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Methyl Ethyl Ketone	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
methyl isobutyl ketone	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Methyl methacrylate	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Methyl tert-butyl ether	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Methylene Chloride	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
Naphthalene	ND		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
n-Butane	**2.2**		1.5	1.5	ppb v/v			04/03/14 16:49	2.99
n-Butylbenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
n-Heptane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
n-Hexane	**1.1**		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
n-Propylbenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
sec-Butylbenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Styrene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
tert-Butyl alcohol	ND		15	15	ppb v/v			04/03/14 16:49	2.99
tert-Butylbenzene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Tetrachloroethene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Tetrahydrofuran	ND		15	15	ppb v/v			04/03/14 16:49	2.99
Toluene	**2.0**		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
trans-1,2-Dichloroethene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
trans-1,3-Dichloropropene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Trichloroethene	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Trichlorofluoromethane	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Vinyl chloride	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Xylene (total)	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99
Xylene, o-	ND		0.60	0.60	ppb v/v			04/03/14 16:49	2.99

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.3	3.3	ug/m3			04/03/14 16:49	2.99
1,1,2,2-Tetrachloroethane	ND		4.1	4.1	ug/m3			04/03/14 16:49	2.99
1,1,2-Trichloroethane	ND		3.3	3.3	ug/m3			04/03/14 16:49	2.99
1,1-Dichloroethane	ND		2.4	2.4	ug/m3			04/03/14 16:49	2.99
1,1-Dichloroethene	ND		2.4	2.4	ug/m3			04/03/14 16:49	2.99
1,2,4-Trichlorobenzene	ND		11	11	ug/m3			04/03/14 16:49	2.99
1,2,4-Trimethylbenzene	ND		2.9	2.9	ug/m3			04/03/14 16:49	2.99
1,2-Dibromoethane	ND		4.6	4.6	ug/m3			04/03/14 16:49	2.99
1,2-Dichlorobenzene	ND		3.6	3.6	ug/m3			04/03/14 16:49	2.99
1,2-Dichloroethane	ND		2.4	2.4	ug/m3			04/03/14 16:49	2.99
1,2-Dichloroethene, Total	ND		2.4	2.4	ug/m3			04/03/14 16:49	2.99
1,2-Dichloropropane	ND		2.8	2.8	ug/m3			04/03/14 16:49	2.99
1,2-Dichlorotetrafluoroethane	ND		4.2	4.2	ug/m3			04/03/14 16:49	2.99
1,3,5-Trimethylbenzene	ND		2.9	2.9	ug/m3			04/03/14 16:49	2.99
1,3-Butadiene	ND		1.3	1.3	ug/m3			04/03/14 16:49	2.99
1,3-Dichlorobenzene	ND		3.6	3.6	ug/m3			04/03/14 16:49	2.99
1,4-Dichlorobenzene	ND		3.6	3.6	ug/m3			04/03/14 16:49	2.99
1,4-Dioxane	ND		54	54	ug/m3			04/03/14 16:49	2.99
2,2,4-Trimethylpentane	ND		2.8	2.8	ug/m3			04/03/14 16:49	2.99
2-Chlorotoluene	ND		3.1	3.1	ug/m3			04/03/14 16:49	2.99
3-Chloropropene	ND		4.7	4.7	ug/m3			04/03/14 16:49	2.99

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-4-032814
Date Collected: 03/28/14 16:47
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-5
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		2.9	2.9	ug/m3			04/03/14 16:49	2.99
4-Isopropyltoluene	ND		3.3	3.3	ug/m3			04/03/14 16:49	2.99
Acetone	ND		36	36	ug/m3			04/03/14 16:49	2.99
Benzene	ND		1.9	1.9	ug/m3			04/03/14 16:49	2.99
Benzyl chloride	ND		3.1	3.1	ug/m3			04/03/14 16:49	2.99
Bromodichloromethane	ND		4.0	4.0	ug/m3			04/03/14 16:49	2.99
Bromoethene(Vinyl Bromide)	ND		2.6	2.6	ug/m3			04/03/14 16:49	2.99
Bromoform	ND		6.2	6.2	ug/m3			04/03/14 16:49	2.99
Bromomethane	ND		2.3	2.3	ug/m3			04/03/14 16:49	2.99
Carbon disulfide	ND		4.7	4.7	ug/m3			04/03/14 16:49	2.99
Carbon tetrachloride	ND		3.8	3.8	ug/m3			04/03/14 16:49	2.99
Chlorobenzene	ND		2.8	2.8	ug/m3			04/03/14 16:49	2.99
Chloroethane	ND		3.9	3.9	ug/m3			04/03/14 16:49	2.99
Chloroform	ND		2.9	2.9	ug/m3			04/03/14 16:49	2.99
Chloromethane	ND		3.1	3.1	ug/m3			04/03/14 16:49	2.99
cis-1,2-Dichloroethene	ND		2.4	2.4	ug/m3			04/03/14 16:49	2.99
cis-1,3-Dichloropropene	ND		2.7	2.7	ug/m3			04/03/14 16:49	2.99
Cumene	ND		2.9	2.9	ug/m3			04/03/14 16:49	2.99
Cyclohexane	ND		2.1	2.1	ug/m3			04/03/14 16:49	2.99
Dibromochloromethane	ND		5.1	5.1	ug/m3			04/03/14 16:49	2.99
Dichlorodifluoromethane	ND		7.4	7.4	ug/m3			04/03/14 16:49	2.99
Ethylbenzene	ND		2.6	2.6	ug/m3			04/03/14 16:49	2.99
Freon 22	ND		5.3	5.3	ug/m3			04/03/14 16:49	2.99
Freon TF	ND		4.6	4.6	ug/m3			04/03/14 16:49	2.99
Hexachlorobutadiene	ND		6.4	6.4	ug/m3			04/03/14 16:49	2.99
Isopropyl alcohol	**220**		37	37	ug/m3			04/03/14 16:49	2.99
m,p-Xylene	ND		6.5	6.5	ug/m3			04/03/14 16:49	2.99
Methyl Butyl Ketone (2-Hexanone)	ND		6.1	6.1	ug/m3			04/03/14 16:49	2.99
Methyl Ethyl Ketone	ND		4.4	4.4	ug/m3			04/03/14 16:49	2.99
methyl isobutyl ketone	ND		6.1	6.1	ug/m3			04/03/14 16:49	2.99
Methyl methacrylate	ND		6.1	6.1	ug/m3			04/03/14 16:49	2.99
Methyl tert-butyl ether	ND		2.2	2.2	ug/m3			04/03/14 16:49	2.99
Methylene Chloride	ND		5.2	5.2	ug/m3			04/03/14 16:49	2.99
Naphthalene	ND		7.8	7.8	ug/m3			04/03/14 16:49	2.99
n-Butane	**5.3**		3.6	3.6	ug/m3			04/03/14 16:49	2.99
n-Butylbenzene	ND		3.3	3.3	ug/m3			04/03/14 16:49	2.99
n-Heptane	ND		2.5	2.5	ug/m3			04/03/14 16:49	2.99
n-Hexane	**3.9**		2.1	2.1	ug/m3			04/03/14 16:49	2.99
n-Propylbenzene	ND		2.9	2.9	ug/m3			04/03/14 16:49	2.99
sec-Butylbenzene	ND		3.3	3.3	ug/m3			04/03/14 16:49	2.99
Styrene	ND		2.5	2.5	ug/m3			04/03/14 16:49	2.99
tert-Butyl alcohol	ND		45	45	ug/m3			04/03/14 16:49	2.99
tert-Butylbenzene	ND		3.3	3.3	ug/m3			04/03/14 16:49	2.99
Tetrachloroethene	ND		4.1	4.1	ug/m3			04/03/14 16:49	2.99
Tetrahydrofuran	ND		44	44	ug/m3			04/03/14 16:49	2.99
Toluene	**7.4**		2.3	2.3	ug/m3			04/03/14 16:49	2.99
trans-1,2-Dichloroethene	ND		2.4	2.4	ug/m3			04/03/14 16:49	2.99
trans-1,3-Dichloropropene	ND		2.7	2.7	ug/m3			04/03/14 16:49	2.99

Client Sample ID: 7WIA-4-032814 — **Lab Sample ID: 480-56991-5**

Date Collected: 03/28/14 16:47 — **Matrix: Air**

Date Received: 04/01/14 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		3.2	3.2	ug/m3			04/03/14 16:49	2.99
Trichlorofluoromethane	ND		3.4	3.4	ug/m3			04/03/14 16:49	2.99
Vinyl chloride	ND		1.5	1.5	ug/m3			04/03/14 16:49	2.99
Xylene (total)	ND		2.6	2.6	ug/m3			04/03/14 16:49	2.99
Xylene, o-	ND		2.6	2.6	ug/m3			04/03/14 16:49	2.99

Client Sample ID: 8IA-1-032814 — **Lab Sample ID: 480-56991-6**

Date Collected: 03/28/14 16:20 — **Matrix: Air**

Date Received: 04/01/14 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
1,2,4-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,2-Dichloroethene, Total	**0.34**		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,3-Butadiene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/03/14 05:47	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Acetone	**15**		5.0	5.0	ppb v/v			04/03/14 05:47	1
Benzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-1-032814
Date Collected: 03/28/14 16:20
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-6
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.34**		0.20	0.20	ppb v/v			04/03/14 05:47	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
Ethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Freon 22	**2.2**		0.50	0.50	ppb v/v			04/03/14 05:47	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Isopropyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 05:47	1
m,p-Xylene	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
Methyl Ethyl Ketone	**0.94**		0.50	0.50	ppb v/v			04/03/14 05:47	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
Methyl methacrylate	**0.76**		0.50	0.50	ppb v/v			04/03/14 05:47	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 05:47	1
n-Butane	**4.8**		0.50	0.50	ppb v/v			04/03/14 05:47	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
n-Hexane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 05:47	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Tetrachloroethene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 05:47	1
Toluene	**1.2**		0.20	0.20	ppb v/v			04/03/14 05:47	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Trichloroethene	**0.65**		0.20	0.20	ppb v/v			04/03/14 05:47	1
Trichlorofluoromethane	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Xylene (total)	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1
Xylene, o-	ND		0.20	0.20	ppb v/v			04/03/14 05:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 05:47	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 05:47	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 05:47	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 05:47	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 05:47	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 05:47	1
1,2,4-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 05:47	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 05:47	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 05:47	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-1-032814
Date Collected: 03/28/14 16:20
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-6
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 05:47	1
1,2-Dichloroethene, Total	**1.3**		0.79	0.79	ug/m3			04/03/14 05:47	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 05:47	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 05:47	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 05:47	1
1,3-Butadiene	ND		0.44	0.44	ug/m3			04/03/14 05:47	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 05:47	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 05:47	1
1,4-Dioxane	ND		18	18	ug/m3			04/03/14 05:47	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 05:47	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 05:47	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 05:47	1
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 05:47	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/03/14 05:47	1
Acetone	**34**		12	12	ug/m3			04/03/14 05:47	1
Benzene	ND		0.64	0.64	ug/m3			04/03/14 05:47	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 05:47	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 05:47	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 05:47	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 05:47	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 05:47	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 05:47	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 05:47	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 05:47	1
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 05:47	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 05:47	1
Chloromethane	ND		1.0	1.0	ug/m3			04/03/14 05:47	1
cis-1,2-Dichloroethene	**1.4**		0.79	0.79	ug/m3			04/03/14 05:47	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 05:47	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 05:47	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/03/14 05:47	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 05:47	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/03/14 05:47	1
Ethylbenzene	ND		0.87	0.87	ug/m3			04/03/14 05:47	1
Freon 22	**7.7**		1.8	1.8	ug/m3			04/03/14 05:47	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 05:47	1
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 05:47	1
Isopropyl alcohol	ND		12	12	ug/m3			04/03/14 05:47	1
m,p-Xylene	ND		2.2	2.2	ug/m3			04/03/14 05:47	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 05:47	1
Methyl Ethyl Ketone	**2.8**		1.5	1.5	ug/m3			04/03/14 05:47	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 05:47	1
Methyl methacrylate	**3.1**		2.0	2.0	ug/m3			04/03/14 05:47	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 05:47	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 05:47	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 05:47	1
n-Butane	**11**		1.2	1.2	ug/m3			04/03/14 05:47	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 05:47	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-1-032814 — **Lab Sample ID: 480-56991-6**
Date Collected: 03/28/14 16:20 — **Matrix: Air**
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 05:47	1
n-Hexane	ND		0.70	0.70	ug/m3			04/03/14 05:47	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 05:47	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 05:47	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 05:47	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 05:47	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 05:47	1
Tetrachloroethene	ND		1.4	1.4	ug/m3			04/03/14 05:47	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 05:47	1
Toluene	**4.5**		0.75	0.75	ug/m3			04/03/14 05:47	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 05:47	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 05:47	1
Trichloroethene	**3.5**		1.1	1.1	ug/m3			04/03/14 05:47	1
Trichlorofluoromethane	ND		1.1	1.1	ug/m3			04/03/14 05:47	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 05:47	1
Xylene (total)	ND		0.87	0.87	ug/m3			04/03/14 05:47	1
Xylene, o-	ND		0.87	0.87	ug/m3			04/03/14 05:47	1

Client Sample ID: 8IA-2-032814 — **Lab Sample ID: 480-56991-7**
Date Collected: 03/28/14 17:03 — **Matrix: Air**
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
1,2,4-Trimethylbenzene	**0.21**		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,2-Dichloroethene, Total	**0.41**		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,3-Butadiene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/03/14 06:39	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Acetone	**11**		5.0	5.0	ppb v/v			04/03/14 06:39	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-2-032814
Lab Sample ID: 480-56991-7
Date Collected: 03/28/14 17:03
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.28**		0.20	0.20	ppb v/v			04/03/14 06:39	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
cis-1,2-Dichloroethene	**0.41**		0.20	0.20	ppb v/v			04/03/14 06:39	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
Ethylbenzene	**0.45**		0.20	0.20	ppb v/v			04/03/14 06:39	1
Freon 22	**3.8**		0.50	0.50	ppb v/v			04/03/14 06:39	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Isopropyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 06:39	1
m,p-Xylene	**1.9**		0.50	0.50	ppb v/v			04/03/14 06:39	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
Methyl Ethyl Ketone	**0.67**		0.50	0.50	ppb v/v			04/03/14 06:39	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 06:39	1
n-Butane	**3.5**		0.50	0.50	ppb v/v			04/03/14 06:39	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
n-Hexane	**0.21**		0.20	0.20	ppb v/v			04/03/14 06:39	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 06:39	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Tetrachloroethene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 06:39	1
Toluene	**2.0**		0.20	0.20	ppb v/v			04/03/14 06:39	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1
Trichloroethene	**1.0**		0.20	0.20	ppb v/v			04/03/14 06:39	1
Trichlorofluoromethane	**0.23**		0.20	0.20	ppb v/v			04/03/14 06:39	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 06:39	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-2-032814
Date Collected: 03/28/14 17:03
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-7
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene (total)	**2.5**		0.20	0.20	ppb v/v			04/03/14 06:39	1
Xylene, o-	**0.59**		0.20	0.20	ppb v/v			04/03/14 06:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 06:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 06:39	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 06:39	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 06:39	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 06:39	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 06:39	1
1,2,4-Trimethylbenzene	**1.0**		0.98	0.98	ug/m3			04/03/14 06:39	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 06:39	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 06:39	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 06:39	1
1,2-Dichloroethene, Total	**1.6**		0.79	0.79	ug/m3			04/03/14 06:39	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 06:39	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 06:39	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 06:39	1
1,3-Butadiene	ND		0.44	0.44	ug/m3			04/03/14 06:39	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 06:39	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 06:39	1
1,4-Dioxane	ND		18	18	ug/m3			04/03/14 06:39	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 06:39	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 06:39	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 06:39	1
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 06:39	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/03/14 06:39	1
Acetone	**25**		12	12	ug/m3			04/03/14 06:39	1
Benzene	**0.88**		0.64	0.64	ug/m3			04/03/14 06:39	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 06:39	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 06:39	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 06:39	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 06:39	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 06:39	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 06:39	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 06:39	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 06:39	1
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 06:39	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 06:39	1
Chloromethane	ND		1.0	1.0	ug/m3			04/03/14 06:39	1
cis-1,2-Dichloroethene	**1.6**		0.79	0.79	ug/m3			04/03/14 06:39	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 06:39	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 06:39	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/03/14 06:39	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 06:39	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/03/14 06:39	1
Ethylbenzene	**2.0**		0.87	0.87	ug/m3			04/03/14 06:39	1
Freon 22	**14**		1.8	1.8	ug/m3			04/03/14 06:39	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 06:39	1

Client Sample ID: 8IA-2-032814
Lab Sample ID: 480-56991-7
Date Collected: 03/28/14 17:03
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 06:39	1
Isopropyl alcohol	ND		12	12	ug/m3			04/03/14 06:39	1
m,p-Xylene	**8.3**		2.2	2.2	ug/m3			04/03/14 06:39	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 06:39	1
Methyl Ethyl Ketone	**2.0**		1.5	1.5	ug/m3			04/03/14 06:39	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 06:39	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/03/14 06:39	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 06:39	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 06:39	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 06:39	1
n-Butane	**8.3**		1.2	1.2	ug/m3			04/03/14 06:39	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 06:39	1
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 06:39	1
n-Hexane	**0.75**		0.70	0.70	ug/m3			04/03/14 06:39	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 06:39	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 06:39	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 06:39	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 06:39	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 06:39	1
Tetrachloroethene	ND		1.4	1.4	ug/m3			04/03/14 06:39	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 06:39	1
Toluene	**7.5**		0.75	0.75	ug/m3			04/03/14 06:39	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 06:39	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 06:39	1
Trichloroethene	**5.4**		1.1	1.1	ug/m3			04/03/14 06:39	1
Trichlorofluoromethane	**1.3**		1.1	1.1	ug/m3			04/03/14 06:39	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 06:39	1
Xylene (total)	**11**		0.87	0.87	ug/m3			04/03/14 06:39	1
Xylene, o-	**2.6**		0.87	0.87	ug/m3			04/03/14 06:39	1

Client Sample ID: 8IA-3-032814
Lab Sample ID: 480-56991-8
Date Collected: 03/28/14 17:05
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
1,2,4-Trimethylbenzene	**0.44**		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,2-Dichloroethene, Total	**0.56**		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-3-032814
Date Collected: 03/28/14 17:05
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-8
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,3-Butadiene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/03/14 14:13	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Acetone	**7.8**		5.0	5.0	ppb v/v			04/03/14 14:13	1
Benzene	**0.27**		0.20	0.20	ppb v/v			04/03/14 14:13	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
cis-1,2-Dichloroethene	**0.56**		0.20	0.20	ppb v/v			04/03/14 14:13	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
Ethylbenzene	**0.65**		0.20	0.20	ppb v/v			04/03/14 14:13	1
Freon 22	**2.1**		0.50	0.50	ppb v/v			04/03/14 14:13	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Isopropyl alcohol	**6.0**		5.0	5.0	ppb v/v			04/03/14 14:13	1
m,p-Xylene	**2.9**		0.50	0.50	ppb v/v			04/03/14 14:13	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
Methyl Ethyl Ketone	**0.55**		0.50	0.50	ppb v/v			04/03/14 14:13	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 14:13	1
n-Butane	**3.0**		0.50	0.50	ppb v/v			04/03/14 14:13	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
n-Hexane	**0.23**		0.20	0.20	ppb v/v			04/03/14 14:13	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-3-032814
Date Collected: 03/28/14 17:05
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-8
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 14:13	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Tetrachloroethene	**0.38**		0.20	0.20	ppb v/v			04/03/14 14:13	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 14:13	1
Toluene	**1.5**		0.20	0.20	ppb v/v			04/03/14 14:13	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Trichloroethene	**1.6**		0.20	0.20	ppb v/v			04/03/14 14:13	1
Trichlorofluoromethane	**0.28**		0.20	0.20	ppb v/v			04/03/14 14:13	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 14:13	1
Xylene (total)	**3.8**		0.20	0.20	ppb v/v			04/03/14 14:13	1
Xylene, o-	**0.93**		0.20	0.20	ppb v/v			04/03/14 14:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 14:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 14:13	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 14:13	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 14:13	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 14:13	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 14:13	1
1,2,4-Trimethylbenzene	**2.2**		0.98	0.98	ug/m3			04/03/14 14:13	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 14:13	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 14:13	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 14:13	1
1,2-Dichloroethene, Total	**2.2**		0.79	0.79	ug/m3			04/03/14 14:13	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 14:13	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 14:13	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 14:13	1
1,3-Butadiene	ND		0.44	0.44	ug/m3			04/03/14 14:13	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 14:13	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 14:13	1
1,4-Dioxane	ND		18	18	ug/m3			04/03/14 14:13	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 14:13	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 14:13	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 14:13	1
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 14:13	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/03/14 14:13	1
Acetone	**19**		12	12	ug/m3			04/03/14 14:13	1
Benzene	**0.86**		0.64	0.64	ug/m3			04/03/14 14:13	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 14:13	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 14:13	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 14:13	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 14:13	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 14:13	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 14:13	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 14:13	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 14:13	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-3-032814
Lab Sample ID: 480-56991-8
Date Collected: 03/28/14 17:05
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 14:13	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 14:13	1
Chloromethane	ND		1.0	1.0	ug/m3			04/03/14 14:13	1
cis-1,2-Dichloroethene	**2.2**		0.79	0.79	ug/m3			04/03/14 14:13	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 14:13	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 14:13	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/03/14 14:13	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 14:13	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/03/14 14:13	1
Ethylbenzene	**2.8**		0.87	0.87	ug/m3			04/03/14 14:13	1
Freon 22	**7.6**		1.8	1.8	ug/m3			04/03/14 14:13	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 14:13	1
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 14:13	1
Isopropyl alcohol	**15**		12	12	ug/m3			04/03/14 14:13	1
m,p-Xylene	**12**		2.2	2.2	ug/m3			04/03/14 14:13	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 14:13	1
Methyl Ethyl Ketone	**1.6**		1.5	1.5	ug/m3			04/03/14 14:13	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 14:13	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/03/14 14:13	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 14:13	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 14:13	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 14:13	1
n-Butane	**7.1**		1.2	1.2	ug/m3			04/03/14 14:13	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 14:13	1
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 14:13	1
n-Hexane	**0.79**		0.70	0.70	ug/m3			04/03/14 14:13	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 14:13	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 14:13	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 14:13	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 14:13	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 14:13	1
Tetrachloroethene	**2.6**		1.4	1.4	ug/m3			04/03/14 14:13	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 14:13	1
Toluene	**5.8**		0.75	0.75	ug/m3			04/03/14 14:13	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 14:13	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 14:13	1
Trichloroethene	**8.4**		1.1	1.1	ug/m3			04/03/14 14:13	1
Trichlorofluoromethane	**1.6**		1.1	1.1	ug/m3			04/03/14 14:13	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 14:13	1
Xylene (total)	**17**		0.87	0.87	ug/m3			04/03/14 14:13	1
Xylene, o-	**4.0**		0.87	0.87	ug/m3			04/03/14 14:13	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-2-032814
Date Collected: 03/28/14 16:55
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-9
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
1,2,4-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,2-Dichloroethene, Total	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,3-Butadiene	**0.82**		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/03/14 15:05	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Acetone	**7.2**		5.0	5.0	ppb v/v			04/03/14 15:05	1
Benzene	**0.31**		0.20	0.20	ppb v/v			04/03/14 15:05	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
cis-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Ethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Freon 22	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Isopropyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 15:05	1
m,p-Xylene	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-2-032814
Date Collected: 03/28/14 16:55
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-9
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Methyl Ethyl Ketone	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 15:05	1
n-Butane	**1.2**		0.50	0.50	ppb v/v			04/03/14 15:05	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
n-Hexane	**0.69**		0.20	0.20	ppb v/v			04/03/14 15:05	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 15:05	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Tetrachloroethene	**0.30**		0.20	0.20	ppb v/v			04/03/14 15:05	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 15:05	1
Toluene	**1.1**		0.20	0.20	ppb v/v			04/03/14 15:05	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Trichloroethene	**0.24**		0.20	0.20	ppb v/v			04/03/14 15:05	1
Trichlorofluoromethane	**0.99**		0.20	0.20	ppb v/v			04/03/14 15:05	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Xylene (total)	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1
Xylene, o-	ND		0.20	0.20	ppb v/v			04/03/14 15:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 15:05	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 15:05	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 15:05	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 15:05	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 15:05	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 15:05	1
1,2,4-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 15:05	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 15:05	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 15:05	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 15:05	1
1,2-Dichloroethene, Total	ND		0.79	0.79	ug/m3			04/03/14 15:05	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 15:05	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 15:05	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 15:05	1
1,3-Butadiene	**1.8**		0.44	0.44	ug/m3			04/03/14 15:05	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 15:05	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 15:05	1
1,4-Dioxane	ND		18	18	ug/m3			04/03/14 15:05	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 15:05	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 15:05	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 15:05	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-2-032814
Date Collected: 03/28/14 16:55
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 480-56991-9
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 15:05	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/03/14 15:05	1
Acetone	**17**		12	12	ug/m3			04/03/14 15:05	1
Benzene	**1.0**		0.64	0.64	ug/m3			04/03/14 15:05	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 15:05	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 15:05	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 15:05	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 15:05	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 15:05	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 15:05	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 15:05	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 15:05	1
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 15:05	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 15:05	1
Chloromethane	ND		1.0	1.0	ug/m3			04/03/14 15:05	1
cis-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 15:05	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 15:05	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 15:05	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/03/14 15:05	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 15:05	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/03/14 15:05	1
Ethylbenzene	ND		0.87	0.87	ug/m3			04/03/14 15:05	1
Freon 22	ND		1.8	1.8	ug/m3			04/03/14 15:05	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 15:05	1
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 15:05	1
Isopropyl alcohol	ND		12	12	ug/m3			04/03/14 15:05	1
m,p-Xylene	ND		2.2	2.2	ug/m3			04/03/14 15:05	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 15:05	1
Methyl Ethyl Ketone	ND		1.5	1.5	ug/m3			04/03/14 15:05	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 15:05	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/03/14 15:05	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 15:05	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 15:05	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 15:05	1
n-Butane	**2.8**		1.2	1.2	ug/m3			04/03/14 15:05	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 15:05	1
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 15:05	1
n-Hexane	**2.4**		0.70	0.70	ug/m3			04/03/14 15:05	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 15:05	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 15:05	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 15:05	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 15:05	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 15:05	1
Tetrachloroethene	**2.0**		1.4	1.4	ug/m3			04/03/14 15:05	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 15:05	1
Toluene	**4.0**		0.75	0.75	ug/m3			04/03/14 15:05	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 15:05	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 15:05	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 7WIA-2-032814
Lab Sample ID: 480-56991-9
Date Collected: 03/28/14 16:55
Matrix: Air
Date Received: 04/01/14 10:00
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.3		1.1	1.1	ug/m3			04/03/14 15:05	1
Trichlorofluoromethane	5.6		1.1	1.1	ug/m3			04/03/14 15:05	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 15:05	1
Xylene (total)	ND		0.87	0.87	ug/m3			04/03/14 15:05	1
Xylene, o-	ND		0.87	0.87	ug/m3			04/03/14 15:05	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

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

Lab Sample ID: MB 200-70233/4
Matrix: Air
Analysis Batch: 70233

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
1,2,4-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,2-Dichloroethene, Total	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,3-Butadiene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/02/14 13:18	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Acetone	ND		5.0	5.0	ppb v/v			04/02/14 13:18	1
Benzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Bromoform	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Chloroform	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
cis-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Cumene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Ethylbenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Freon 22	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Freon TF	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Isopropyl alcohol	ND		5.0	5.0	ppb v/v			04/02/14 13:18	1
m,p-Xylene	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1

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

Lab Sample ID: MB 200-70233/4
Matrix: Air
Analysis Batch: 70233

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Methyl Ethyl Ketone	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
n-Butane	ND		0.50	0.50	ppb v/v			04/02/14 13:18	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
n-Hexane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Styrene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/02/14 13:18	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Tetrachloroethene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/02/14 13:18	1
Toluene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Trichloroethene	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Trichlorofluoromethane	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Xylene (total)	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1
Xylene, o-	ND		0.20	0.20	ppb v/v			04/02/14 13:18	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/02/14 13:18	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/02/14 13:18	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/02/14 13:18	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/02/14 13:18	1
1,2,4-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/02/14 13:18	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/02/14 13:18	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/02/14 13:18	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/02/14 13:18	1
1,2-Dichloroethene, Total	ND		0.79	0.79	ug/m3			04/02/14 13:18	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/02/14 13:18	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/02/14 13:18	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/02/14 13:18	1
1,3-Butadiene	ND		0.44	0.44	ug/m3			04/02/14 13:18	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/02/14 13:18	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/02/14 13:18	1
1,4-Dioxane	ND		18	18	ug/m3			04/02/14 13:18	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/02/14 13:18	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/02/14 13:18	1

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

Lab Sample ID: MB 200-70233/4
Matrix: Air
Analysis Batch: 70233

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
3-Chloropropene	ND		1.6	1.6	ug/m3			04/02/14 13:18	1
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/02/14 13:18	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
Acetone	ND		12	12	ug/m3			04/02/14 13:18	1
Benzene	ND		0.64	0.64	ug/m3			04/02/14 13:18	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/02/14 13:18	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/02/14 13:18	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/02/14 13:18	1
Bromoform	ND		2.1	2.1	ug/m3			04/02/14 13:18	1
Bromomethane	ND		0.78	0.78	ug/m3			04/02/14 13:18	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/02/14 13:18	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/02/14 13:18	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/02/14 13:18	1
Chloroethane	ND		1.3	1.3	ug/m3			04/02/14 13:18	1
Chloroform	ND		0.98	0.98	ug/m3			04/02/14 13:18	1
Chloromethane	ND		1.0	1.0	ug/m3			04/02/14 13:18	1
cis-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/02/14 13:18	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/02/14 13:18	1
Cumene	ND		0.98	0.98	ug/m3			04/02/14 13:18	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/02/14 13:18	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/02/14 13:18	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/02/14 13:18	1
Ethylbenzene	ND		0.87	0.87	ug/m3			04/02/14 13:18	1
Freon 22	ND		1.8	1.8	ug/m3			04/02/14 13:18	1
Freon TF	ND		1.5	1.5	ug/m3			04/02/14 13:18	1
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/02/14 13:18	1
Isopropyl alcohol	ND		12	12	ug/m3			04/02/14 13:18	1
m,p-Xylene	ND		2.2	2.2	ug/m3			04/02/14 13:18	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/02/14 13:18	1
Methyl Ethyl Ketone	ND		1.5	1.5	ug/m3			04/02/14 13:18	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/02/14 13:18	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/02/14 13:18	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/02/14 13:18	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/02/14 13:18	1
Naphthalene	ND		2.6	2.6	ug/m3			04/02/14 13:18	1
n-Butane	ND		1.2	1.2	ug/m3			04/02/14 13:18	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
n-Heptane	ND		0.82	0.82	ug/m3			04/02/14 13:18	1
n-Hexane	ND		0.70	0.70	ug/m3			04/02/14 13:18	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/02/14 13:18	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
Styrene	ND		0.85	0.85	ug/m3			04/02/14 13:18	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/02/14 13:18	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
Tetrachloroethene	ND		1.4	1.4	ug/m3			04/02/14 13:18	1
Tetrahydrofuran	ND		15	15	ug/m3			04/02/14 13:18	1
Toluene	ND		0.75	0.75	ug/m3			04/02/14 13:18	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/02/14 13:18	1

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

Lab Sample ID: MB 200-70233/4
Matrix: Air
Analysis Batch: 70233

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/02/14 13:18	1
Trichloroethene	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
Trichlorofluoromethane	ND		1.1	1.1	ug/m3			04/02/14 13:18	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/02/14 13:18	1
Xylene (total)	ND		0.87	0.87	ug/m3			04/02/14 13:18	1
Xylene, o-	ND		0.87	0.87	ug/m3			04/02/14 13:18	1

Lab Sample ID: LCS 200-70233/3
Matrix: Air
Analysis Batch: 70233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.97		ppb v/v		100	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.54		ppb v/v		95	70 - 130
1,1,2-Trichloroethane	10.0	9.37		ppb v/v		94	70 - 130
1,1-Dichloroethane	10.0	8.82		ppb v/v		88	70 - 130
1,1-Dichloroethene	10.0	8.97		ppb v/v		90	70 - 130
1,2,4-Trichlorobenzene	10.0	9.31		ppb v/v		93	70 - 130
1,2,4-Trimethylbenzene	10.0	9.34		ppb v/v		93	70 - 130
1,2-Dibromoethane	10.0	9.61		ppb v/v		96	70 - 130
1,2-Dichlorobenzene	10.0	9.64		ppb v/v		96	70 - 130
1,2-Dichloroethane	10.0	9.77		ppb v/v		98	70 - 130
1,2-Dichloropropane	10.0	9.32		ppb v/v		93	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	9.50		ppb v/v		95	70 - 130
1,3,5-Trimethylbenzene	10.0	9.52		ppb v/v		95	70 - 130
1,3-Butadiene	10.0	7.95		ppb v/v		80	70 - 130
1,3-Dichlorobenzene	10.0	9.68		ppb v/v		97	70 - 130
1,4-Dichlorobenzene	10.0	9.70		ppb v/v		97	70 - 130
1,4-Dioxane	10.0	9.00		ppb v/v		90	70 - 130
2,2,4-Trimethylpentane	10.0	9.58		ppb v/v		96	70 - 130
2-Chlorotoluene	10.0	9.56		ppb v/v		96	70 - 130
3-Chloropropene	10.0	8.44		ppb v/v		84	70 - 130
4-Ethyltoluene	10.0	9.83		ppb v/v		98	70 - 130
4-Isopropyltoluene	10.0	9.58		ppb v/v		96	70 - 130
Acetone	10.0	10.2		ppb v/v		102	70 - 130
Benzene	10.0	9.31		ppb v/v		93	70 - 130
Benzyl chloride	10.0	9.23		ppb v/v		92	70 - 130
Bromodichloromethane	10.0	9.69		ppb v/v		97	70 - 130
Bromoethene(Vinyl Bromide)	10.0	9.07		ppb v/v		91	70 - 130
Bromoform	10.0	9.74		ppb v/v		97	70 - 130
Bromomethane	10.0	8.86		ppb v/v		89	70 - 130
Carbon disulfide	10.0	10.6		ppb v/v		106	70 - 130
Carbon tetrachloride	10.0	9.56		ppb v/v		96	70 - 130
Chlorobenzene	10.0	9.31		ppb v/v		93	70 - 130
Chloroethane	10.0	9.12		ppb v/v		91	70 - 130
Chloroform	10.0	9.34		ppb v/v		93	70 - 130
Chloromethane	10.0	7.88		ppb v/v		79	70 - 130
cis-1,2-Dichloroethene	10.0	9.06		ppb v/v		91	70 - 130

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

Lab Sample ID: LCS 200-70233/3
Matrix: Air
Analysis Batch: 70233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	10.0	9.70		ppb v/v		97	70 - 130
Cumene	10.0	9.52		ppb v/v		95	70 - 130
Cyclohexane	10.0	9.80		ppb v/v		98	70 - 130
Dibromochloromethane	10.0	9.54		ppb v/v		95	70 - 130
Dichlorodifluoromethane	10.0	9.29		ppb v/v		93	70 - 130
Ethylbenzene	10.0	9.56		ppb v/v		96	70 - 130
Freon 22	10.0	8.36		ppb v/v		84	70 - 130
Freon TF	10.0	9.07		ppb v/v		91	70 - 130
Hexachlorobutadiene	10.0	9.26		ppb v/v		93	70 - 130
Isopropyl alcohol	10.0	8.59		ppb v/v		86	70 - 130
m,p-Xylene	20.0	19.1		ppb v/v		96	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	9.59		ppb v/v		96	70 - 130
Methyl Ethyl Ketone	10.0	8.73		ppb v/v		87	70 - 130
methyl isobutyl ketone	10.0	9.85		ppb v/v		99	70 - 130
Methyl methacrylate	10.0	10.2		ppb v/v		102	70 - 130
Methyl tert-butyl ether	10.0	9.34		ppb v/v		93	70 - 130
Methylene Chloride	10.0	9.23		ppb v/v		92	70 - 130
Naphthalene	10.0	9.00		ppb v/v		90	70 - 130
n-Butane	10.0	8.09		ppb v/v		81	70 - 130
n-Butylbenzene	10.0	9.68		ppb v/v		97	70 - 130
n-Heptane	10.0	9.31		ppb v/v		93	70 - 130
n-Hexane	10.0	9.69		ppb v/v		97	70 - 130
n-Propylbenzene	10.0	9.61		ppb v/v		96	70 - 130
sec-Butylbenzene	10.0	9.45		ppb v/v		95	70 - 130
Styrene	10.0	9.48		ppb v/v		95	70 - 130
tert-Butyl alcohol	10.0	8.98		ppb v/v		90	70 - 130
tert-Butylbenzene	10.0	9.49		ppb v/v		95	70 - 130
Tetrachloroethene	10.0	9.32		ppb v/v		93	70 - 130
Tetrahydrofuran	10.0	10.5		ppb v/v		105	70 - 130
Toluene	10.0	9.22		ppb v/v		92	70 - 130
trans-1,2-Dichloroethene	10.0	9.89		ppb v/v		99	70 - 130
trans-1,3-Dichloropropene	10.0	9.76		ppb v/v		98	70 - 130
Trichloroethene	10.0	9.31		ppb v/v		93	70 - 130
Trichlorofluoromethane	10.0	9.35		ppb v/v		93	70 - 130
Vinyl chloride	10.0	7.99		ppb v/v		80	70 - 130
Xylene, o-	10.0	9.35		ppb v/v		93	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	54.4		ug/m3		100	70 - 130
1,1,2,2-Tetrachloroethane	69	65.5		ug/m3		95	70 - 130
1,1,2-Trichloroethane	55	51.1		ug/m3		94	70 - 130
1,1-Dichloroethane	40	35.7		ug/m3		88	70 - 130
1,1-Dichloroethene	40	35.6		ug/m3		90	70 - 130
1,2,4-Trichlorobenzene	74	69.1		ug/m3		93	70 - 130
1,2,4-Trimethylbenzene	49	45.9		ug/m3		93	70 - 130
1,2-Dibromoethane	77	73.8		ug/m3		96	70 - 130
1,2-Dichlorobenzene	60	57.9		ug/m3		96	70 - 130

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

Lab Sample ID: LCS 200-70233/3
Matrix: Air
Analysis Batch: 70233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	40	39.5		ug/m3		98	70 - 130
1,2-Dichloropropane	46	43.1		ug/m3		93	70 - 130
1,2-Dichlorotetrafluoroethane	70	66.4		ug/m3		95	70 - 130
1,3,5-Trimethylbenzene	49	46.8		ug/m3		95	70 - 130
1,3-Butadiene	22	17.6		ug/m3		80	70 - 130
1,3-Dichlorobenzene	60	58.2		ug/m3		97	70 - 130
1,4-Dichlorobenzene	60	58.3		ug/m3		97	70 - 130
1,4-Dioxane	36	32.4		ug/m3		90	70 - 130
2,2,4-Trimethylpentane	47	44.7		ug/m3		96	70 - 130
2-Chlorotoluene	52	49.5		ug/m3		96	70 - 130
3-Chloropropene	31	26.4		ug/m3		84	70 - 130
4-Ethyltoluene	49	48.3		ug/m3		98	70 - 130
4-Isopropyltoluene	55	52.6		ug/m3		96	70 - 130
Acetone	24	24.2		ug/m3		102	70 - 130
Benzene	32	29.8		ug/m3		93	70 - 130
Benzyl chloride	52	47.8		ug/m3		92	70 - 130
Bromodichloromethane	67	64.9		ug/m3		97	70 - 130
Bromoethene(Vinyl Bromide)	44	39.7		ug/m3		91	70 - 130
Bromoform	100	101		ug/m3		97	70 - 130
Bromomethane	39	34.4		ug/m3		89	70 - 130
Carbon disulfide	31	32.9		ug/m3		106	70 - 130
Carbon tetrachloride	63	60.1		ug/m3		96	70 - 130
Chlorobenzene	46	42.9		ug/m3		93	70 - 130
Chloroethane	26	24.1		ug/m3		91	70 - 130
Chloroform	49	45.6		ug/m3		93	70 - 130
Chloromethane	21	16.3		ug/m3		79	70 - 130
cis-1,2-Dichloroethene	40	35.9		ug/m3		91	70 - 130
cis-1,3-Dichloropropene	45	44.0		ug/m3		97	70 - 130
Cumene	49	46.8		ug/m3		95	70 - 130
Cyclohexane	34	33.7		ug/m3		98	70 - 130
Dibromochloromethane	85	81.3		ug/m3		95	70 - 130
Dichlorodifluoromethane	49	45.9		ug/m3		93	70 - 130
Ethylbenzene	43	41.5		ug/m3		96	70 - 130
Freon 22	35	29.6		ug/m3		84	70 - 130
Freon TF	77	69.5		ug/m3		91	70 - 130
Hexachlorobutadiene	110	98.8		ug/m3		93	70 - 130
Isopropyl alcohol	25	21.1		ug/m3		86	70 - 130
m,p-Xylene	87	83.0		ug/m3		96	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	39.3		ug/m3		96	70 - 130
Methyl Ethyl Ketone	29	25.7		ug/m3		87	70 - 130
methyl isobutyl ketone	41	40.4		ug/m3		99	70 - 130
Methyl methacrylate	41	41.7		ug/m3		102	70 - 130
Methyl tert-butyl ether	36	33.7		ug/m3		93	70 - 130
Methylene Chloride	35	32.1		ug/m3		92	70 - 130
Naphthalene	52	47.2		ug/m3		90	70 - 130
n-Butane	24	19.2		ug/m3		81	70 - 130
n-Butylbenzene	55	53.1		ug/m3		97	70 - 130

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

Lab Sample ID: LCS 200-70233/3
Matrix: Air
Analysis Batch: 70233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Heptane	41	38.2		ug/m3		93	70 - 130
n-Hexane	35	34.2		ug/m3		97	70 - 130
n-Propylbenzene	49	47.2		ug/m3		96	70 - 130
sec-Butylbenzene	55	51.9		ug/m3		95	70 - 130
Styrene	43	40.4		ug/m3		95	70 - 130
tert-Butyl alcohol	30	27.2		ug/m3		90	70 - 130
tert-Butylbenzene	55	52.1		ug/m3		95	70 - 130
Tetrachloroethene	68	63.2		ug/m3		93	70 - 130
Tetrahydrofuran	29	31.1		ug/m3		105	70 - 130
Toluene	38	34.7		ug/m3		92	70 - 130
trans-1,2-Dichloroethene	40	39.2		ug/m3		99	70 - 130
trans-1,3-Dichloropropene	45	44.3		ug/m3		98	70 - 130
Trichloroethene	54	50.0		ug/m3		93	70 - 130
Trichlorofluoromethane	56	52.5		ug/m3		93	70 - 130
Vinyl chloride	26	20.4		ug/m3		80	70 - 130
Xylene, o-	43	40.6		ug/m3		93	70 - 130

Lab Sample ID: MB 200-70289/4
Matrix: Air
Analysis Batch: 70289

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,1,2-Trichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,1-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,1-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
1,2,4-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,2-Dibromoethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,2-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,2-Dichloroethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,2-Dichloroethene, Total	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,2-Dichloropropane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,3,5-Trimethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,3-Butadiene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,3-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,4-Dichlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
1,4-Dioxane	ND		5.0	5.0	ppb v/v			04/03/14 13:21	1
2,2,4-Trimethylpentane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
2-Chlorotoluene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
3-Chloropropene	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
4-Ethyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
4-Isopropyltoluene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Acetone	ND		5.0	5.0	ppb v/v			04/03/14 13:21	1
Benzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Benzyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1

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

Lab Sample ID: MB 200-70289/4
Matrix: Air
Analysis Batch: 70289

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Bromoform	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Bromomethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Carbon disulfide	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Carbon tetrachloride	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Chlorobenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Chloroethane	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Chloroform	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Chloromethane	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
cis-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
cis-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Cumene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Cyclohexane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Dibromochloromethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Dichlorodifluoromethane	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Ethylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Freon 22	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Freon TF	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Hexachlorobutadiene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Isopropyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 13:21	1
m,p-Xylene	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Methyl Ethyl Ketone	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
methyl isobutyl ketone	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Methyl methacrylate	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Methyl tert-butyl ether	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Methylene Chloride	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
Naphthalene	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
n-Butane	ND		0.50	0.50	ppb v/v			04/03/14 13:21	1
n-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
n-Heptane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
n-Hexane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
n-Propylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
sec-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Styrene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
tert-Butyl alcohol	ND		5.0	5.0	ppb v/v			04/03/14 13:21	1
tert-Butylbenzene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Tetrachloroethene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Tetrahydrofuran	ND		5.0	5.0	ppb v/v			04/03/14 13:21	1
Toluene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
trans-1,2-Dichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
trans-1,3-Dichloropropene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Trichloroethene	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Trichlorofluoromethane	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Vinyl chloride	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Xylene (total)	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1
Xylene, o-	ND		0.20	0.20	ppb v/v			04/03/14 13:21	1

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

Lab Sample ID: MB 200-70289/4
Matrix: Air
Analysis Batch: 70289

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
1,1,2,2-Tetrachloroethane	ND		1.4	1.4	ug/m3			04/03/14 13:21	1
1,1,2-Trichloroethane	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
1,1-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 13:21	1
1,1-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 13:21	1
1,2,4-Trichlorobenzene	ND		3.7	3.7	ug/m3			04/03/14 13:21	1
1,2,4-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 13:21	1
1,2-Dibromoethane	ND		1.5	1.5	ug/m3			04/03/14 13:21	1
1,2-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 13:21	1
1,2-Dichloroethane	ND		0.81	0.81	ug/m3			04/03/14 13:21	1
1,2-Dichloroethene, Total	ND		0.79	0.79	ug/m3			04/03/14 13:21	1
1,2-Dichloropropane	ND		0.92	0.92	ug/m3			04/03/14 13:21	1
1,2-Dichlorotetrafluoroethane	ND		1.4	1.4	ug/m3			04/03/14 13:21	1
1,3,5-Trimethylbenzene	ND		0.98	0.98	ug/m3			04/03/14 13:21	1
1,3-Butadiene	ND		0.44	0.44	ug/m3			04/03/14 13:21	1
1,3-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 13:21	1
1,4-Dichlorobenzene	ND		1.2	1.2	ug/m3			04/03/14 13:21	1
1,4-Dioxane	ND		18	18	ug/m3			04/03/14 13:21	1
2,2,4-Trimethylpentane	ND		0.93	0.93	ug/m3			04/03/14 13:21	1
2-Chlorotoluene	ND		1.0	1.0	ug/m3			04/03/14 13:21	1
3-Chloropropene	ND		1.6	1.6	ug/m3			04/03/14 13:21	1
4-Ethyltoluene	ND		0.98	0.98	ug/m3			04/03/14 13:21	1
4-Isopropyltoluene	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
Acetone	ND		12	12	ug/m3			04/03/14 13:21	1
Benzene	ND		0.64	0.64	ug/m3			04/03/14 13:21	1
Benzyl chloride	ND		1.0	1.0	ug/m3			04/03/14 13:21	1
Bromodichloromethane	ND		1.3	1.3	ug/m3			04/03/14 13:21	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.87	ug/m3			04/03/14 13:21	1
Bromoform	ND		2.1	2.1	ug/m3			04/03/14 13:21	1
Bromomethane	ND		0.78	0.78	ug/m3			04/03/14 13:21	1
Carbon disulfide	ND		1.6	1.6	ug/m3			04/03/14 13:21	1
Carbon tetrachloride	ND		1.3	1.3	ug/m3			04/03/14 13:21	1
Chlorobenzene	ND		0.92	0.92	ug/m3			04/03/14 13:21	1
Chloroethane	ND		1.3	1.3	ug/m3			04/03/14 13:21	1
Chloroform	ND		0.98	0.98	ug/m3			04/03/14 13:21	1
Chloromethane	ND		1.0	1.0	ug/m3			04/03/14 13:21	1
cis-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 13:21	1
cis-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 13:21	1
Cumene	ND		0.98	0.98	ug/m3			04/03/14 13:21	1
Cyclohexane	ND		0.69	0.69	ug/m3			04/03/14 13:21	1
Dibromochloromethane	ND		1.7	1.7	ug/m3			04/03/14 13:21	1
Dichlorodifluoromethane	ND		2.5	2.5	ug/m3			04/03/14 13:21	1
Ethylbenzene	ND		0.87	0.87	ug/m3			04/03/14 13:21	1
Freon 22	ND		1.8	1.8	ug/m3			04/03/14 13:21	1
Freon TF	ND		1.5	1.5	ug/m3			04/03/14 13:21	1
Hexachlorobutadiene	ND		2.1	2.1	ug/m3			04/03/14 13:21	1
Isopropyl alcohol	ND		12	12	ug/m3			04/03/14 13:21	1
m,p-Xylene	ND		2.2	2.2	ug/m3			04/03/14 13:21	1

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

Lab Sample ID: MB 200-70289/4
Matrix: Air
Analysis Batch: 70289

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0	ug/m3			04/03/14 13:21	1
Methyl Ethyl Ketone	ND		1.5	1.5	ug/m3			04/03/14 13:21	1
methyl isobutyl ketone	ND		2.0	2.0	ug/m3			04/03/14 13:21	1
Methyl methacrylate	ND		2.0	2.0	ug/m3			04/03/14 13:21	1
Methyl tert-butyl ether	ND		0.72	0.72	ug/m3			04/03/14 13:21	1
Methylene Chloride	ND		1.7	1.7	ug/m3			04/03/14 13:21	1
Naphthalene	ND		2.6	2.6	ug/m3			04/03/14 13:21	1
n-Butane	ND		1.2	1.2	ug/m3			04/03/14 13:21	1
n-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
n-Heptane	ND		0.82	0.82	ug/m3			04/03/14 13:21	1
n-Hexane	ND		0.70	0.70	ug/m3			04/03/14 13:21	1
n-Propylbenzene	ND		0.98	0.98	ug/m3			04/03/14 13:21	1
sec-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
Styrene	ND		0.85	0.85	ug/m3			04/03/14 13:21	1
tert-Butyl alcohol	ND		15	15	ug/m3			04/03/14 13:21	1
tert-Butylbenzene	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
Tetrachloroethene	ND		1.4	1.4	ug/m3			04/03/14 13:21	1
Tetrahydrofuran	ND		15	15	ug/m3			04/03/14 13:21	1
Toluene	ND		0.75	0.75	ug/m3			04/03/14 13:21	1
trans-1,2-Dichloroethene	ND		0.79	0.79	ug/m3			04/03/14 13:21	1
trans-1,3-Dichloropropene	ND		0.91	0.91	ug/m3			04/03/14 13:21	1
Trichloroethene	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
Trichlorofluoromethane	ND		1.1	1.1	ug/m3			04/03/14 13:21	1
Vinyl chloride	ND		0.51	0.51	ug/m3			04/03/14 13:21	1
Xylene (total)	ND		0.87	0.87	ug/m3			04/03/14 13:21	1
Xylene, o-	ND		0.87	0.87	ug/m3			04/03/14 13:21	1

Lab Sample ID: LCS 200-70289/3
Matrix: Air
Analysis Batch: 70289

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.78		ppb v/v		98	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.21		ppb v/v		92	70 - 130
1,1,2-Trichloroethane	10.0	9.22		ppb v/v		92	70 - 130
1,1-Dichloroethane	10.0	8.39		ppb v/v		84	70 - 130
1,1-Dichloroethene	10.0	8.93		ppb v/v		89	70 - 130
1,2,4-Trichlorobenzene	10.0	9.28		ppb v/v		93	70 - 130
1,2,4-Trimethylbenzene	10.0	9.28		ppb v/v		93	70 - 130
1,2-Dibromoethane	10.0	9.56		ppb v/v		96	70 - 130
1,2-Dichlorobenzene	10.0	9.56		ppb v/v		96	70 - 130
1,2-Dichloroethane	10.0	9.42		ppb v/v		94	70 - 130
1,2-Dichloropropane	10.0	8.72		ppb v/v		87	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	9.44		ppb v/v		94	70 - 130
1,3,5-Trimethylbenzene	10.0	9.42		ppb v/v		94	70 - 130
1,3-Butadiene	10.0	8.13		ppb v/v		81	70 - 130
1,3-Dichlorobenzene	10.0	9.56		ppb v/v		96	70 - 130
1,4-Dichlorobenzene	10.0	9.64		ppb v/v		96	70 - 130

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

Lab Sample ID: LCS 200-70289/3
Matrix: Air
Analysis Batch: 70289

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	8.93		ppb v/v		89	70 - 130
2,2,4-Trimethylpentane	10.0	8.88		ppb v/v		89	70 - 130
2-Chlorotoluene	10.0	9.38		ppb v/v		94	70 - 130
3-Chloropropene	10.0	7.59		ppb v/v		76	70 - 130
4-Ethyltoluene	10.0	9.76		ppb v/v		98	70 - 130
4-Isopropyltoluene	10.0	9.51		ppb v/v		95	70 - 130
Acetone	10.0	9.30		ppb v/v		93	70 - 130
Benzene	10.0	9.00		ppb v/v		90	70 - 130
Benzyl chloride	10.0	9.15		ppb v/v		91	70 - 130
Bromodichloromethane	10.0	9.42		ppb v/v		94	70 - 130
Bromoethene(Vinyl Bromide)	10.0	8.79		ppb v/v		88	70 - 130
Bromoform	10.0	9.52		ppb v/v		95	70 - 130
Bromomethane	10.0	8.51		ppb v/v		85	70 - 130
Carbon disulfide	10.0	10.1		ppb v/v		101	70 - 130
Carbon tetrachloride	10.0	9.47		ppb v/v		95	70 - 130
Chlorobenzene	10.0	9.32		ppb v/v		93	70 - 130
Chloroethane	10.0	8.60		ppb v/v		86	70 - 130
Chloroform	10.0	9.21		ppb v/v		92	70 - 130
Chloromethane	10.0	8.07		ppb v/v		81	70 - 130
cis-1,2-Dichloroethene	10.0	8.90		ppb v/v		89	70 - 130
cis-1,3-Dichloropropene	10.0	9.39		ppb v/v		94	70 - 130
Cumene	10.0	9.48		ppb v/v		95	70 - 130
Cyclohexane	10.0	9.49		ppb v/v		95	70 - 130
Dibromochloromethane	10.0	9.52		ppb v/v		95	70 - 130
Dichlorodifluoromethane	10.0	8.99		ppb v/v		90	70 - 130
Ethylbenzene	10.0	9.32		ppb v/v		93	70 - 130
Freon 22	10.0	8.62		ppb v/v		86	70 - 130
Freon TF	10.0	8.97		ppb v/v		90	70 - 130
Hexachlorobutadiene	10.0	8.86		ppb v/v		89	70 - 130
Isopropyl alcohol	10.0	7.79		ppb v/v		78	70 - 130
m,p-Xylene	20.0	18.7		ppb v/v		94	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	8.77		ppb v/v		88	70 - 130
Methyl Ethyl Ketone	10.0	8.31		ppb v/v		83	70 - 130
methyl isobutyl ketone	10.0	8.89		ppb v/v		89	70 - 130
Methyl methacrylate	10.0	9.64		ppb v/v		96	70 - 130
Methyl tert-butyl ether	10.0	9.21		ppb v/v		92	70 - 130
Methylene Chloride	10.0	8.40		ppb v/v		84	70 - 130
Naphthalene	10.0	9.04		ppb v/v		90	70 - 130
n-Butane	10.0	8.23		ppb v/v		82	70 - 130
n-Butylbenzene	10.0	9.49		ppb v/v		95	70 - 130
n-Heptane	10.0	8.40		ppb v/v		84	70 - 130
n-Hexane	10.0	9.01		ppb v/v		90	70 - 130
n-Propylbenzene	10.0	9.43		ppb v/v		94	70 - 130
sec-Butylbenzene	10.0	9.33		ppb v/v		93	70 - 130
Styrene	10.0	9.42		ppb v/v		94	70 - 130
tert-Butyl alcohol	10.0	8.57		ppb v/v		86	70 - 130
tert-Butylbenzene	10.0	9.46		ppb v/v		95	70 - 130

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

Lab Sample ID: LCS 200-70289/3
Matrix: Air
Analysis Batch: 70289

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	10.0	9.30		ppb v/v		93	70 - 130
Tetrahydrofuran	10.0	9.35		ppb v/v		94	70 - 130
Toluene	10.0	9.21		ppb v/v		92	70 - 130
trans-1,2-Dichloroethene	10.0	9.37		ppb v/v		94	70 - 130
trans-1,3-Dichloropropene	10.0	9.51		ppb v/v		95	70 - 130
Trichloroethene	10.0	9.15		ppb v/v		91	70 - 130
Trichlorofluoromethane	10.0	9.13		ppb v/v		91	70 - 130
Vinyl chloride	10.0	8.11		ppb v/v		81	70 - 130
Xylene, o-	10.0	9.30		ppb v/v		93	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	53.4		ug/m3		98	70 - 130
1,1,2,2-Tetrachloroethane	69	63.2		ug/m3		92	70 - 130
1,1,2-Trichloroethane	55	50.3		ug/m3		92	70 - 130
1,1-Dichloroethane	40	34.0		ug/m3		84	70 - 130
1,1-Dichloroethene	40	35.4		ug/m3		89	70 - 130
1,2,4-Trichlorobenzene	74	68.9		ug/m3		93	70 - 130
1,2,4-Trimethylbenzene	49	45.6		ug/m3		93	70 - 130
1,2-Dibromoethane	77	73.5		ug/m3		96	70 - 130
1,2-Dichlorobenzene	60	57.5		ug/m3		96	70 - 130
1,2-Dichloroethane	40	38.1		ug/m3		94	70 - 130
1,2-Dichloropropane	46	40.3		ug/m3		87	70 - 130
1,2-Dichlorotetrafluoroethane	70	66.0		ug/m3		94	70 - 130
1,3,5-Trimethylbenzene	49	46.3		ug/m3		94	70 - 130
1,3-Butadiene	22	18.0		ug/m3		81	70 - 130
1,3-Dichlorobenzene	60	57.5		ug/m3		96	70 - 130
1,4-Dichlorobenzene	60	58.0		ug/m3		96	70 - 130
1,4-Dioxane	36	32.2		ug/m3		89	70 - 130
2,2,4-Trimethylpentane	47	41.5		ug/m3		89	70 - 130
2-Chlorotoluene	52	48.6		ug/m3		94	70 - 130
3-Chloropropene	31	23.8		ug/m3		76	70 - 130
4-Ethyltoluene	49	48.0		ug/m3		98	70 - 130
4-Isopropyltoluene	55	52.2		ug/m3		95	70 - 130
Acetone	24	22.1		ug/m3		93	70 - 130
Benzene	32	28.7		ug/m3		90	70 - 130
Benzyl chloride	52	47.3		ug/m3		91	70 - 130
Bromodichloromethane	67	63.1		ug/m3		94	70 - 130
Bromoethene(Vinyl Bromide)	44	38.4		ug/m3		88	70 - 130
Bromoform	100	98.4		ug/m3		95	70 - 130
Bromomethane	39	33.0		ug/m3		85	70 - 130
Carbon disulfide	31	31.6		ug/m3		101	70 - 130
Carbon tetrachloride	63	59.6		ug/m3		95	70 - 130
Chlorobenzene	46	42.9		ug/m3		93	70 - 130
Chloroethane	26	22.7		ug/m3		86	70 - 130
Chloroform	49	45.0		ug/m3		92	70 - 130
Chloromethane	21	16.7		ug/m3		81	70 - 130
cis-1,2-Dichloroethene	40	35.3		ug/m3		89	70 - 130
cis-1,3-Dichloropropene	45	42.6		ug/m3		94	70 - 130

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

Lab Sample ID: LCS 200-70289/3
Matrix: Air
Analysis Batch: 70289

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cumene	49	46.6		ug/m3		95	70 - 130
Cyclohexane	34	32.7		ug/m3		95	70 - 130
Dibromochloromethane	85	81.1		ug/m3		95	70 - 130
Dichlorodifluoromethane	49	44.5		ug/m3		90	70 - 130
Ethylbenzene	43	40.5		ug/m3		93	70 - 130
Freon 22	35	30.5		ug/m3		86	70 - 130
Freon TF	77	68.8		ug/m3		90	70 - 130
Hexachlorobutadiene	110	94.5		ug/m3		89	70 - 130
Isopropyl alcohol	25	19.2		ug/m3		78	70 - 130
m,p-Xylene	87	81.3		ug/m3		94	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	35.9		ug/m3		88	70 - 130
Methyl Ethyl Ketone	29	24.5		ug/m3		83	70 - 130
methyl isobutyl ketone	41	36.4		ug/m3		89	70 - 130
Methyl methacrylate	41	39.5		ug/m3		96	70 - 130
Methyl tert-butyl ether	36	33.2		ug/m3		92	70 - 130
Methylene Chloride	35	29.2		ug/m3		84	70 - 130
Naphthalene	52	47.4		ug/m3		90	70 - 130
n-Butane	24	19.6		ug/m3		82	70 - 130
n-Butylbenzene	55	52.1		ug/m3		95	70 - 130
n-Heptane	41	34.4		ug/m3		84	70 - 130
n-Hexane	35	31.8		ug/m3		90	70 - 130
n-Propylbenzene	49	46.4		ug/m3		94	70 - 130
sec-Butylbenzene	55	51.2		ug/m3		93	70 - 130
Styrene	43	40.1		ug/m3		94	70 - 130
tert-Butyl alcohol	30	26.0		ug/m3		86	70 - 130
tert-Butylbenzene	55	51.9		ug/m3		95	70 - 130
Tetrachloroethene	68	63.1		ug/m3		93	70 - 130
Tetrahydrofuran	29	27.6		ug/m3		94	70 - 130
Toluene	38	34.7		ug/m3		92	70 - 130
trans-1,2-Dichloroethene	40	37.1		ug/m3		94	70 - 130
trans-1,3-Dichloropropene	45	43.2		ug/m3		95	70 - 130
Trichloroethene	54	49.1		ug/m3		91	70 - 130
Trichlorofluoromethane	56	51.3		ug/m3		91	70 - 130
Vinyl chloride	26	20.7		ug/m3		81	70 - 130
Xylene, o-	43	40.4		ug/m3		93	70 - 130

Air - GC/MS VOA

Analysis Batch: 70233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56991-1	7AIA-1-032814	Total/NA	Air	TO-15	
480-56991-3	7WIA-1-032814	Total/NA	Air	TO-15	
480-56991-4	7WIA-3-032814	Total/NA	Air	TO-15	
480-56991-6	8IA-1-032814	Total/NA	Air	TO-15	
480-56991-7	8IA-2-032814	Total/NA	Air	TO-15	
LCS 200-70233/3	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-70233/4	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 70289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56991-2	7EIA-1-032814	Total/NA	Air	TO-15	
480-56991-5	7WIA-4-032814	Total/NA	Air	TO-15	
480-56991-8	8IA-3-032814	Total/NA	Air	TO-15	
480-56991-9	7WIA-2-032814	Total/NA	Air	TO-15	
LCS 200-70289/3	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-70289/4	Method Blank	Total/NA	Air	TO-15	

Client Sample ID: 7AIA-1-032814 — **Lab Sample ID: 480-56991-1**
Date Collected: 03/28/14 16:10 — **Matrix: Air**
Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	70233	04/03/14 01:26	PAD	TAL BUR

Client Sample ID: 7EIA-1-032814 — **Lab Sample ID: 480-56991-2**
Date Collected: 03/28/14 16:21 — **Matrix: Air**
Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	70289	04/03/14 15:57	PAD	TAL BUR

Client Sample ID: 7WIA-1-032814 — **Lab Sample ID: 480-56991-3**
Date Collected: 03/28/14 15:28 — **Matrix: Air**
Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	70233	04/03/14 03:10	PAD	TAL BUR

Client Sample ID: 7WIA-3-032814 — **Lab Sample ID: 480-56991-4**
Date Collected: 03/28/14 16:50 — **Matrix: Air**
Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	70233	04/03/14 04:03	PAD	TAL BUR

Client Sample ID: 7WIA-4-032814 — **Lab Sample ID: 480-56991-5**
Date Collected: 03/28/14 16:47 — **Matrix: Air**
Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.99	70289	04/03/14 16:49	PAD	TAL BUR

Client Sample ID: 8IA-1-032814 — **Lab Sample ID: 480-56991-6**
Date Collected: 03/28/14 16:20 — **Matrix: Air**
Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	70233	04/03/14 05:47	PAD	TAL BUR

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Client Sample ID: 8IA-2-032814

Lab Sample ID: 480-56991-7

Date Collected: 03/28/14 17:03

Matrix: Air

Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	70233	04/03/14 06:39	PAD	TAL BUR

Client Sample ID: 8IA-3-032814

Lab Sample ID: 480-56991-8

Date Collected: 03/28/14 17:05

Matrix: Air

Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	70289	04/03/14 14:13	PAD	TAL BUR

Client Sample ID: 7WIA-2-032814

Lab Sample ID: 480-56991-9

Date Collected: 03/28/14 16:55

Matrix: Air

Date Received: 04/01/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	70289	04/03/14 15:05	PAD	TAL BUR

Laboratory References:

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-14 *

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	02-26-17
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-14 *
New York	NELAP	2	10391	04-01-15
Pennsylvania	NELAP	3	68-00489	04-30-14 *
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 058507, GM-Lockport Vapor Intrusion

TestAmerica Job ID: 480-56991-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-56991-1	7AIA-1-032814	Air	03/28/14 16:10	04/01/14 10:00
480-56991-2	7EIA-1-032814	Air	03/28/14 16:21	04/01/14 10:00
480-56991-3	7WIA-1-032814	Air	03/28/14 15:28	04/01/14 10:00
480-56991-4	7WIA-3-032814	Air	03/28/14 16:50	04/01/14 10:00
480-56991-5	7WIA-4-032814	Air	03/28/14 16:47	04/01/14 10:00
480-56991-6	8IA-1-032814	Air	03/28/14 16:20	04/01/14 10:00
480-56991-7	8IA-2-032814	Air	03/28/14 17:03	04/01/14 10:00
480-56991-8	8IA-3-032814	Air	03/28/14 17:05	04/01/14 10:00
480-56991-9	7WIA-2-032814	Air	03/28/14 16:55	04/01/14 10:00

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

Canister Samples Chain of Custody Re

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection

480-56991 Chain of Custody

Client Contact Information	Project Manager: Christopher Boron	Samples Collected By: T. Bohler
Company: GZA GeoEnvironmental	Phone: 716-685-2300	1 of 2 COCs
Address: 535 Washington St	Email: christopher.boron@gza.com	
City/State/Zip Buffalo, NY 14203		
Phone: 716 685-2300	Site Contact: T. Bohler	
FAX:	TA Contact: M. Deyo	
Project Name: GMCH Lockport	**Analysis Turnaround Time**	
Site: Indoor Air Samples	Standard (Specify) 2	
~~PO#~~ SSOW ~~23019~~ 256021	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
7AIA-1-032814	3/28/14	808	1610	-23.5	-4.5	7657	2641	X											
7EIA-1-032814		824	1621	-30	-5.5	7249	5035	X											
7WIA-1-032814		838	1528	-28	-4.5	7656	5633	X											
~~7WIA-2-032814~~		~~848~~	—	~~-30~~	—	~~7198~~	~~3440~~	~~X~~											
7WIA-3-032814		900	1650	-29.5	-6	7991	4361	X											
7WIA-4-032814		907	1647	-30	-9	7994	5068	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

CUS 4/1/14

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Thomas Bohler	Date/Time: 3/28/14/1730	Samples Received by: UPS
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time: 4/1/14 1000	Received by: TASURL

Custody Seal No.: Cooler Temp.: Opened by: Condition:

4/4/2014

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

Canister Samples Chain of Custody Record

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

Client Contact Information	Project Manager: C. Boron	Samples Collected By: T. Bohlen
Company: GZA GeoEnvironmental	Phone: 716-685-2300	2 of 2 COCs
Address: 535 Washington St.	Email: christopher.boron@gza.com	
City/State/Zip: Buffalo, NY 14203	Site Contact: T. Bohlen	
Phone: 716-685-2300	TA Contact: M. Deyo	
FAX:	**Analysis Turnaround Time**	
Project Name: GMCH Lockport	Standard (Specify) X	
Site: Indoor Air Samples	Rush (Specify)	
~~PO#~~ SSOW ~~#560192560021~~		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Soil/Soil Vapor	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
8IA-1-032814	3/28/14	920	1620	-28.5	-4.5	7307	4464	X											
8IA-2-032814	↓	932	1703	-27	-6	4767	3762	X											
8IA-3-032814	↓	957	1705	>-30	-11	5782	2534	X											
7WIA-2-032814	3/28/14	1115	1655	-27.5	-10	7192	4225	X											

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Thomas Bohlen	Date/Time: 3/28/14 1730	Samples Received by: UPS
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time: 4/1/14 1000	Received by: [signature] FAS/K

Lab Use Only: Cooler/Blank Shipped Name: Opened by: Condition:

cmg 4/1/14

4/4/2014

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 480-56991-1

Login Number: 56991
List Number: 2
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 04/01/14 04:02 PM

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

Pre-Shipment Clean Canister Certification Rep

200-21507-A-4
3508
Location: In-Storage
Bottle: Summa Canister 6L
Samples: 3/22/2014 12:00 AM 200-639473

Loc: 200
21507
#4
A

Certification Type: ☒ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size
TOP	25	3/22/14	MC	(6L) 1L 3L

Port	Can ID	Leak Test: Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	5035	-29.8	-30.1	-29.7	0.4
2	2534				
3	5633				
4	3508				
5	4464				
6	5068				
7	3255				
8	5089				
9	3762				
10	4225				
11	3040				
12	2641				

Initial Reading	Final Reading
Gauge ID: G13	Gauge ID: G13
Date: 3/24/14	Date: 3/25/14
Time: 930	Time: 1500
Tech: MC	Tech: VS
BP: 29.8 ("Hg)	BP: 29.7 ("Hg)
Temp 72 (°C)	Temp: 22 (°C)

[3]Acceptance Criteria:
(1) The difference must be less than or equal to + 0.5
(2) Pressure readings must be at least 24 hours apart.
If time frame was not met, the PM must authorize shipment of canister:
PM Authorization:

Signature Date

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

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
3508	3/25/14	66772 (6)	BL		✓				3/25/14	ANL

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.
Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.
Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.
Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.
Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

200-21510-A-4
3427
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 3/22/2014 12:00 AM 200-639505

Loc: 200
21510
#4
A

Pre-Shipment Clean Canister Certification Rep

Certification Type: ☒ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		
ARN 3/4	25	3/22/14	MT	6L	1L	3L

Leak Test

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	4093	-29.8	-30.1	-29.7	0.4
2	4361				
3	4100				
4	3437				
5	4335				
6	4150				
7	509				
8	3538				
9	3553				
10	5442				
11	3515				
12	4907				

Initial Reading	Final Reading
Gauge ID: 613	Gauge ID: G13
Date: 3/24/14	Date: 3/25/14
Time: 1030	Time: 1540
Tech: MC	Tech: VS
BP: 29.8 ("Hg)	BP: 29.7 ("Hg)
Temp 22 (°C)	Temp: 22 (°C)

[3]Acceptance Criteria:
(1) The difference must be less than or equal to + 0.5
(2) Pressure readings must be at least 24 hours apart.
If time frame was not met, the PM must authorize shipment of canister:
PM Authorization:

Signature Date

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

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

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

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
5442										
3437	3/25/14	60672 (6)	BL		✓				3/25/14	AMH

MS 3/22/14

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.
Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.
Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.
Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.
Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

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

Lab Name: TestAmerica Burlington Job No.: 200-21507-1

SDG No.:

Client Sample ID: 3508 Lab Sample ID: 200-21507-4

Matrix: Air Lab File ID: 6672_006.D

Analysis Method: TO-15 Date Collected: 03/22/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/24/2014 15:31

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69811 Units: ppb v/v

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21507-1

SDG No.:

Client Sample ID: 3508 Lab Sample ID: 200-21507-4

Matrix: Air Lab File ID: 6672_006.D

Analysis Method: TO-15 Date Collected: 03/22/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/24/2014 15:31

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69811 Units: ppb v/v

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21507-1

SDG No.:

Client Sample ID: 3508 Lab Sample ID: 200-21507-4

Matrix: Air Lab File ID: 6672_006.D

Analysis Method: TO-15 Date Collected: 03/22/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/24/2014 15:31

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69811 Units: ppb v/v

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

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140324-6672.b\6672_006.D
Lims ID: 200-21507-A-4 Lab Sample ID: 200-21507-4
Client ID: 3508
Sample Type: Client
Inject. Date: 24-Mar-2014 15:31:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0006672-006
Misc. Info.: 200-21507-a-4
Operator ID: WRD Instrument ID: CHG.i

Method: \\BTV-LIMS1\ChromData\CHG.i\20140324-6672.b\TO15_LLNJ_TO3_G.m
Limit Group: AI_TO15_ICAL
Last Update: 25-Mar-2014 04:46:48 Calib Date: 20-Feb-2014 21:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHG.i\20140220-6246.b\6246_013.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: lyonsb Date: 24-Mar-2014 16:45:21

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
1 Propene	41		3.058					
2 Dichlorodifluoromethane	85		3.133					
6 Chlorodifluoromethane	51		3.181					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.405					
8 Chloromethane	50		3.539					
9 Butane	43		3.753					
10 Vinyl chloride	62		3.791					
11 Butadiene	54		3.876					
12 Bromomethane	94		4.572					
14 Chloroethane	64		4.818					
16 Vinyl bromide	106		5.219					
17 Trichlorofluoromethane	101		5.342					
19 Ethanol	45		5.909					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.460					
24 1,1-Dichloroethene	96		6.481					
25 Acetone	43		6.701					
26 Carbon disulfide	76		6.867					
27 Isopropyl alcohol	45		7.027					
29 3-Chloro-1-propene	41		7.284					
31 Methylene Chloride	49		7.573					
32 2-Methyl-2-propanol	59		7.824					
33 Methyl tert-butyl ether	73		8.022					
34 trans-1,2-Dichloroethene	61		8.038					
36 Hexane	57		8.477					
37 1,1-Dichloroethane	63		8.921					
38 Vinyl acetate	43		9.023					
39 cis-1,2-Dichloroethene	96		10.060					
40 2-Butanone (MEK)	72		10.103					
42 Ethyl acetate	88		10.183					
S 41 1,2-Dichloroethene, Total	61		10.200					
* 43 Chlorobromomethane	128	10.531	10.531	0.0	70	544789	10.0	

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
	44 Tetrahydrofuran	42		10.553				
	45 Chloroform	83		10.676				
	46 Cyclohexane	84		10.970				
	47 1,1,1-Trichloroethane	97		10.981				
	48 Carbon tetrachloride	117		11.248				
	50 Benzene	78		11.714				
	51 Isooctane	57		11.740				
	52 1,2-Dichloroethane	62		11.879				
	53 n-Heptane	43		12.152				
*	54 1,4-Difluorobenzene	114	12.591	12.591	0.0	92	2963595	10.0
	56 Trichloroethene	95		13.083				
	58 1,2-Dichloropropane	63		13.645				
	59 Methyl methacrylate	69		13.859				
	60 1,4-Dioxane	88		13.891				
	61 Dibromomethane	174		13.907				
	62 Dichlorobromomethane	83		14.217				
	64 cis-1,3-Dichloropropene	75		15.202				
	65 4-Methyl-2-pentanone (MIBK)	43		15.506				
	66 Toluene	92	15.833	15.827	0.006	15	1015	0.005194
	70 trans-1,3-Dichloropropene	75		16.411				
	71 1,1,2-Trichloroethane	83		16.785				
	72 Tetrachloroethene	166		16.940				
	73 2-Hexanone	43		17.261				
	74 Chlorodibromomethane	129		17.561				
	75 Ethylene Dibromide	107		17.834				
*	76 Chlorobenzene-d5	117	18.759	18.759	0.0	81	2667254	10.0
	77 Chlorobenzene	112		18.823				
	78 Ethylbenzene	91	18.989	18.989	0.0	1	226	0.000557
	80 m-Xylene & p-Xylene	106	19.240	19.246	-0.006	28	284	0.001712
	83 o-Xylene	106	20.086	20.075	0.011	1	211	0.001218
S	82 Xylenes, Total	106				0		0.002930
	84 Styrene	104		20.123				
	85 Bromoform	173		20.508				
	86 Isopropylbenzene	105		20.744				
$	87 4-Bromofluorobenzene	95	21.086	21.092	-0.006	97	1140572	NC
	88 1,1,2,2-Tetrachloroethane	83		21.343				
	90 N-Propylbenzene	91		21.450				
	92 2-Chlorotoluene	91		21.632				
	91 4-Ethyltoluene	105		21.637				
	94 1,3,5-Trimethylbenzene	105		21.739				
	96 tert-Butylbenzene	119		22.220				
	97 1,2,4-Trimethylbenzene	105		22.311				
	98 sec-Butylbenzene	105		22.547				
	99 4-Isopropyltoluene	119		22.745				
	100 1,3-Dichlorobenzene	146		22.761				
	101 1,4-Dichlorobenzene	146		22.894				
	102 Benzyl chloride	91		23.087				
	103 n-Butylbenzene	91		23.322				
	105 1,2-Dichlorobenzene	146		23.429				
	107 1,2,4-Trichlorobenzene	180		25.992				
	108 Hexachlorobutadiene	225		26.206				
	109 Naphthalene	128		26.479				

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

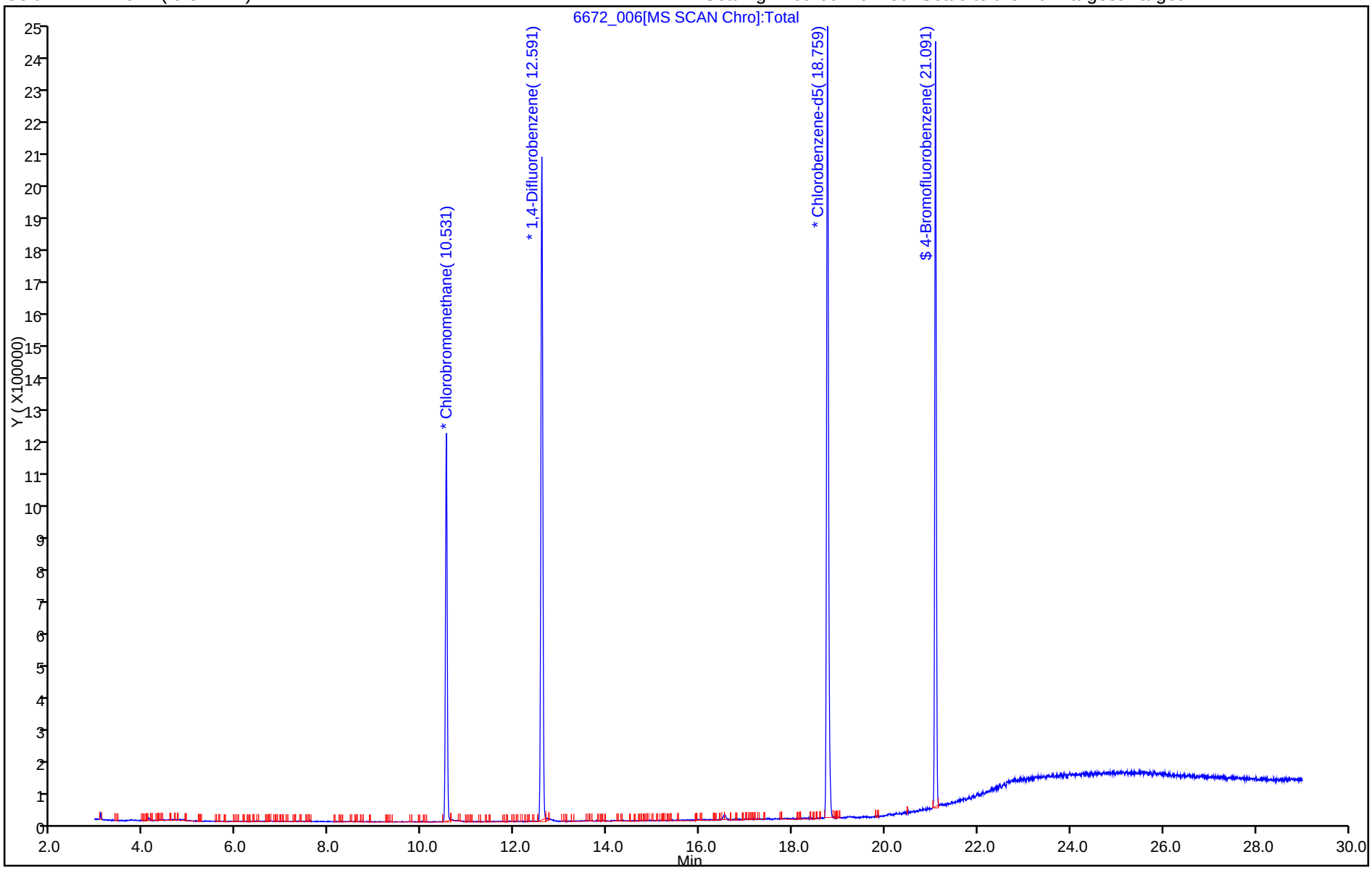
Report Date: 25-Mar-2014 08:00:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140324-6672.b\6672_006.D

Injection Date:	24-Mar-2014 15:31:30	Instrument ID:	CHG.i	Operator ID:	WRD
Lims ID:	200-21507-A-4	Lab Sample ID:	200-21507-4	Worklist Smp#:	6
Client ID:	3508				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	5
Method:	TO15_LLNJ_TO3_G	Limit Group:	AI_TO15_ICAL		

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



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

Lab Name: TestAmerica Burlington Job No.: 200-21510-1

SDG No.:

Client Sample ID: 3437 Lab Sample ID: 200-21510-4

Matrix: Air Lab File ID: 6672_005.D

Analysis Method: TO-15 Date Collected: 03/22/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/24/2014 14:34

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69811 Units: ppb v/v

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21510-1

SDG No.:

Client Sample ID: 3437 Lab Sample ID: 200-21510-4

Matrix: Air Lab File ID: 6672_005.D

Analysis Method: TO-15 Date Collected: 03/22/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/24/2014 14:34

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69811 Units: ppb v/v

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21510-1

SDG No.:

Client Sample ID: 3437 Lab Sample ID: 200-21510-4

Matrix: Air Lab File ID: 6672_005.D

Analysis Method: TO-15 Date Collected: 03/22/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/24/2014 14:34

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 69811 Units: ppb v/v

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

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140324-6672.b\6672_005.D
Lims ID: 200-21510-A-4 Lab Sample ID: 200-21510-4
Client ID: 3437
Sample Type: Client
Inject. Date: 24-Mar-2014 14:34:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0006672-005
Misc. Info.: 200-21510-a-4
Operator ID: WRD Instrument ID: CHG.i

Method: \\BTV-LIMS1\ChromData\CHG.i\20140324-6672.b\TO15_LLNJ_TO3_G.m
Limit Group: AI_TO15_ICAL
Last Update: 25-Mar-2014 04:46:48 Calib Date: 20-Feb-2014 21:54:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHG.i\20140220-6246.b\6246_013.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: lyonsb Date: 25-Mar-2014 08:00:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
1 Propene	41		3.058					
2 Dichlorodifluoromethane	85		3.133					
6 Chlorodifluoromethane	51		3.181					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.405					
8 Chloromethane	50		3.539					
9 Butane	43		3.753					
10 Vinyl chloride	62		3.791					
11 Butadiene	54		3.876					
12 Bromomethane	94		4.572					
14 Chloroethane	64		4.818					
16 Vinyl bromide	106		5.219					
17 Trichlorofluoromethane	101		5.342					
19 Ethanol	45		5.909					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.460					
24 1,1-Dichloroethene	96		6.481					
25 Acetone	43		6.701					
26 Carbon disulfide	76		6.867					
27 Isopropyl alcohol	45		7.027					
29 3-Chloro-1-propene	41		7.284					
31 Methylene Chloride	49		7.573					
32 2-Methyl-2-propanol	59		7.824					
33 Methyl tert-butyl ether	73		8.022					
34 trans-1,2-Dichloroethene	61		8.038					
36 Hexane	57	8.461	8.477	-0.016	54	1388	0.0304	
37 1,1-Dichloroethane	63		8.921					
38 Vinyl acetate	43		9.023					
39 cis-1,2-Dichloroethene	96		10.060					
40 2-Butanone (MEK)	72		10.103					
42 Ethyl acetate	88		10.183					
S 41 1,2-Dichloroethene, Total	61		10.200					
* 43 Chlorobromomethane	128	10.526	10.531	-0.005	70	544521	10.0	

Sig		RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags
	44 Tetrahydrofuran	42		10.553					
	45 Chloroform	83		10.676					
	46 Cyclohexane	84		10.970					
	47 1,1,1-Trichloroethane	97		10.981					
	48 Carbon tetrachloride	117		11.248					
	50 Benzene	78	11.708	11.714	-0.006	1	455	0.002282	
	51 Isooctane	57		11.740					
	52 1,2-Dichloroethane	62		11.879					
	53 n-Heptane	43	12.147	12.152	-0.005	9	1145	0.0129	
*	54 1,4-Difluorobenzene	114	12.591	12.591	0.0	92	2988704	10.0	
	56 Trichloroethene	95		13.083					
	58 1,2-Dichloropropane	63		13.645					
	59 Methyl methacrylate	69		13.859					
	60 1,4-Dioxane	88		13.891					
	61 Dibromomethane	174		13.907					
	62 Dichlorobromomethane	83		14.217					
	64 cis-1,3-Dichloropropene	75		15.202					
	65 4-Methyl-2-pentanone (MIBK)	43		15.506					
	66 Toluene	92	15.822	15.827	-0.005	15	621	0.003482	
	70 trans-1,3-Dichloropropene	75		16.411					
	71 1,1,2-Trichloroethane	83		16.785					
	72 Tetrachloroethene	166		16.940					
	73 2-Hexanone	43		17.261					
	74 Chlorodibromomethane	129		17.561					
	75 Ethylene Dibromide	107		17.834					
*	76 Chlorobenzene-d5	117	18.759	18.759	0.0	81	2434328	10.0	
	77 Chlorobenzene	112		18.823					
	78 Ethylbenzene	91	18.984	18.989	-0.005	1	1467	0.003960	
	80 m-Xylene & p-Xylene	106	19.240	19.246	-0.006	1	964	0.006365	
	83 o-Xylene	106	20.075	20.075	0.0	1	350	0.002214	
S	82 Xylenes, Total	106				0		0.008579	
	84 Styrene	104		20.123					
	85 Bromoform	173		20.508					
	86 Isopropylbenzene	105		20.744					
$	87 4-Bromofluorobenzene	95	21.091	21.092	-0.001	98	889286	NC	
	88 1,1,2,2-Tetrachloroethane	83		21.343					
	90 N-Propylbenzene	91		21.450					
	92 2-Chlorotoluene	91		21.632					
	91 4-Ethyltoluene	105		21.637					
	94 1,3,5-Trimethylbenzene	105		21.739					
	96 tert-Butylbenzene	119		22.220					
	97 1,2,4-Trimethylbenzene	105		22.311					
	98 sec-Butylbenzene	105		22.547					
	99 4-Isopropyltoluene	119		22.745					
	100 1,3-Dichlorobenzene	146		22.761					
	101 1,4-Dichlorobenzene	146		22.894					
	102 Benzyl chloride	91		23.087					
	103 n-Butylbenzene	91		23.322					
	105 1,2-Dichlorobenzene	146		23.429					
	107 1,2,4-Trichlorobenzene	180		25.992					
	108 Hexachlorobutadiene	225		26.206					
	109 Naphthalene	128		26.479					

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

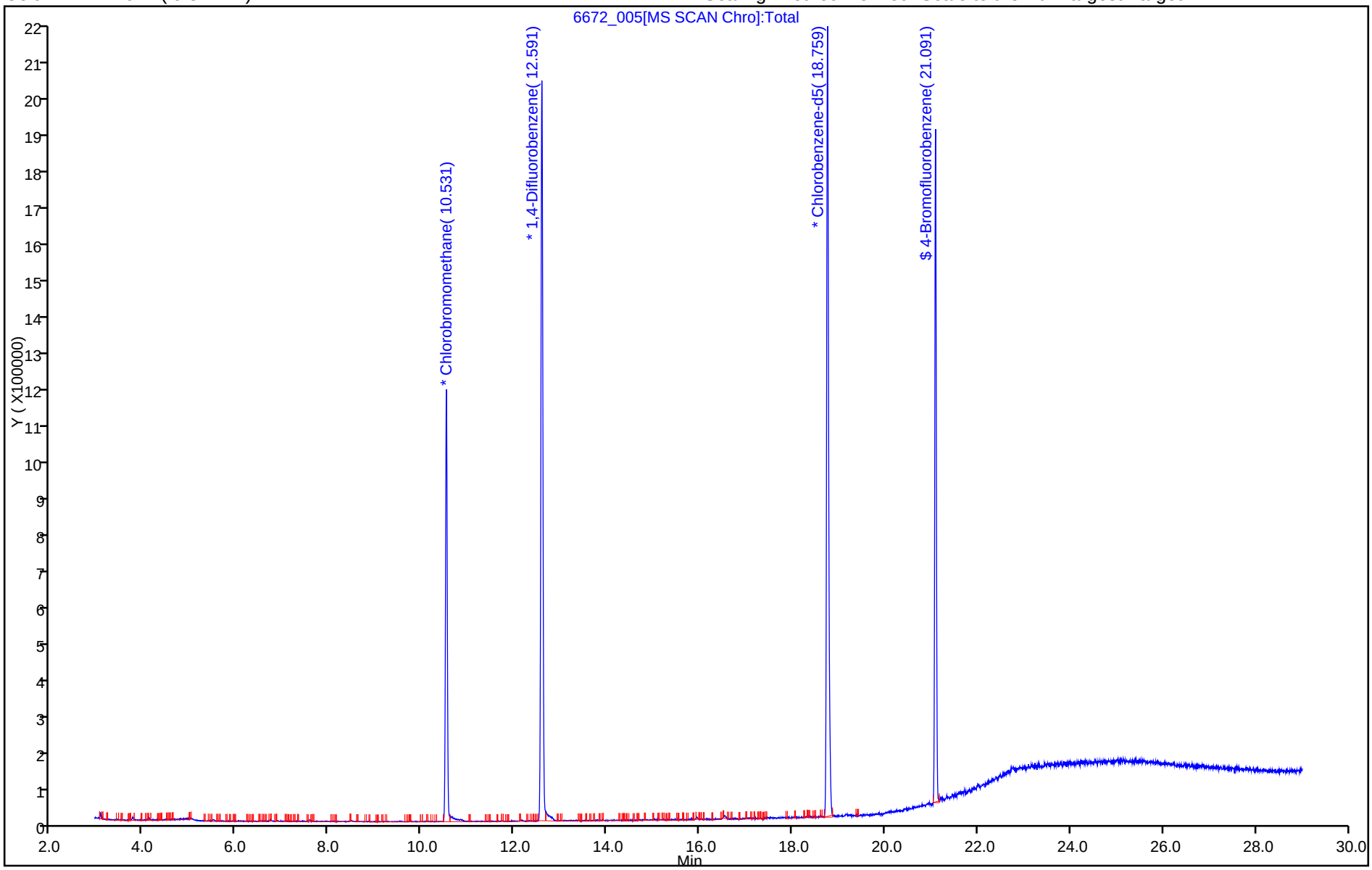
Report Date: 25-Mar-2014 08:00:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140324-6672.b\6672_005.D

Injection Date:	24-Mar-2014 14:34:30	Instrument ID:	CHG.i	Operator ID:	WRD
Lims ID:	200-21510-A-4	Lab Sample ID:	200-21510-4	Worklist Smp#:	5
Client ID:	3437				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	4
Method:	TO15_LLNJ_TO3_G	Limit Group:	AI_TO15_ICAL		

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



PARADIGM

Analytical Report For

Haley & Aldrich

For Lab Project ID

143198

Referencing

36795-027/029

Prepared

Friday, August 01, 2014

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 143198

Client: **Haley & Aldrich**

Project Reference: 36795-027/029

Sample Identifier:	B7W-SCP-3EFF-20140725-1000		
Lab Sample ID:	143198-01	**Date Sampled:**	7/25/2014
Matrix:	Air	**Date Received:**	7/25/2014

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed	
cis-1,2-Dichloroethene	< 2.00	mg/m3		7/26/2014	06:26
Tetrachloroethene	**13.9**	mg/m3		7/26/2014	06:26
Trichloroethene	**5.29**	mg/m3		7/26/2014	06:26
Vinyl chloride	< 2.00	mg/m3		7/26/2014	06:26

Method Reference(s): EPA 8260C Modified
EPA 5030 Modified

Data File: x15469.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 143198

Client: **Haley & Aldrich**

Project Reference: 36795-027/029

Sample Identifier:	B8-SCP-3EFF-20140725-1040		
Lab Sample ID:	143198-02	**Date Sampled:**	7/25/2014
Matrix:	Air	**Date Received:**	7/25/2014

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed	
cis-1,2-Dichloroethene	**13.8**	mg/m3		7/26/2014	06:50
Tetrachloroethene	< 2.00	mg/m3		7/26/2014	06:50
Trichloroethene	**358**	mg/m3	E	7/26/2014	06:50
Vinyl chloride	< 2.00	mg/m3		7/26/2014	06:50

Method Reference(s): EPA 8260C Modified
EPA 5030 Modified

Data File: x15470.D

Report Prepared Friday, August 01, 2014

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 143198

Client: **Haley & Aldrich**

Project Reference: 36795-027/029

Sample Identifier:	B8-SCP-6EFF-20140725-1100		
Lab Sample ID:	143198-03	**Date Sampled:**	7/25/2014
Matrix:	Air	**Date Received:**	7/25/2014

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed	
cis-1,2-Dichloroethene	**3.57**	mg/m3		7/26/2014	07:14
Tetrachloroethene	< 2.00	mg/m3		7/26/2014	07:14
Trichloroethene	**12.6**	mg/m3		7/26/2014	07:14
Vinyl chloride	< 2.00	mg/m3		7/26/2014	07:14

Method Reference(s): EPA 8260C Modified
EPA 5030 Modified

Data File: x15471.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, August 01, 2014

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

143198

REPORT TO:			INVOICE TO:			LAB PROJECT ID
CLIENT: Hurley Emerich of NY			CLIENT: STATE			36795-027/029
ADDRESS: 200 Town Centre Dr			ADDRESS:			Quotation #:
CITY: Rochester	STATE: NY	ZIP: 14623	CITY:	STATE:	ZIP:	
PHONE: 585 321 4245			PHONE:			Email:
ATTN: Denis Conley			ATTN:			

PROJECT REFERENCE

Matrix Codes:
AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOC's (8260B)	CAT CL (Report on Min. Quantity)	USP PACE (Report on Min. Quantity)	PCB's + TICS	STARS TICS	KEY TICS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/25/14		—	X	B7W-SCP-3EFF-20140725-1000	AIR	1	X						CHLORINATED VOCs - 48 HR TURNAROUND TIME	01
2	7/25/14		—	X	B8-SCP-3EFF-20140725-1040	AIR	1	X						CHLORINATED VOCs - 48 HR TURNAROUND TIME	02
3	7/25/14		—	X	B8-SCP-6EFF-20140725-1100	AIR	1	X						CHLORINATED VOCs - 48 HR TURNAROUND TIME	03
4															
5														(ON TEDLAR BAGS)	
6														RESULTS TO BE RETURNED TO D. CONLEY @ HEA	
7															
8															
9															
10															

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	per client on 7/25/14 Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day	X	Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	

Sampled By		7/25/14 10:00-11:00 Date/Time	Total Cost:
Relinquished By		7/25/14 15:40 Date/Time	
Received By		7/25/14 1540 Date/Time	P.I.F.
Received @ Lab By		7/25/14 1612 Date/Time	

Chain of Custody Supplement

Client: H + A **Completed by:** SSL

Lab Project ID: 143198 **Date:** 7/25/14

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments	AV		
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature			X
Comments			
Sufficient Sample Quantity	X		
Comments			

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APPENDIX C

Air Guide – 1 Analysis

Basic Cavity Impact Analysis - Point Source

Description: Air Guide -1 Analysis
Sub-Slab Depressurization System - GMCH Lockport BCP Site - July 2014
Bldg 7 & 8 combined

h_b - building height (ft): 50

Contaminant	No. of Suction Pits (pilot test)	Q (lb/hr)	Q_a (lb/yr)	C_{st} (µg/m^3)	SGC (µg/m^3)	C_c (µg/m^3)	AGC (µg/m^3)	Potential No. of Suction Pits (full-scale)	Q (lb/hr)	Q_a (lb/yr)	C_{st} (µg/m^3)	SGC (µg/m^3)	C_c (µg/m^3)	AGC (µg/m^3)
Bldg 7W SCP-3	1							10						
trichloroethene		0.0019	16.32	0.674	14000	0.0112	0.5		0.0186	163.18	6.736	14000	0.11227	0.5
tetrachloroethene		0.0049	42.88	1.770	1000	0.02950	1.0		0.0489	428.78	17.699	1000	0.29500	1.0
Bldg 8 SCP-3	1							1						
cis, 1-2 dichloroethene		0.0024	20.83	0.86	NGV	0.0143	63.0		0.0024	20.83	0.860	NGV	0.01433	63.0
trichloroethene		0.0617	540.42	22.31	14000	0.3718	0.5		0.0617	540.42	22.308	14000	0.37181	0.5
Bldg 8 SCP-6	1							6						
cis, 1-2 dichloroethene		0.0013	11.13	0.459	NGV	0.00766	63.0		0.0076	66.78	2.757	NGV	0.04594	63.0
trichloroethene		0.0045	39.28	1.62	14000	0.02703	0.5		0.0269	235.69	9.729	14000	0.16215	0.5
tetrachloroethene		0	0.00	0.00	1000	0.000	1.0		0.0000	0.00	0.000	1000	0.00000	1.0
Totals														
cis, 1-2 dichloroethene		0.0036	31.96	1.32	NGV	0.022	63.0		0.0100	87.61	0.000	NGV	0.060	63.0
trichloroethene		0.0680	596.02	24.60	14000	0.4101	0.5		0.1072	939.29	0.000	14000	0.6462	0.5
tetrachloroethene		0.0049	42.88	1.77	1000	0.030	1.0		0.0489	428.78	0.000	1000	0.295	1.0
Cumulative Totals		**0.0766**	**670.86**						**0.1662**	**1455.68**				

Assumptions

Method used for shortest distance from the building to the property line and is less than 3 times the building height (h_b). Cavity impacts would then occur to offsite receptors.
If the physical stack height is greater than 1.5 building height (h_b), no annual or short term cavity impacts occur from this source.

Calculations

Short Term Cavity Impact (C_{st}): C_{st} (µg/m^3) = (904000*Q)/(h_b^2)
Annual Cavity Impact (C_c): C_c (µg/m^3) = (1.72*Q_a)/(h_b^2)

Q: Hourly Emissions (lbs/hr)
Q_a: Annual Emissions Rate (lbs/yr)
h_b: Building Height (feet)
SGC: Short-Term Guidance Concentrations - Guidance Values
AGC: Annual Guidance Concentrations - Guidance Valves
ug/m3 micro-grams per cubic meter

Sub-Slab Depressurization System - GMCH Lockport BCP Site - July 2014

Effluent Samples Collected: 7/25/14 Analysis : TO-14

Suction Pit Location	Analyte	Vapor Phase Concentration (mg/m3) ***A***	Vapor Flow Rate (CFM) ***B***	HAPs Potential to Emit (lb/yr) ***C***	HAPs Potential to Emit (ton/yr) ***D***	Field PID Reading (PPM)
Bldg 7W SCP-3	Tetrachloroethene*	13.9	94	42.9	0.0214	21.9
	Trichloroethene*	5.29		16.3	0.0082	
	Total HAPs	19.19		59.2	0.0296	
Bldg 8 SCP-3	cis-1,2-Dichloroethene	13.8	46	20.8	0.0104	318.2
	Trichloroethene*	358		540.4	0.2702	
	Total HAPs	371.80		561.3	0.2806	
Bldg 8 SCP-6	cis-1,2-Dichloroethene	3.57	95	11.1	0.0056	13.0
	Trichloroethene*	12.6		39.3	0.0196	
	Total HAPs	16.17		50.4	0.0252	

* - hazardous air pollutant (HAP)

Conversion equation: $A\frac{mg}{m^3} \times \frac{1\ lb}{453{,}592.37\ mg} \times B\frac{ft^3}{min} \times \frac{m^3}{35.31\ ft^3} \times \frac{525{,}600\ min}{1\ yr} = C\frac{lb}{yr}$

Location	Suction Pit Number	Flow (SCFM)	PID (PPMV)	PTE Lb/yr	PTE tons/yr
Bldg 7W	1	92	4.0	12.1	0.0060
	2	106	9.5	33.0	0.0165
	4	113	2.7	10.0	0.0050
	5	84	3.1	8.5	0.0043
	6	84	2.1	5.8	0.0029
	7	86	8.6	24.3	0.0121
Bldg 7E	1	117	5.0	19.2	0.0096
Bldg 7A	1	84	2.6	7.2	0.0036
	2	71	0.5	1.2	0.0006
Bldg 8	1	51	1.5	2.5	0.0013
	2	82	3.7	10.0	0.0050
	4	51	1.7	2.8	0.0014
	5	51	1.3	2.2	0.0011
	7	55	0.7	1.3	0.0006
				Total PTE tons/yr	**0.0700**

PREVIOUS PROJECTIONS (From pilot test numbers)

Projected Maximum PTE

Location	Projected Maximum Number of Suction Pits	Pilot Test HAPs PTE (ton/yr)	Estimated HAPs PTE (ton/yr)
Bldg 8	9	0.0022	0.020
Bldg 7	19	0.0073	0.139
		Total HAPs	0.159

HAPs Potential to Emit(ton/yr)D Updated projection	
Bldg 7W SCP-3	0.0296
Bldg 8 SCP-3	0.2806
Bldg 8 SCP-6	0.0252
Remaining 14 Units	0.0700
TOTAL ESTIMATED PTE	**0.4054**

(Using flow rates and PID readings estimated to equal mg/m3)

APPENDIX D

Data Usability Summary Reports

CONESTOGA-ROVERS & ASSOCIATES

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO:	Denis Conley, Chris Boron	REF. NO.:	58507-256021
FROM:	Kathy Willy/bjw/91	DATE:	May 5, 2014
		REVISION:	May 8, 2014
RE:	**Analytical Results and Reduced Validation Indoor Air Assessment Buildings 7,7A and 8 General Motors Corporation Lockport, New York March 2014**		

1.0 Introduction

The following document details a reduced validation of analytical results for air samples collected in support of the Indoor Air Assessment Buildings 7,7A and 8 at the GM Lockport Site during March 2014. Samples were submitted to TestAmerica Laboratories, Inc., located in Amherst, New York. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard Conestoga--Rovers & Associates (CRA) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes, and laboratory control samples (LCS).

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999

Item i) will subsequently be referred to as the "Guidelines" in this Memorandum.

2.0 Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly delivered and stored by the laboratory.

3.0 Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4.0 Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

5.0 Field QA/QC Samples

Field QA/QC was not collected for this sampling event.

6.0 Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. No positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL were reported. Non-detect results were presented as non-detect at the PQL in Table 2.

7.0 Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

			Holding Time	
Parameter	***Method***	***Matrix***	***Collection to Extraction (Days)***	***Collection or Extraction to Analysis (Days)***
VOC	TO-15 [1]	Air	-	30

Notes

[1] - "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999

VOC - Volatile Organic Compound

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

Sample Location:	*7A-1*	*7A-1*	*7E-1*	*7E-1*	*7W-1*	*7W-1*	*7W-2*
Sample ID:	*7AIA-1-032814*	*7AIA-1-032814*	*7EIA-1-032814*	*7EIA-1-032814*	*7WIA-1-032814*	*7WIA-1-032814*	*7WIA-2-032814*
Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*
Parameters							
Volatile Organic Compounds							
1,1,1-Trichloroethane	0.20 U	1.1 U	0.40 U	2.2 U	0.20 U	1.1 U	0.20 U
1,1,2,2-Tetrachloroethane	0.20 U	1.4 U	0.40 U	2.7 U	0.20 U	1.4 U	0.20 U
1,1,2-Trichloroethane	0.20 U	1.1 U	0.40 U	2.2 U	0.20 U	1.1 U	0.20 U
1,1-Dichloroethane	0.20 U	0.81 U	0.40 U	1.6 U	0.20 U	0.81 U	0.20 U
1,1-Dichloroethene	0.20 U	0.79 U	0.40 U	1.6 U	0.20 U	0.79 U	0.20 U
1,2,4-Trichlorobenzene	0.50 U	3.7 U	1.0 U	7.4 U	0.50 U	3.7 U	0.50 U
1,2,4-Trimethylbenzene	0.20 U	0.98 U	1.4	7.0	0.24	1.2	0.20 U
1,2-Dibromoethane (Ethylene dibromide)	0.20 U	1.5 U	0.40 U	3.1 U	0.20 U	1.5 U	0.20 U
1,2-Dichlorobenzene	0.20 U	1.2 U	0.40 U	2.4 U	0.20 U	1.2 U	0.20 U
1,2-Dichloroethane	0.20 U	0.81 U	0.40 U	1.6 U	0.20 U	0.81 U	0.20 U
1,2-Dichloroethene (total)	0.20 U	0.79 U	1.5	5.9	0.20 U	0.79 U	0.20 U
1,2-Dichloropropane	0.20 U	0.92 U	0.40 U	1.8 U	0.20 U	0.92 U	0.20 U
1,2-Dichlorotetrafluoroethane (CFC 114)	0.20 U	1.4 U	0.40 U	2.8 U	0.20 U	1.4 U	0.20 U
1,3,5-Trimethylbenzene	0.20 U	0.98 U	0.49	2.4	0.20 U	0.98 U	0.20 U
1,3-Butadiene	0.20 U	0.44 U	0.40 U	0.88 U	0.65	1.4	0.82
1,3-Dichlorobenzene	0.20 U	1.2 U	0.40 U	2.4 U	0.20 U	1.2 U	0.20 U
1,4-Dichlorobenzene	0.20 U	1.2 U	0.40 U	2.4 U	0.20 U	1.2 U	0.20 U
1,4-Dioxane	5.0 U	18 U	10 U	36 U	5.0	18	5.0 U
2,2,4-Trimethylpentane	0.20 U	0.93 U	0.40 U	1.9 U	0.20 U	0.93 U	0.20 U
2-Butanone (Methyl ethyl ketone) (MEK)	0.50 U	1.5 U	2.1	6.1	1.2	3.6	0.50 U
2-Chlorotoluene	0.20 U	1.0 U	0.40 U	2.1 U	0.20 U	1.0 U	0.20 U
2-Hexanone	0.50 U	2.0 U	1.0 U	4.1 U	0.50 U	2.0 U	0.50 U
2-Phenylbutane (sec-Butylbenzene)	0.20 U	1.1 U	0.40 U	2.2 U	0.20 U	1.1 U	0.20 U
4-Ethyl toluene	0.20 U	0.98 U	0.41	2.0	0.20 U	0.98 U	0.20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	0.50 U	2.0 U	1.0 U	4.1 U	0.50 U	2.0 U	0.50 U
Acetone	5.0 U	12 U	10 U	24 U	12	28	7.2

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

	Sample Location:	*7A-1*	*7A-1*	*7E-1*	*7E-1*	*7W-1*	*7W-1*	*7W-2*
	Sample ID:	*7AIA-1-032814*	*7AIA-1-032814*	*7EIA-1-032814*	*7EIA-1-032814*	*7WIA-1-032814*	*7WIA-1-032814*	*7WIA-2-032814*
	Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
	Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*
Parameters								
Volatile Organic Compounds (Continued)								
Allyl chloride		0.50 U	1.6 U	1.0 U	3.1 U	0.50 U	1.6 U	0.50 U
Benzene		0.20 U	0.64 U	0.74	2.4	0.41	1.3	0.31
Benzyl chloride		0.20 U	1.0 U	0.40 U	2.1 U	0.20 U	1.0 U	0.20 U
Bromodichloromethane		0.20 U	1.3 U	0.40 U	2.7 U	0.20 U	1.3 U	0.20 U
Bromoform		0.20 U	2.1 U	0.40 U	4.1 U	0.20 U	2.1 U	0.20 U
Bromomethane (Methyl bromide)		0.20 U	0.78 U	0.40 U	1.6 U	0.20 U	0.78 U	0.20 U
Butane		0.61	1.5	1.8	4.2	1.2	2.9	1.2
Carbon disulfide		0.50 U	1.6 U	1.0 U	3.1 U	0.50 U	1.6 U	0.50 U
Carbon tetrachloride		0.20 U	1.3 U	0.40 U	2.5 U	0.20 U	1.3 U	0.20 U
Chlorobenzene		0.20 U	0.92 U	0.40 U	1.8 U	0.20 U	0.92 U	0.20 U
Chlorodifluoromethane		1.6	5.7	1.0 U	3.5 U	0.50 U	1.8 U	0.50 U
Chloroethane		0.50 U	1.3 U	1.0 U	2.6 U	0.50 U	1.3 U	0.50 U
Chloroform (Trichloromethane)		0.20 U	0.98 U	0.40 U	2.0 U	0.20 U	0.98 U	0.20 U
Chloromethane (Methyl chloride)		0.50 U	1.0 U	1.0 U	2.1 U	0.65	1.3	0.50 U
cis-1,2-Dichloroethene		0.20 U	0.79 U	1.5	5.8	0.20 U	0.79 U	0.20 U
cis-1,3-Dichloropropene		0.20 U	0.91 U	0.40 U	1.8 U	0.20 U	0.91 U	0.20 U
Cyclohexane		0.20 U	0.69 U	0.40 U	1.4 U	0.20 U	0.69 U	0.20 U
Cymene (p-Isopropyltoluene)		0.20 U	1.1 U	0.40 U	2.2 U	1.0	5.6	0.20 U
Dibromochloromethane		0.20 U	1.7 U	0.40 U	3.4 U	0.20 U	1.7 U	0.20 U
Dichlorodifluoromethane (CFC-12)		0.50 U	2.5 U	1.0 U	4.9 U	0.50 U	2.5 U	0.50 U
Ethylbenzene		0.20 U	0.87 U	0.71	3.1	0.39	1.7	0.20 U
Hexachlorobutadiene		0.20 U	2.1 U	0.40 U	4.3 U	0.20 U	2.1 U	0.20 U
Hexane		0.20 U	0.70 U	0.58	2.0	0.89	3.1	0.69
Isopropyl alcohol		5.0 U	12 U	50	120	5.0 U	12 U	5.0 U
Isopropyl benzene		0.20 U	0.98 U	0.40 U	2.0 U	0.20 U	0.98 U	0.20 U
m&p-Xylenes		0.50 U	2.2 U	2.8	12	1.1	4.7	0.50 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

Sample Location:	*7A-1*	*7A-1*	*7E-1*	*7E-1*	*7W-1*	*7W-1*	*7W-2*
Sample ID:	*7AIA-1-032814*	*7AIA-1-032814*	*7EIA-1-032814*	*7EIA-1-032814*	*7WIA-1-032814*	*7WIA-1-032814*	*7WIA-2-032814*
Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*
Parameters							
Volatile Organic Compounds (Continued)							
Methyl methacrylate	0.50 U	2.0 U	1.9	7.6	0.50 U	2.0 U	0.50 U
Methyl tert butyl ether (MTBE)	0.20 U	0.72 U	0.40 U	1.4 U	0.20 U	0.72 U	0.20 U
Methylene chloride	0.50 U	1.7 U	1.0 U	3.5 U	0.50 U	1.7 U	0.50 U
Naphthalene	0.50 U	2.6 U	1.0 U	5.2 U	0.50 U	2.6 U	0.50 U
N-Butylbenzene	0.20 U	1.1 U	0.40 U	2.2 U	0.20 U	1.1 U	0.20 U
N-Heptane	0.20 U	0.82 U	0.40 U	1.6 U	0.20 U	0.82 U	0.20 U
N-Propylbenzene	0.20 U	0.98 U	0.40 U	2.0 U	0.20 U	0.98 U	0.20 U
o-Xylene	0.20 U	0.87 U	1.1	4.7	0.41	1.8	0.20 U
Styrene	0.20 U	0.85 U	0.40 U	1.7 U	0.20 U	0.85 U	0.20 U
tert-Butyl alcohol	5.0 U	15 U	10 U	30 U	5.0 U	15 U	5.0 U
tert-Butylbenzene	0.20 U	1.1 U	0.40 U	2.2 U	0.20 U	1.1 U	0.20 U
Tetrachloroethene	0.20 U	1.4 U	0.48	3.3	0.20	1.3	0.30
Tetrahydrofuran	5.0 U	15 U	10 U	29 U	5.0 U	15 U	5.0 U
Toluene	0.20 U	0.75 U	5.5	21	1.5	5.8	1.1
trans-1,2-Dichloroethene	0.20 U	0.79 U	0.40 U	1.6 U	0.20 U	0.79 U	0.20 U
trans-1,3-Dichloropropene	0.20 U	0.91 U	0.40 U	1.8 U	0.20 U	0.91 U	0.20 U
Trichloroethene	0.20 U	1.1 U	0.40 U	2.1 U	0.20 U	1.1 U	0.24
Trichlorofluoromethane (CFC-11)	0.20 U	1.1 U	1.3	7.2	0.68	3.8	0.99
Trifluorotrichloroethane (Freon 113)	0.20 U	1.5 U	0.40 U	3.1 U	0.20 U	1.5 U	0.20 U
Vinyl bromide (Bromoethene)	0.20 U	0.87 U	0.40 U	1.7 U	0.20 U	0.87 U	0.20 U
Vinyl chloride	0.20 U	0.51 U	0.40 U	1.0 U	0.20 U	0.51 U	0.20 U
Xylenes (total)	0.20 U	0.87 U	3.9	17	1.5	6.6	0.20 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

Sample Location:	*7A-1*	*7W-2*	*7W-3*	*7W-3*	*7W-4*	*7W-4*	*8-1*
Sample ID:	*7AIA-1-032814*	*7WIA-2-032814*	*7WIA-3-032814*	*7WIA-3-032814*	*7WIA-4-032814*	*7WIA-4-032814*	*8IA-1-032814*
Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*
Parameters							
Volatile Organic Compounds							
1,1,1-Trichloroethane	0.20 U	1.1 U	0.20 U	1.1 U	0.60 U	3.3 U	0.20 U
1,1,2,2-Tetrachloroethane	0.20 U	1.4 U	0.20 U	1.4 U	0.60 U	4.1 U	0.20 U
1,1,2-Trichloroethane	0.20 U	1.1 U	0.20 U	1.1 U	0.60 U	3.3 U	0.20 U
1,1-Dichloroethane	0.20 U	0.81 U	0.20 U	0.81 U	0.60 U	2.4 U	0.20 U
1,1-Dichloroethene	0.20 U	0.79 U	0.20 U	0.79 U	0.60 U	2.4 U	0.20 U
1,2,4-Trichlorobenzene	0.50 U	3.7 U	0.50 U	3.7 U	1.5 U	11 U	0.50 U
1,2,4-Trimethylbenzene	0.20 U	0.98 U	0.20 U	0.98 U	0.60 U	2.9 U	0.20 U
1,2-Dibromoethane (Ethylene dibromide)	0.20 U	1.5 U	0.20 U	1.5 U	0.60 U	4.6 U	0.20 U
1,2-Dichlorobenzene	0.20 U	1.2 U	0.20 U	1.2 U	0.60 U	3.6 U	0.20 U
1,2-Dichloroethane	0.20 U	0.81 U	0.20 U	0.81 U	0.60 U	2.4 U	0.20 U
1,2-Dichloroethene (total)	0.20 U	0.79 U	0.20 U	0.79 U	0.60 U	2.4 U	0.34
1,2-Dichloropropane	0.20 U	0.92 U	0.20 U	0.92 U	0.60 U	2.8 U	0.20 U
1,2-Dichlorotetrafluoroethane (CFC 114)	0.20 U	1.4 U	0.20 U	1.4 U	0.60 U	4.2 U	0.20 U
1,3,5-Trimethylbenzene	0.20 U	0.98 U	0.20 U	0.98 U	0.60 U	2.9 U	0.20 U
1,3-Butadiene	0.20 U	1.8	0.42	0.93	0.60 U	1.3 U	0.20 U
1,3-Dichlorobenzene	0.20 U	1.2 U	0.20 U	1.2 U	0.60 U	3.6 U	0.20 U
1,4-Dichlorobenzene	0.20 U	1.2 U	0.20 U	1.2 U	0.60 U	3.6 U	0.20 U
1,4-Dioxane	5.0 U	18 U	5.0 U	18 U	15 U	54 U	5.0 U
2,2,4-Trimethylpentane	0.20 U	0.93 U	0.20 U	0.93 U	0.60 U	2.8 U	0.20 U
2-Butanone (Methyl ethyl ketone) (MEK)	0.50 U	1.5 U	0.89	2.6	1.5 U	4.4 U	0.94
2-Chlorotoluene	0.20 U	1.0 U	0.20 U	1.0 U	0.60 U	3.1 U	0.20 U
2-Hexanone	0.50 U	2.0 U	0.50 U	2.0 U	1.5 U	6.1 U	0.50 U
2-Phenylbutane (sec-Butylbenzene)	0.20 U	1.1 U	0.20 U	1.1 U	0.60 U	3.3 U	0.20 U
4-Ethyl toluene	0.20 U	0.98 U	0.20 U	0.98 U	0.60 U	2.9 U	0.20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	0.50 U	2.0 U	0.50 U	2.0 U	1.5 U	6.1 U	0.50 U
Acetone	5.0 U	17	12	29	15 U	36 U	15

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

	Sample Location:	*7A-1*	*7W-2*	*7W-3*	*7W-3*	*7W-4*	*7W-4*	*8-1*
	Sample ID:	*7AIA-1-032814*	*7WIA-2-032814*	*7WIA-3-032814*	*7WIA-3-032814*	*7WIA-4-032814*	*7WIA-4-032814*	*8IA-1-032814*
	Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
	Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*
Parameters								
Volatile Organic Compounds (Continued)								
Allyl chloride		0.50 U	1.6 U	0.50 U	1.6 U	1.5 U	4.7 U	0.50 U
Benzene		0.20 U	1.0	0.29	0.92	0.60 U	1.9 U	0.20 U
Benzyl chloride		0.20 U	1.0 U	0.20 U	1.0 U	0.60 U	3.1 U	0.20 U
Bromodichloromethane		0.20 U	1.3 U	0.20 U	1.3 U	0.60 U	4.0 U	0.20 U
Bromoform		0.20 U	2.1 U	0.20 U	2.1 U	0.60 U	6.2 U	0.20 U
Bromomethane (Methyl bromide)		0.20 U	0.78 U	0.20 U	0.78 U	0.60 U	2.3 U	0.20 U
Butane		0.61	2.8	1.6	3.8	2.2	5.3	4.8
Carbon disulfide		0.50 U	1.6 U	0.50 U	1.6 U	1.5 U	4.7 U	0.50 U
Carbon tetrachloride		0.20 U	1.3 U	0.20 U	1.3 U	0.60 U	3.8 U	0.20 U
Chlorobenzene		0.20 U	0.92 U	0.20 U	0.92 U	0.60 U	2.8 U	0.20 U
Chlorodifluoromethane		1.6	1.8 U	0.50 U	1.8 U	1.5 U	5.3 U	2.2
Chloroethane		0.50 U	1.3 U	0.50 U	1.3 U	1.5 U	3.9 U	0.50 U
Chloroform (Trichloromethane)		0.20 U	0.98 U	0.20 U	0.98 U	0.60 U	2.9 U	0.20 U
Chloromethane (Methyl chloride)		0.50 U	1.0 U	0.50 U	1.0 U	1.5 U	3.1 U	0.50 U
cis-1,2-Dichloroethene		0.20 U	0.79 U	0.20 U	0.79 U	0.60 U	2.4 U	0.34
cis-1,3-Dichloropropene		0.20 U	0.91 U	0.20 U	0.91 U	0.60 U	2.7 U	0.20 U
Cyclohexane		0.20 U	0.69 U	0.39	1.4	0.60 U	2.1 U	0.20 U
Cymene (p-Isopropyltoluene)		0.20 U	1.1 U	0.20 U	1.1 U	0.60 U	3.3 U	0.20 U
Dibromochloromethane		0.20 U	1.7 U	0.20 U	1.7 U	0.60 U	5.1 U	0.20 U
Dichlorodifluoromethane (CFC-12)		0.50 U	2.5 U	0.72	3.5	1.5 U	7.4 U	0.50 U
Ethylbenzene		0.20 U	0.87 U	0.20 U	0.87 U	0.60 U	2.6 U	0.20 U
Hexachlorobutadiene		0.20 U	2.1 U	0.20 U	2.1 U	0.60 U	6.4 U	0.20 U
Hexane		0.20 U	2.4	1.9	6.5	1.1	3.9	0.20 U
Isopropyl alcohol		5.0 U	12 U	32	78	88	220	5.0 U
Isopropyl benzene		0.20 U	0.98 U	0.20 U	0.98 U	0.60 U	2.9 U	0.20 U
m&p-Xylenes		0.50 U	2.2 U	0.50 U	2.2 U	1.5 U	6.5 U	0.50 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

	Sample Location:	*7A-1*	*7W-2*	*7W-3*	*7W-3*	*7W-4*	*7W-4*	*8-1*
	Sample ID:	*7AIA-1-032814*	*7WIA-2-032814*	*7WIA-3-032814*	*7WIA-3-032814*	*7WIA-4-032814*	*7WIA-4-032814*	*8IA-1-032814*
	Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
	Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*
Parameters								
Volatile Organic Compounds (Continued)								
Methyl methacrylate		0.50 U	2.0 U	0.50 U	2.0 U	1.5 U	6.1 U	0.76
Methyl tert butyl ether (MTBE)		0.20 U	0.72 U	0.20 U	0.72 U	0.60 U	2.2 U	0.20 U
Methylene chloride		0.50 U	1.7 U	0.50 U	1.7 U	1.5 U	5.2 U	0.50 U
Naphthalene		0.50 U	2.6 U	0.50 U	2.6 U	1.5 U	7.8 U	0.50 U
N-Butylbenzene		0.20 U	1.1 U	0.20 U	1.1 U	0.60 U	3.3 U	0.20 U
N-Heptane		0.20 U	0.82 U	0.20 U	0.82 U	0.60 U	2.5 U	0.20 U
N-Propylbenzene		0.20 U	0.98 U	0.20 U	0.98 U	0.60 U	2.9 U	0.20 U
o-Xylene		0.20 U	0.87 U	0.20 U	0.87 U	0.60 U	2.6 U	0.20 U
Styrene		0.20 U	0.85 U	0.20 U	0.85 U	0.60 U	2.5 U	0.20 U
tert-Butyl alcohol		5.0 U	15 U	5.0 U	15 U	15 U	45 U	5.0 U
tert-Butylbenzene		0.20 U	1.1 U	0.20 U	1.1 U	0.60 U	3.3 U	0.20 U
Tetrachloroethene		0.20 U	2.0	0.47	3.2	0.60 U	4.1 U	0.20 U
Tetrahydrofuran		5.0 U	15 U	5.0 U	15 U	15 U	44 U	5.0 U
Toluene		0.20 U	4.0	4.8	18	2.0	7.4	1.2
trans-1,2-Dichloroethene		0.20 U	0.79 U	0.20 U	0.79 U	0.60 U	2.4 U	0.20 U
trans-1,3-Dichloropropene		0.20 U	0.91 U	0.20 U	0.91 U	0.60 U	2.7 U	0.20 U
Trichloroethene		0.20 U	1.3	0.20 U	1.1 U	0.60 U	3.2 U	0.65
Trichlorofluoromethane (CFC-11)		0.20 U	5.6	2.2	12	0.60 U	3.4 U	0.20 U
Trifluorotrichloroethane (Freon 113)		0.20 U	1.5 U	0.20 U	1.5 U	0.60 U	4.6 U	0.20 U
Vinyl bromide (Bromoethene)		0.20 U	0.87 U	0.20 U	0.87 U	0.60 U	2.6 U	0.20 U
Vinyl chloride		0.20 U	0.51 U	0.20 U	0.51 U	0.60 U	1.5 U	0.20 U
Xylenes (total)		0.20 U	0.87 U	0.20 U	0.87 U	0.60 U	2.6 U	0.20 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

Sample Location:	*7A-1*	*8-1*	*8-2*	*8-2*	*8-3*	*8-3*
Sample ID:	*7AIA-1-032814*	*8IA-1-032814*	*8IA-2-032814*	*8IA-2-032814*	*8IA-3-032814*	*8IA-3-032814*
Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*
Parameters						
Volatile Organic Compounds						
1,1,1-Trichloroethane	0.20 U	1.1 U	0.20 U	1.1 U	0.20 U	1.1 U
1,1,2,2-Tetrachloroethane	0.20 U	1.4 U	0.20 U	1.4 U	0.20 U	1.4 U
1,1,2-Trichloroethane	0.20 U	1.1 U	0.20 U	1.1 U	0.20 U	1.1 U
1,1-Dichloroethane	0.20 U	0.81 U	0.20 U	0.81 U	0.20 U	0.81 U
1,1-Dichloroethene	0.20 U	0.79 U	0.20 U	0.79 U	0.20 U	0.79 U
1,2,4-Trichlorobenzene	0.50 U	3.7 U	0.50 U	3.7 U	0.50 U	3.7 U
1,2,4-Trimethylbenzene	0.20 U	0.98 U	0.21	1.0	0.44	2.2
1,2-Dibromoethane (Ethylene dibromide)	0.20 U	1.5 U	0.20 U	1.5 U	0.20 U	1.5 U
1,2-Dichlorobenzene	0.20 U	1.2 U	0.20 U	1.2 U	0.20 U	1.2 U
1,2-Dichloroethane	0.20 U	0.81 U	0.20 U	0.81 U	0.20 U	0.81 U
1,2-Dichloroethene (total)	0.20 U	1.3	0.41	1.6	0.56	2.2
1,2-Dichloropropane	0.20 U	0.92 U	0.20 U	0.92 U	0.20 U	0.92 U
1,2-Dichlorotetrafluoroethane (CFC 114)	0.20 U	1.4 U	0.20 U	1.4 U	0.20 U	1.4 U
1,3,5-Trimethylbenzene	0.20 U	0.98 U	0.20 U	0.98 U	0.20 U	0.98 U
1,3-Butadiene	0.20 U	0.44 U	0.20 U	0.44 U	0.20 U	0.44 U
1,3-Dichlorobenzene	0.20 U	1.2 U	0.20 U	1.2 U	0.20 U	1.2 U
1,4-Dichlorobenzene	0.20 U	1.2 U	0.20 U	1.2 U	0.20 U	1.2 U
1,4-Dioxane	5.0 U	18 U	5.0 U	18 U	5.0 U	18 U
2,2,4-Trimethylpentane	0.20 U	0.93 U	0.20 U	0.93 U	0.20 U	0.93 U
2-Butanone (Methyl ethyl ketone) (MEK)	0.50 U	2.8	0.67	2.0	0.55	1.6
2-Chlorotoluene	0.20 U	1.0 U	0.20 U	1.0 U	0.20 U	1.0 U
2-Hexanone	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
2-Phenylbutane (sec-Butylbenzene)	0.20 U	1.1 U	0.20 U	1.1 U	0.20 U	1.1 U
4-Ethyl toluene	0.20 U	0.98 U	0.20 U	0.98 U	0.20 U	0.98 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	0.50 U	2.0 U	0.50 U	2.0 U	0.50 U	2.0 U
Acetone	5.0 U	34	11	25	7.8	19

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

Sample Location:	*7A-1*	*8-1*	*8-2*	*8-2*	*8-3*	*8-3*
Sample ID:	*7AIA-1-032814*	*8IA-1-032814*	*8IA-2-032814*	*8IA-2-032814*	*8IA-3-032814*	*8IA-3-032814*
Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*
Parameters						
Volatile Organic Compounds (Continued)						
Allyl chloride	0.50 U	1.6 U	0.50 U	1.6 U	0.50 U	1.6 U
Benzene	0.20 U	0.64 U	0.28	0.88	0.27	0.86
Benzyl chloride	0.20 U	1.0 U	0.20 U	1.0 U	0.20 U	1.0 U
Bromodichloromethane	0.20 U	1.3 U	0.20 U	1.3 U	0.20 U	1.3 U
Bromoform	0.20 U	2.1 U	0.20 U	2.1 U	0.20 U	2.1 U
Bromomethane (Methyl bromide)	0.20 U	0.78 U	0.20 U	0.78 U	0.20 U	0.78 U
Butane	0.61	11	3.5	8.3	3.0	7.1
Carbon disulfide	0.50 U	1.6 U	0.50 U	1.6 U	0.50 U	1.6 U
Carbon tetrachloride	0.20 U	1.3 U	0.20 U	1.3 U	0.20 U	1.3 U
Chlorobenzene	0.20 U	0.92 U	0.20 U	0.92 U	0.20 U	0.92 U
Chlorodifluoromethane	1.6	7.7	3.8	14	2.1	7.6
Chloroethane	0.50 U	1.3 U	0.50 U	1.3 U	0.50 U	1.3 U
Chloroform (Trichloromethane)	0.20 U	0.98 U	0.20 U	0.98 U	0.20 U	0.98 U
Chloromethane (Methyl chloride)	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U
cis-1,2-Dichloroethene	0.20 U	1.4	0.41	1.6	0.56	2.2
cis-1,3-Dichloropropene	0.20 U	0.91 U	0.20 U	0.91 U	0.20 U	0.91 U
Cyclohexane	0.20 U	0.69 U	0.20 U	0.69 U	0.20 U	0.69 U
Cymene (p-Isopropyltoluene)	0.20 U	1.1 U	0.20 U	1.1 U	0.20 U	1.1 U
Dibromochloromethane	0.20 U	1.7 U	0.20 U	1.7 U	0.20 U	1.7 U
Dichlorodifluoromethane (CFC-12)	0.50 U	2.5 U	0.50 U	2.5 U	0.50 U	2.5 U
Ethylbenzene	0.20 U	0.87 U	0.45	2.0	0.65	2.8
Hexachlorobutadiene	0.20 U	2.1 U	0.20 U	2.1 U	0.20 U	2.1 U
Hexane	0.20 U	0.70 U	0.21	0.75	0.23	0.79
Isopropyl alcohol	5.0 U	12 U	5.0 U	12 U	6.0	15
Isopropyl benzene	0.20 U	0.98 U	0.20 U	0.98 U	0.20 U	0.98 U
m&p-Xylenes	0.50 U	2.2 U	1.9	8.3	2.9	12

TABLE 2

ANALYTICAL RESULTS SUMMARY
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

Sample Location:	*7A-1*	*8-1*	*8-2*	*8-2*	*8-3*	*8-3*
Sample ID:	*7AIA-1-032814*	*8IA-1-032814*	*8IA-2-032814*	*8IA-2-032814*	*8IA-3-032814*	*8IA-3-032814*
Sample Date:	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*	*3/28/2014*
Result Unit:	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*	*ppbv*	*µg/m3*
Parameters						
Volatile Organic Compounds (Continued)						
Methyl methacrylate	0.50 U	3.1	0.50 U	2.0 U	0.50 U	2.0 U
Methyl tert butyl ether (MTBE)	0.20 U	0.72 U	0.20 U	0.72 U	0.20 U	0.72 U
Methylene chloride	0.50 U	1.7 U	0.50 U	1.7 U	0.50 U	1.7 U
Naphthalene	0.50 U	2.6 U	0.50 U	2.6 U	0.50 U	2.6 U
N-Butylbenzene	0.20 U	1.1 U	0.20 U	1.1 U	0.20 U	1.1 U
N-Heptane	0.20 U	0.82 U	0.20 U	0.82 U	0.20 U	0.82 U
N-Propylbenzene	0.20 U	0.98 U	0.20 U	0.98 U	0.20 U	0.98 U
o-Xylene	0.20 U	0.87 U	0.59	2.6	0.93	4.0
Styrene	0.20 U	0.85 U	0.20 U	0.85 U	0.20 U	0.85 U
tert-Butyl alcohol	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U
tert-Butylbenzene	0.20 U	1.1 U	0.20 U	1.1 U	0.20 U	1.1 U
Tetrachloroethene	0.20 U	1.4 U	0.20 U	1.4 U	0.38	2.6
Tetrahydrofuran	5.0 U	15 U	5.0 U	15 U	5.0 U	15 U
Toluene	0.20 U	4.5	2.0	7.5	1.5	5.8
trans-1,2-Dichloroethene	0.20 U	0.79 U	0.20 U	0.79 U	0.20 U	0.79 U
trans-1,3-Dichloropropene	0.20 U	0.91 U	0.20 U	0.91 U	0.20 U	0.91 U
Trichloroethene	0.20 U	3.5	1.0	5.4	1.6	8.4
Trichlorofluoromethane (CFC-11)	0.20 U	1.1 U	0.23	1.3	0.28	1.6
Trifluorotrichloroethane (Freon 113)	0.20 U	1.5 U	0.20 U	1.5 U	0.20 U	1.5 U
Vinyl bromide (Bromoethene)	0.20 U	0.87 U	0.20 U	0.87 U	0.20 U	0.87 U
Vinyl chloride	0.20 U	0.51 U	0.20 U	0.51 U	0.20 U	0.51 U
Xylenes (total)	0.20 U	0.87 U	2.5	11	3.8	17

Notes:

U - Not detected at the associated reporting limit.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
INDOOR AIR ASSESSMENT BUILDINGS 7, 7A AND 8
GENERAL MOTORS CORPORATION
LOCKPORT, NEW YORK
MARCH 2014

			Holding Time	
Parameter	***Method***	***Matrix***	***Collection to Extraction (Days)***	***Collection or Extraction to Analysis (Days)***
VOC	TO-15 [1]	Air	-	30

Notes

[1] - "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999

VOC - Volatile Organic Compound