GEI Consultants

Geotechnical
Environmental
Water Resources
Ecological

Upgradient Assessment Investigations Findings Report

Former Gastown MGP Site, Tonawanda, New York
Order No. A9-0599-05-08
Site No. 9-15-171

Submitted to:
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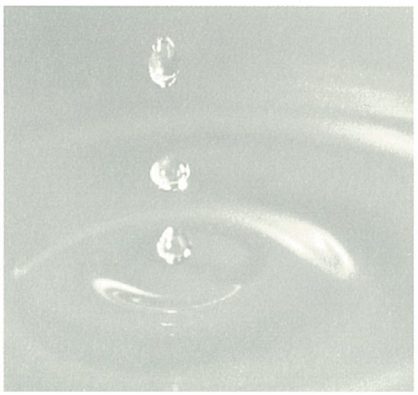
June 28, 2010

Project 09122-0



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Acronyms and Abbreviations

EPA	U.S. Environmental Protection Agency
FSP	Field Sampling Plan
GEI	GEI Consultants, Inc.
HASP	Health and Safety Plan
MGP	Manufactured Gas Plant
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polyaromatic Hydrocarbon
PID	Photoionization Detector
PRAP	Proposed Remedial Action Plan
PVC	Polyvinyl Chloride
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance / Quality Control
ROD	Record of Decision
SJB	SJB Drilling Services, Inc.
SSDS	Sub-Slab Depressurization System
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
USDOT	United States Department of Transportation
VOC	Volatile Organic Compound

Certification

I, Michael D. Zukauskas of GEI Consultants, Inc, certify that I am currently a registered professional engineer in the State of New York, I had primary responsibility for the implementation of the Upgradient Assessment Investigation, and I certify that the New York State Department of Environmental Conservation (NYSDEC)-approved Upgradient Assessment Work Plan (UAWP) was implemented, and that all activities were completed in substantial conformance with the UAWP.

Work for this project was performed, and this report prepared, in accordance with generally acceptable professional practices for the nature and condition of work completed in the same or similar localities, at the time the work was performed.

I have been authorized and designated by National Fuel Gas Distribution Corporation to provide this certification. This report is intended for the exclusive use of National Fuel Gas Distribution Corporation for specific application to the subject property in Tonawanda, New York.

085111	06/28/10	
NYS Professional Engineer #	Date	Michael D. Zukauskas GEI Consultants, Inc.

1. Introduction

On behalf of National Fuel Gas Distribution Corporation (National Fuel), GEI Consultants, Inc., (GEI) is submitting this Upgradient Assessment Investigation Findings Report. This report summarizes hydrogeologic, soil vapor, and ambient air data collected in connection with National Fuel's development of the remedial design for the Former Gastown Manufactured Gas Plant (MGP) site located at 126 East Niagara Street in Tonawanda, New York (the Site; Fig. 1). The Upgradient Assessment Work Plan was approved by the New York State Department of Environmental Conservation (NYSDEC) on June 30, 2009.

The investigation included a groundwater study to evaluate potentially complex hydrogeologic conditions in the vicinity of the Site and in conjunction with the remedial design for the Site. The Area of Interest (AOI) (Fig. 1) is located near the confluence of Tonawanda Creek (Erie Canal) and Ellicott Creek which may result in complex groundwater flow conditions.

In addition to the groundwater evaluation, potential sources of soil vapor impacts observed at the 72 East Niagara Street property were evaluated. Soil vapor concentrations obtained by GEI in September 2008 indicated the presence of elevated soil vapor concentrations compared to data previously obtained by NYSDEC and the New York State Department of Health (NYSDOH). The source of these soil vapor concentrations is not currently known; however, it does not appear to be from impacts related to the former MGP.

1.1 Physical Setting

The AOI is located adjacent to the Site at 126 East Niagara Street in the City of Tonawanda, Erie County, New York. Sampling for this report was done off-Site in an area approximately 36 acres in size and is bounded by East Niagara Street, Fillmore Street, and Carey Street (Fig. 2). The former MGP Site property is approximately 1.6 acres in size and is bounded by railroad tracks to the west and south, residential neighborhoods to the east and west beyond the railroad tracks, and Tonawanda Creek to the north.

1.2 Objectives

The objectives of this Upgradient Assessment were to evaluate hydrogeologic conditions, potential upgradient dissolved-phase contaminant migration, and potential sources of elevated soil vapor concentrations at the 72 East Niagara Street property. A thorough assessment of groundwater flow patterns in the AOI was performed in consideration of the change of flow direction of Tonawanda Creek at certain times related to operation of the locks on Tonawanda Creek. In addition to the groundwater evaluation, a potential soil vapor

intrusion pathway evaluation was performed at the Open Bible Baptist School (the "School") at 72 East Niagara Street. Soil vapor concentrations observed by GEI in September 2008 indicated the presence of elevated soil vapor contaminant concentrations compared to data previously obtained by NYSDEC and NYSDOH.

All work was conducted in accordance with the May 2010 Upgradient Assessment Investigations Work Plan and the September 2008 Quality Assurance Project Plan (QAPP), Field Sampling Plan (FSP), and Site-specific Health and Safety Plan (HASP) submitted to and previously approved by the NYSDEC by letter dated February 3, 2009 as part of the Remedial Design Work Plan for the Site.

1.3 Sub-Slab Depressurization System

On behalf of National Fuel, GEI completed the installation of a Sub-slab Depressurization System (SSDS) at the School on October 31, 2008. The SSDS consists of 10 extraction points connected to a 5 horsepower (HP) blower located on the roof of the building. The SSDS has operated since installation except for one power supply interruption and scheduled shut-downs for maintenance tasks.

2. Field Investigations

GEI conducted sampling of soil, soil vapor, groundwater, indoor air, and outdoor air as part of the Upgradient Assessment. Soil vapor, indoor air, and outdoor air were sampled at the School on August 11, 2009 and January 20, 2010. A sampling event was planned for November 19, 2009, but was postponed until January 20, 2010 due to a painting project inside the School that would have affected indoor samples. Samples collected in August 2009 were analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), but were inadvertently disposed of by the laboratory before additional analyses could be requested. As a result, GEI re-sampled soil vapor, indoor air, and outdoor air at the School in January 2010. Sampling locations are shown on Fig. 4.

2.1 Soil

To evaluate soil conditions in the AOI, GEI retained SJB Drilling Services, Inc. (SJB) of Hamburg, New York to advance 10 soil borings to a depth of approximately 15 feet. A Geoprobe® rig with MacroCore® core barrel was used to advance the borings. Each boring was logged by GEI personnel and continuously screened for total VOCs using a photoionization detector (PID). Data from monitoring well (GT-MW-74) was also included as part of the Upgradient Assessment (originally drilled as part of the larger remedial investigation).

Four soil samples were selected for laboratory analysis where visual observations or soil screening indicated potential unsaturated zone contamination. Samples were shipped overnight under chain of custody to Alpha Analytical Laboratory (Alpha) in Westborough, Massachusetts, an Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. Soil Boring Logs are provided in Appendix A.

2.2 Groundwater

2.2.1 Groundwater Monitoring Well Installation

GEI observed SJB install monitoring wells in each borehole. Each monitoring well was screened across the apparent water table and was constructed with a l0-foot length of pre-packed 2-inch outer diameter, 3/4-inch inner diameter; 0.010 inch slotted monitoring well screen and 3/4-inch inner diameter polyvinyl chloride (PVC) riser pipe. One to 2 feet of silica sand was placed above the screen interval and the borehole annulus was sealed with a bentonite seal. Each well head was completed with a flush-mount steel road box set in a concrete pad. The grout was allowed to set for a minimum of 48 hours. Before sampling, each well was developed in accordance with the procedures described in the FSP. In general,

3 to 10 well volumes were purged from the well to remove fine soil particles that may have been trapped in the monitoring well, sand pack, and screen. Well Installation and Development Logs are provided in Appendix B.

2.2.2 Groundwater Sampling

Between September 16 and 18, 2009 (more than 2 weeks after well development) each monitoring well was sampled in accordance with methods described in the FSP. Groundwater samples were shipped overnight under a chain-of-custody form to Alpha and analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method 8260B and SVOCs including polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270. Groundwater Sampling Checklists are provided in Appendix C.

Quality Assurance / Quality Control (QA/QC) groundwater samples were collected and analyzed as specified in the QAPP. QA/QC samples included one blind duplicate, one Matrix Spike/Matrix Spike Duplicate (MS/MSD), and one field rinsate blank. The QA/QC samples were analyzed for the same suite of analytes as the samples submitted for laboratory analysis. Trip blank samples were included with each shipment of samples to the laboratory and were analyzed for VOCs.

2.3 Soil Vapor

2.3.1 Soil Vapor Sampling Point Installation

GEI observed SJB install six permanent exterior soil vapor monitoring points at the School on August 4, 2009 (Fig. 4). At each location, a 6-inch stainless steel Geoprobe® Series AT86 Implant (soil vapor screen) was connected to Teflon tubing and installed to a depth of 5 feet using a Geoprobe® rig. The annular space surrounding the vapor screen interval up to a minimum of 6 inches above the top of the screen was filled with coarse silica sand to create a sampling zone 1 foot in length. The annular space from about 4 feet to the surface was filled with a bentonite slurry to prevent outdoor air infiltration. A Swagelok® fitting was attached at the top of the tubing, and a 6-inch-diameter aluminum road box was installed flush with the ground surface to protect the fitting (Fig. 5).

2.3.2 Sub-Slab Sampling Point Installation

GEI installed three permanent sub-slab soil vapor monitoring points inside the School on August 5, 2009 (Fig. 4). At each location, a 6-inch stainless steel Geoprobe® Series AT86 Implant (soil vapor screen) was connected to Teflon tubing and installed approximately 1 foot below the bottom of the basement floor slab. The annular space surrounding the vapor screen up to the base of the slab was filled with coarse silica sand to create a sampling zone approximately 1 foot in length. The annular space above the sampling zone was filled with

Portland cement to create an airtight seal and to secure the Swagelok® fitting that was attached at the top of the tubing. A 4-inch-diameter PVC access port with brass cover was installed flush with the slab surface to protect the sample fitting (Fig. 6).

2.3.3 Soil Vapor and Sub-Slab Sampling

Soil vapor and sub-slab samples were collected as part of the Upgradient Assessment at the School on August 11, 2009 and January 20, 2010 in general accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. A sub-slab sample was collected prior to the Upgradient Assessment on September 18, 2008. Samples were collected into 2.7-liter individually-certified Summa® canisters using a flow controller calibrated for a 1-hour sample collection. Prior to sampling, a pump was used to remove at least 3 volumes of air from the sampling screen and tubing. Canister pressure and sampling times were recorded on Field Sampling Forms that are provided in Appendix C. Following sampling, the canisters were closed, packaged, and shipped overnight with a chain-of-custody form to Alpha. Samples were analyzed for VOCs and naphthalene via EPA Method TO-15.

QA/QC soil vapor samples included one blind duplicate of soil vapor and one blind duplicate sub-slab soil vapor. Duplicate samples were collected at the same time as their parent samples by using a stainless steel tee-splitter connecting two Summa® cans to the sampling port.

The SSDS was shut down 1 week before both soil vapor and sub-slab sampling events to allow soil vapor to equilibrate with any adsorbed or dissolved phase contamination. The SSDS was also shut down from November 12 to 19, 2009 in preparation for a sampling event that was scheduled for November 19, 2009, which was canceled due to a painting project inside the School. During the shut-downs, GEI monitored indoor air VOC concentrations hourly with a PID and a data logger. The PID was calibrated approximately every 24 hours and did not indicate that indoor air VOCs increased during SSDS shut-downs.

2.3.3.1 **Tracer Gas Evaluation**

A helium tracer gas evaluation was used to identify any potential migration or short circuiting of ambient air during soil vapor and sub-slab sampling. A helium tracer gas was retained around the sample port at the ground surface by filling an air-tight chamber (an inverted plastic bucket) positioned over the sample location. The chamber was sealed to the ground using beeswax or VOC-free modeling clay and helium gas was introduced via tubing installed through the top of the chamber. A valve fitting was installed at the bottom to let the ambient air out while introducing the gas. The valve was closed after the chamber had been enriched with tracer gas to concentrations >10% as measured by an MGD-2002 helium gas detector.

The helium gas concentration in the chamber was measured periodically during sampling and readings were recorded on Field Sampling Forms (Appendix C). Additional helium gas was added as necessary to keep the chamber concentration above 10%. The helium gas detector was not working properly during the January 20, 2010 sampling event and helium concentrations in the tracer gas chambers could not be accurately measured. Therefore, helium gas was added during this sampling event at a frequency similar to the August 2009 sampling event to closely match tracer gas concentrations.

The soil vapor sample tubing passed through a small, airtight opening in the top of the tracer gas chamber. The sample tubing was purged after the tracer gas chamber had been filled with helium. Soil vapor samples were analyzed for helium via EPA Method 3C.

2.4 Indoor/Outdoor Air

On August 11, 2009 and January 20, 2010 three indoor air samples were collected in the basement of the School to confirm concentrations of VOCs previously observed by the NYSDEC. In addition, two ambient (outside) air samples were collected at the northwest and southeast margins of the property to evaluate the soil vapor and indoor air data in relation to ambient (outdoor) air conditions (Fig. 4). Samples were collected simultaneously into individually laboratory-certified clean 6-liter Summa® canisters using a flow controller calibrated for a 24-hour sample collection. Field conditions and sampling information were recorded on Field Sampling Forms provided in Appendix C. Samples were analyzed for VOCs and naphthalene via EPA modified Method TO-15.

QA/QC air samples included one indoor air blind duplicate that was collected at the same time as its parent sample by placing two Summa® canisters at the same location.

2.5 Investigation-Derived Waste

Soil cuttings, decontamination fluids, and purge water generated during the Upgradient Investigation was combined with waste generated as part of the Site-wide Remedial Investigation activities. All investigation-derived waste was collected in 55-gallon U.S. Department of Transportation (USDOT) drums, stored on the Site, and disposed of appropriately under a non-hazardous waste profile.

3. Chemical Testing Results

3.1 Soil Testing Results

Soil samples were collected between July 28 and 30, 2009 from DPW-202, DPW-206 and DPW-209 and were sent to Alpha for analysis. GT-MW-74 was sampled on June 23, 2009. Samples were analyzed for VOCs via EPA Method 8260 and SVOCs via EPA Method 8270. No detections were measured for compounds analyzed. Soil chemical testing results are provided in Table 1 and Laboratory Reports are provided in Appendix D.

3.2 Groundwater Testing Results

Groundwater samples were collected between September 16 and 18, 2009 from 11 wells. Samples were analyzed for VOCs via EPA Method 8260 and SVOCs via EPA Method 8270. Trace concentrations of VOCs were measured in DPW-209 and DPW-210. Otherwise, no detections were measured for any of the compounds analyzed. Groundwater chemical testing results are provided in Table 2 and Laboratory Reports are provided in Appendix D.

3.3 Soil Vapor Testing Results

Soil vapor samples were collected on the School property on August 11, 2009 and January 21, 2010. Samples were analyzed for VOCs via EPA Method TO-15 with the addition of naphthalene and Helium via EPA Method 3C. Soil vapor sampling was unsuccessful at GT-DPV-04 and GT-DPV-05 on both sampling dates and from GT-DPV-02 on August 11, 2009, and GT-DPV-03 on January 21, 2010. Groundwater was observed in the tubing after sampling was attempted which is likely due to high groundwater table and prevented soil vapor from being collected at these sampling locations. Details are provided on the Field Sampling Forms in Appendix C.

Trace concentrations of VOCs were measured in soil vapor samples collected on both sampling dates. The sample from GT-DPV-03 in August 2009 was the only location where petroleum compounds were detected at low levels. Chemical testing results are provided in Table 3 and Laboratory Data Reports are provided in Appendix D.

3.4 Sub-Slab Testing Results

Sub-slab soil vapor samples were collected at the School on September 18, 2008, August 11, 2009 and January 21, 2010. Samples were analyzed for VOCs via EPA Method TO-15 with the addition of naphthalene and Helium via EPA Method 3C. Low concentrations of VOCs including Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) compounds were measured

in the sample from location GT-SS-01 collected on September 18, 2008. Generally, lower (trace) concentrations of VOCs were measured in subsequent sub-slab soil vapor samples in August 2009 and January 2010. Trace concentrations of Helium tracer gas were detected at all three sampling locations but the levels do not indicate a significant short-circuit pathway of ambient air into the sub-slab samples. Chemical testing results are provided in Table 4 and Laboratory Data Reports are provided in Appendix D.

3.5 Indoor/Outdoor Air Testing Results

Indoor and outdoor air samples were collected at the School on August 11, 2009 and January 21, 2010. Samples were analyzed for VOCs via EPA Method TO-15 with the addition of naphthalene. Trace concentrations of VOCs were measured in indoor and outdoor air samples in August 2009 and January 2010. Chemical testing results for indoor air are provided in Table 5 and outdoor air are provided in Table 6. Laboratory Data Reports are provided in Appendix D.

4. Discussion

4.1 Soil Conditions

Soil samples from DPW-202, DPW-206, DPW-209 and GT-MW-74 were analyzed for VOCs and SVOCs (Fig. 3). Visual observations and field screening data indicated the potential for unsaturated zone contamination in 3 of the 10 borings that were advanced as part of the Upgradient Assessment. However, no VOCs or SVOCs were detected in soil samples above the laboratory reporting limit.

4.2 Hydrologic Conditions

Groundwater level measurements taken in September 2009 indicate that groundwater in the vicinity of the AOI flows to the north-northwest toward Tonawanda Creek (Fig. 2). Groundwater samples from each of the 10 upgradient monitoring wells plus GT-MW-74 were sampled in September 2009 (Fig. 3). No contaminants were detected in groundwater samples above the laboratory reporting limit.

The School property is generally side-gradient of the former MGP Site and MGP-related impacts were not observed in groundwater in the vicinity of the School. In addition, the absence of contaminants in groundwater to the south and southwest of the Site suggest that dissolved phase contamination upgradient of the School is not present.

4.3 Vapor Intrusion Evaluation (72 East Niagara Street)

The NYSDEC conducted indoor air and soil vapor sampling at the School on February 28, 2008. The results indicated that low levels of contaminants in sub-slab soil vapor did not appear to be affecting indoor air quality, but did represent a potential issue related to soil vapor intrusion (Appendix E). Subsequently, GEI collected one sub-slab soil vapor sample from a different location in the building (gymnasium floor – GEI location SS-01) on September 18, 2008 to aid in developing design parameters for the installation of an SSDS. The results from the September 2008 sub-slab sampling indicated that soil gas concentrations were higher than previously reported by NYSDEC from February 2008 (Table 5, Appendix E). An SSDS was installed at the School in October 2008.

As part of this Upgradient Assessment GEI conducted additional soil vapor and sub-slab soil vapor sampling in August 2009 and January 2010 at the School. The SSDS was shut down 7 days prior to each sampling event to allow soil vapor concentrations to equilibrate. Chemical testing results from the Upgradient Assessment indicate that sub-slab soil vapor

concentrations were greatly reduced in 2009 and 2010 when compared with the sample from September 2008 (Table 3).

Indoor/outdoor air sampling was also conducted as part of this Upgradient Assessment in August 2009 and January 2010 (concurrent with soil vapor and sub-slab soil vapor sampling). Indoor air concentrations in August 2009 and January 2010 were similar to concentrations observed by NYSDEC in February 2008. Outdoor air concentrations were similar to indoor air concentrations suggesting that an open vapor intrusion pathway affecting indoor air quality is not likely.

The results of the vapor intrusion pathway evaluation at the School further support the NYSDOH conclusion that indoor air quality is not affected by sub-slab or soil vapor contaminants. Chemical constituents detected in indoor air are likely attributable to chemical storage inside the building (items such as paint, wood stain, cleaning products, etc.) and not to vapor intrusion. Low levels of contaminants detected in soil vapor are likely attributable to urban fill and past industrial use at the property. Additionally, observed concentrations in soil vapor and indoor air do not appear to be related to the MGP Site or any other upgradient source. There does not appear to be a vapor intrusion pathway from soil vapor to indoor air.

5. Conclusions

GEI conducted this Upgradient Assessment to evaluate hydrogeologic conditions, potential upgradient dissolved-phase contaminant migration, and potential sources of elevated soil vapor concentrations in the vicinity of the Gastown Former MGP Site located at 126 East Niagara Street in Tonawanda, New York. GEI also evaluated a potential soil vapor intrusion pathway at the School located at 72 East Niagara Street.

Groundwater flow in the vicinity of the Site is generally north-northwest towards Tonawanda Creek. The School is located west of the Site and does not appear to be directly downgradient of the Site. During the investigation conducted, upgradient sources of volatile or petroleum contamination were not discovered.

Soil vapor, sub-slab soil vapor, and indoor air concentrations measured at the School do not appear to be related to the Former MGP Site or to any dissolved-phase upgradient contaminant source. Contaminants detected at low levels in soil vapor at the School property may be attributed to urban fill and the historical industrial use of the property. Contaminants detected at low levels in indoor and outdoor air at the School are considered to be attributed to background conditions in an industrial area. There does not appear to be a complete vapor intrusion pathway at the School.

Based on the findings of this investigation, GEI concludes that sub-slab and soil vapor concentrations do not appear to be affecting indoor air quality at the School.

6. References

Earth Tech Northeast, Inc., 2004. *Remedial Investigation Report, Gastown Former MGP Site, Tonawanda, Erie County, New York, Site # 9-15-17*. December 2004.

New York State Department of Environmental Conservation, 2007. *Proposed Remedial Action Plan, Gastown Former MGP Site, Tonawanda, Erie County, New York, Site # 9-15-17*. February 2007.

New York State Department of Environmental Conservation, 2007. *Record of Decision, Gastown Former MGP Site, Tonawanda, Erie County, New York, Site # 9-15-17*. March 2007.

Tables

Table 1. Soil Analytical Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, NY

			Location Name:	DPW-202	DPW-206	DPW-209
			Sample Name:	DPW-202 (4-6)	DPW-206 (12.4-14.4)	DPW-209 (8.9-12)
			Sample Date:	7/29/09	7/28/09	7/30/09
Constituents	**6 NYCRR 375 SCO RES USE RES**	**6 NYCRR 375 SCO RES USE COMM**				
BTEX (mg/kg)						
Benzene	2.9	44		ND	ND	ND
Toluene	100	500		ND	ND	ND
Ethylbenzene	30	390		ND	ND	ND
o-Xylene	NE	NE		ND	ND	ND
p-Xylene	NE	NE		ND	ND	ND
Total BTEX	NE	NE		ND	ND	ND
Total PAHs (mg/kg)						
Total PAHs	NE	NE		ND	ND	ND
Other (%)						
Percent Solids	NE	NE		**80**	**90**	**87**
Other (mg/kg)						
Total Petroleum Hydrocarbons	NE	NE		ND	ND	ND

General Notes:

1. Samples collected after 6/26/2007 are validated. Qualifiers for these sampling events are validation qualifiers.
2. mg/kg - milligrams/kilogram or parts per million (ppm)
3. BTEX - benzene, toluene, ethylbenzene, and xylenes
4. VOCs - volatile organic compounds
5. PAHs - polycyclic aromatic hydrocarbons
6. SVOCs - semivolatile organic compounds
7. Total BTEX and Total PAH are calculated using detects only.
8. 6 NYCRR 375 SCO RESTRICTED USE RES - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Residential Soil Cleanup Objectives
9. 6 NYCRR 375 SCO RESTRICTED USE COMM - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Commercial Soil Cleanup Objectives
10. NE - not established
11. ND - not detected
12. Bolding indicates a detected concentration

Qualifying Notes:

U - indicates not detected at or above the reporting limit shown.
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated
R - rejected

Table 2. Groundwater Analytical Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP
Tonawanda, NY

	Sample Name:	DPW-201	DPW-202	DPW-203	DPW-204	DPW-206	DPW-XX	DPW-207	DPW-208	DPW-209	DPW-210	DPW-211
	Sample Date:	9/18/09	9/17/09	9/17/09	9/17/09	9/16/09	9/16/09	9/17/09	9/18/09	9/16/09	9/17/09	9/16/09
Constituents	**NYS AWQS**											
BTEX (ug/l)												
Benzene	1	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
p-Xylene	5	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Total BTEX	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Other VOCs (ug/l)												
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	NA	ND	ND	**0.65**	ND	ND
Methyl tert-butyl ether	10*	ND	ND	ND	ND	ND	NA	ND	ND	ND	**1.8**	ND
Naphthalene	10*	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Total PAHs (ug/l)												
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/l)												
Bis(2-ethylhexyl)phthalate	5	ND	ND	ND	ND	ND	**16**	ND	ND	ND	ND	ND

General Notes:

1. Samples collected after 6/26/2007 are validated. Qualifiers for these sampling events are validation qualifiers.
2. ug/L - micrograms per liter or parts per billion (ppb)
3. BTEX - benzene, toluene, ethylbenzene, and xylenes
4. VOCs - volatile organic compounds
5. PAHs - polycyclic aromatic hydrocarbons
6. SVOCs - semivolatile organic compounds
7. Total BTEX and Total PAHs
8. NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
9. * indicates the value is a guidance value and not a standard
10. NE - not established
11. NA - not analyzed
12. ND - not detected; total concentration is listed as ND because no compounds were detected in the group
13. Bolding indicates a detected concentration
14. Shading indicates that the detected result value exceeds NYS AWQS.

Qualifying Notes:

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated
R - rejected

Table 3. Analytical Soil Gas Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, NY

	Soil Vapor							
Sample Name:	**GT-DPV-01**	**GT-DPV-01**	**GT-DPV-02**	**GT-DPV-03**	**GT-DPV-06**	**GT-DPV-XX**	**GT-DPV-06**	**GT-DPV-XX**
Sample Date:	**8/11/09**	**1/21/10**	**1/21/10**	**8/11/09**	**8/11/09**	**8/11/09**	**1/21/10**	**1/21/10**
Constiutents								
BTEX (ug/m^3)								
Benzene	ND	ND	ND	**10.1**	ND	ND	ND	ND
Toluene	ND	ND	ND	**20.5**	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	**5.23**	ND	ND	ND	ND
o-Xylene	ND	ND	ND	**5.25**	ND	ND	ND	ND
p-Xylene	ND	ND	ND	**15.5**	ND	ND	ND	ND
Other VOCs (ug/m^3)								
Acetone	**65.4 J**	ND	**6.88 J**	ND	ND	**7.6 J**	ND	**4.31**
Butane	ND	ND	ND	**28.5**	**7.87 J**	**3.94 J**	ND	ND
2-Butanone	ND	ND	ND	ND	ND	**1.64**	ND	ND
t-Butyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	**3.42 J**	ND	**0.824 J**	ND	**0.828**
Chloroform	ND	ND	ND	**7.65**	**26.4**	**25.8**	**2.8**	**2.77**
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND
n-Decane	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3 U	3 U	3 UJ	6.01 U	3 U	1.2 U	3 U	1.2 U
Dichlorodifluoromethane	**2.61**	ND	ND	ND	**2.53**	**2.66**	**2.59**	**2.1**
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
n-Dodecane	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/m^3)								
p-Ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND
n-Heptane	ND	ND	ND	ND	ND	ND	ND	ND
n-Hexane	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND
Nonane	ND	ND	ND	ND	ND	ND	ND	ND
n-Octane	ND	ND	ND	ND	ND	ND	ND	ND
Pentane	ND	ND	ND	**16**	**6.5 J**	**3.88 J**	ND	ND
2-Propanol	**211 J**	ND	**163 J**	**14.2 J**	**27.8 J**	**13.9 J**	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	**1.79**	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
n-Undecane	ND	ND	ND	ND	ND	ND	ND	ND

Table 3. Analytical Soil Gas Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, NY

	Soil Vapor							
Sample Name:	**GT-DPV-01**	**GT-DPV-01**	**GT-DPV-02**	**GT-DPV-03**	**GT-DPV-06**	**GT-DPV-XX**	**GT-DPV-06**	**GT-DPV-XX**
Sample Date:	**8/11/09**	**1/21/10**	**1/21/10**	**8/11/09**	**8/11/09**	**8/11/09**	**1/21/10**	**1/21/10**
Constiutents								
Other (%)								
Helium	ND	ND	ND	**0.353**	ND	ND	ND	ND

General Notes:

1. ug/m^3 - micrograms per cubic meter
2. BTEX - benzene, toluene, ethylbenzene, and xylenes
3. VOCs - volatile organic compounds
4. ND - not detected
5. NA - not analyzed
6. Bolding indicates a detected result concentration
7. GT-DPV-XX - duplicate of GT-DPV-06

Qualifying Notes:

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 4. Analytical Soil Gas Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, NY

	Sub-slab Soil Vapor								
Sample Name	**081250-72ENIA-SS-1**	**GT-SS-01**	**GT-SS-01**	**GT-SS-02**	**GT-SS-02**	**GT-SS-03**	**GT-SS-XX**	**GT-SS-03**	**GT-SS-XX**
Sample Date	**9/18/08**	**8/11/09**	**1/21/10**	**8/11/09**	**1/21/10**	**8/11/09**	**8/11/09**	**1/21/10**	**1/21/10**
Constiutents									
BTEX (ug/m^3)									
Benzene	**1.2**	ND	ND	ND	ND	**1.03 J**	**1.89 J**	ND	ND
Toluene	**9**	**1.14**	ND	**0.898**	ND	**4.75 J**	**11.2 J**	ND	ND
Ethylbenzene	**8.3**	ND	ND	ND	ND	**0.907 J**	**2.06 J**	ND	ND
o-Xylene	**37.2**	ND	ND	ND	ND	**0.868**	**1.42**	ND	ND
p-Xylene	**44.2**	ND	ND	ND	ND	**2.54 J**	**4.11 J**	ND	ND
Other VOCs (ug/m^3)									
Acetone	**30.5**	**30.5 J**	**2.42 J**	**6.88 J**	ND	**99.2 J**	**106 J**	**2.83 J**	ND
Butane	NA	**1.19**	ND	**1.71**	ND	**3.39**	**3.15**	ND	**1.1 J**
2-Butanone	**11.5**	**3.6**	ND	**1.08**	**1.25 J**	**10.4**	**10.6**	ND	ND
t-Butyl alcohol	ND	**0.961**	ND	ND	ND	**0.867**	**1.35**	ND	ND
Carbon disulfide	**2.8**	**0.768 J**	ND	ND	ND	**1.14 J**	**1.68 J**	ND	ND
Chloroform	ND	**1.78**	ND	ND	ND	**1.85**	**1.69**	ND	ND
Chloromethane	ND	ND	ND	**0.552**	ND	**0.815**	**0.996**	ND	ND
Cyclohexane	**2.5**	ND	ND	ND	ND	ND	**0.918**	ND	ND
n-Decane	ND	ND	ND	ND	ND	**28.2**	**37.1**	ND	ND
1,4-Dichlorobenzene	**0.59**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	**0.7**	**2.55**	**2.43 J**	**2.52**	**2.34 J**	**2.48**	**2.5**	**2.26 J**	**2.32**
1,1-Dichloroethane	**0.24**	**0.833**	ND	ND	ND	ND	ND	ND	ND
n-Dodecane	NA	ND	ND	ND	ND	**5.66 J**	**11.3 J**	ND	ND
Other VOCs (ug/m^3)									
Ethanol	**4.7**	NA	NA	NA	NA	NA	NA	NA	NA
p-Ethyltoluene	**54.8**	ND	ND	ND	ND	0.982 U	0.982 U	ND	ND
n-Heptane	**3**	ND	ND	ND	ND	**1.12**	**1.58**	ND	ND
n-Hexane	**0.94**	1.76 U	ND	ND	ND	1.76 U	1.76 U	ND	ND
2-Hexanone	ND	**0.987**	ND	ND	ND	**1.49**	**1.97**	ND	ND
Isopropyl Alcohol	**0.78**	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Isobutyl Ketone	**0.75**	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	**1.76**	**1.99**	ND	ND
Naphthalene	**130**	**3.83**	ND	ND	ND	ND	ND	ND	ND
Nonane	NA	ND	ND	ND	ND	**2**	**2.33**	ND	ND
n-Octane	NA	ND	ND	ND	ND	**9.66 J**	**9.9 J**	ND	ND
Pentane	NA	**0.746**	ND	**0.932**	ND	**1.95 J**	**32.3 J**	ND	**0.843**
Propylene	**1.4**	NA	NA	NA	NA	NA	NA	NA	NA
2-Propanol	NA	**3.9 J**	**3.17 J**	**2.58 J**	ND	**12.2 J**	**13.1 J**	ND	ND
1,1,1-Trichloroethane	**23.6**	**17.1**	**8.92 J**	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	**1.1**	**11.3**	**2.58 J**	**16.7**	**2.42 J**	**18.6**	**17.1**	**2.77 J**	**2.89**
1,2,4-Trimethylbenzene	**153**	ND	ND	ND	ND	ND	**1.27**	ND	ND
1,3,5-Trimethylbenzene	**65**	ND	ND	ND	ND	0.982 U	0.982 U	ND	ND
n-Undecane	ND	ND	ND	ND	ND	**1.37 J**	**2.9 J**	ND	ND

Table 4. Analytical Soil Gas Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, NY

	Sub-slab Soil Vapor								
Sample Name	**081250-72ENIA-SS-1**	**GT-SS-01**	**GT-SS-01**	**GT-SS-02**	**GT-SS-02**	**GT-SS-03**	**GT-SS-XX**	**GT-SS-03**	**GT-SS-XX**
Sample Date	**9/18/08**	**8/11/09**	**1/21/10**	**8/11/09**	**1/21/10**	**8/11/09**	**8/11/09**	**1/21/10**	**1/21/10**
Constiutents									
Other (%)									
Helium	NA	**0.161**	ND	**0.220**	**0.144**	**1.90**	**1.72**	**1.74**	**1.96**

General Notes:

1. ug/m^3 - micrograms per cubic meter
2. BTEX - benzene, toluene, ethylbenzene, and xylenes
3. VOCs - volatile organic compounds
4. ND - not detected
5. NA - not analyzed
6. Bolding indicates a detected result concentration
7. GT-SS-XX - duplicate of GT-SS-03

Qualifying Notes:

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 5. Analytical Indoor Air Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, NY

Constituent	EPA BASE Indoor Air Concentrations 90th Percentile	Sample Name: GT-IA-CAF Sample Date: 8/11/09	GT-IA-CAF 1/21/10	GT-IA-CLS 8/11/09	GT-IA-CLS 1/21/10	GT-IA-GYM 8/11/09	GT-IA-XXX 8/11/09	GT-IA-GYM 1/21/10	GT-IA-XXX 1/21/10
BTEX (ug/m^3)									
Benzene	9.4	**0.846**	**0.798 J**	**1.05**	**0.728 J**	**0.849**	**0.916**	**0.718**	**0.769**
Toluene	43	**5.93**	**1.45 J**	**5.15**	**1.31 J**	**6.11**	**5.84**	**1.38**	**1.38**
Ethylbenzene	5.7	**0.915**	ND	**0.872**	ND	**0.911**	ND	ND	ND
o-Xylene	22.2	**0.994**	ND	**0.915**	ND	**1.02**	**0.902**	ND	ND
p-Xylene	7.9	**2.53**	ND	**2.45**	ND	**2.7**	**2.29**	ND	ND
Other VOCs (ug/m^3)									
Acetone	NE	**54.2 J**	**14.7 J**	**45.5 J**	**13.5 J**	**46.7 J**	**46 J**	**9.95 J**	**10.8 J**
Butane	NE	**2.73**	**13.2 J**	**4.58**	**12.2 J**	**2.37**	**2.45**	**11.2**	**10.9**
2-Butanone	12	**9.46**	**1.44 J**	**7.74**	**1.42 J**	**8.17**	**8.14**	**1.02**	**1.16**
t-Butyl alcohol	NE	**0.891**	ND	ND	ND	**0.809**	**0.74**	ND	ND
Carbon disulfide	4.2	**1.18 J**	ND	**1.11 J**	ND	**1.02 J**	**1.02 J**	ND	ND
Chloroform	1.1	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	3.7	**0.904**	**1.11 J**	**0.91**	**1.13 J**	**0.97**	**0.968**	**1.08**	**1.11**
Cyclohexane	NE	ND	ND	ND	ND	ND	ND	ND	ND
n-Decane	17.5	**3.89**	ND	**2.89**	ND	**4.21**	**4.53**	ND	ND
Dichlorodifluoromethane	16.5	**2.41**	**2.36 J**	**2.41**	**2.41 J**	**2.48**	**2.5**	**2.39**	**2.35**
1,1-Dichloroethane	0.7	ND	ND	ND	ND	ND	ND	ND	ND
n-Dodecane	15.9	ND	ND	ND	ND	ND	ND	ND	ND
n-Heptane	NE	**0.979**	ND	ND	ND	**0.926**	**1.02**	ND	ND
2-Hexanone	NE	**1.31**	ND	**1.04**	ND	**1.18**	**1.22**	ND	ND
4-Methyl-2-pentanone	6	**1.62**	**2.56 J**	**1.32**	**3.68 J**	**1.32**	**1.56**	**1.59 J**	**1.46 J**
Naphthalene	5.1	ND	ND	ND	ND	ND	ND	ND	ND
Nonane	7.8	**2.43**	ND	**1.94**	ND	**2.78**	**2.73**	ND	ND
n-Octane	4.5	**1.37 J**	ND	ND	ND	**1.73 J**	**1.47 J**	ND	ND
Pentane	NE	**2.48**	**2.48 J**	**2.14**	**2.19 J**	**2.03**	**1.86**	**1.73**	**1.74**
2-Propanol	250	**20.3 J**	**24.3 J**	**25.8 J**	**12.5 J**	**14.2 J**	**15.4 J**	**10.1**	**9.52**
1,1,1-Trichloroethane	20.6	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	18.1	**15.8**	**8.05 J**	**11.7**	**6.84 J**	**13.6**	**12.8**	**5.11**	**5.25**
1,2,4-Trimethylbenzene	9.5	**2.03**	ND	**1.96**	ND	**2.25**	**1.97**	ND	ND
n-Undecane	22.6	**2.47**	ND	**1.8**	ND	**2.42**	**2.96**	ND	ND
Other (%)									
Helium	NE	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:

1. ug/m^3 - micrograms per cubic meter
2. BTEX - benzene, toluene, ethylbenzene, and xylenes
3. VOCs - volatile organic compounds
4. ND - not detected
5. NA - not analyzed
6. NE - not established
7. Bolding indicates a detected result concentration
8. GT-IA-XX - duplicate of GT-IA-GYM

Qualifying Notes:

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

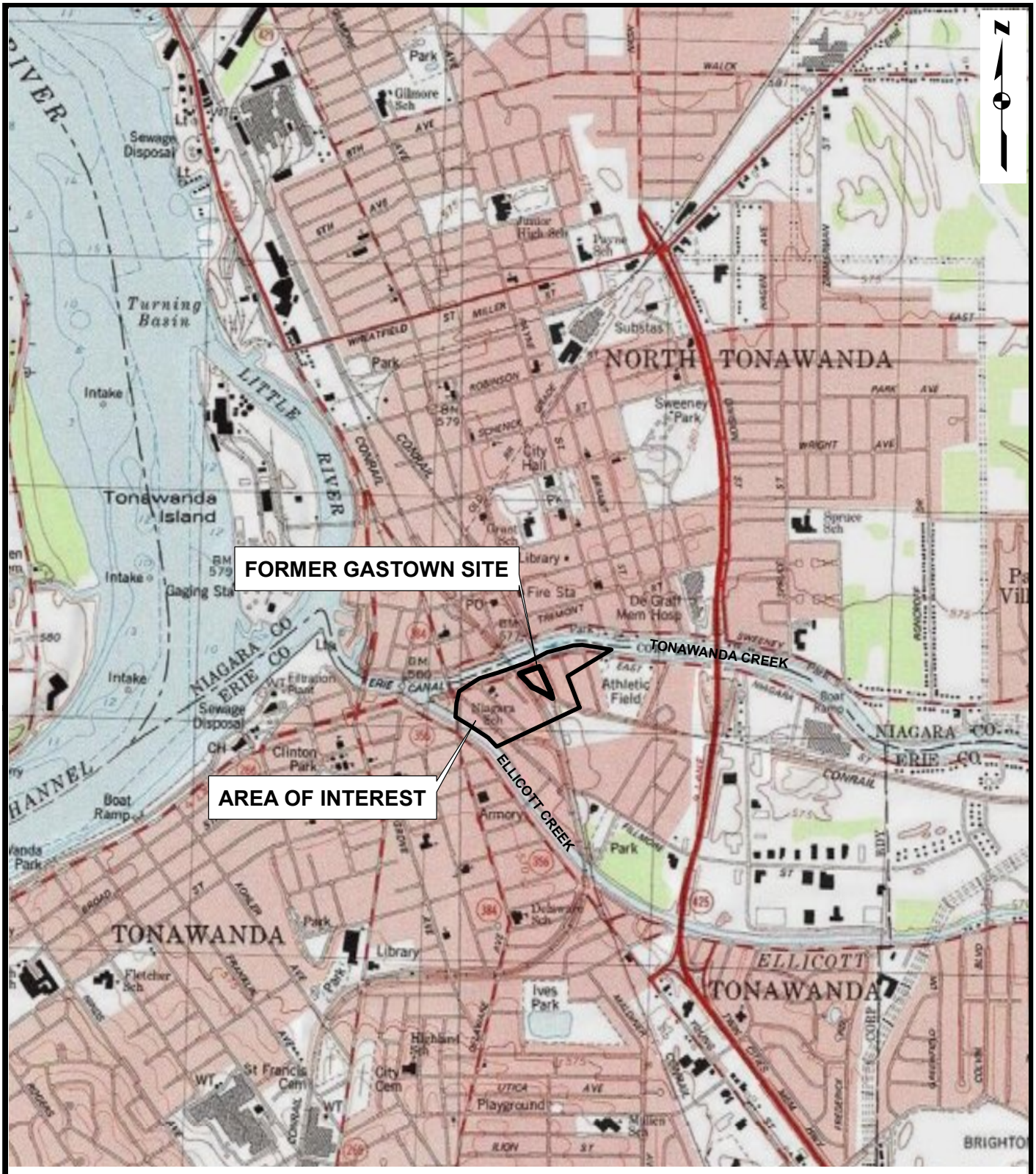
Table 6. Analytical Outdoor Air Results
Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, New York

Constituent	EPA BASE Outdoor Air Concentrations 90th Percentile	Sample Name: GT-OA-NW Sample Date: 8/11/09	GT-OA-NW 1/21/10	GT-OA-SE 8/11/09	GT-OA-SE 1/21/10
BTEX (ug/m^3)					
Benzene	6.6	**1.3**	**0.785 J**	**1.33**	**0.772 J**
Toluene	33.7	**2.74**	**1.3 J**	**4.55**	**1.29 J**
Ethylbenzene	3.5	ND	ND	ND	ND
o-Xylene	12.8	ND	ND	**0.883**	ND
p-Xylene	4.6	**1.41**	ND	**2.42**	ND
Other VOCs (ug/m^3)					
Acetone	NE	**12 J**	**2.6 J**	**6.55 J**	**4.83 J**
Butane	NE	**1.98**	**2.49 J**	**2.04**	**2.47 J**
2-Butanone	11.3	**1.51**	ND	**1.22**	**0.763 J**
Carbon disulfide	3.7	**0.89 J**	ND	**0.707 J**	ND
Chloromethane	3.7	**0.796**	**1.13 J**	**0.859**	**1.21 J**
Dichlorodifluoromethane	8.1	**2.09**	**2.41 J**	**2.2**	**2.55 J**
Pentane	NE	**1.64**	**1.13 J**	**2.36**	**1.24 J**
Trichlorofluoromethane	4.3	1.12 U	**1.16 J**	ND	**1.26 J**
Other (%)					
Helium	NE	NA	NA	NA	NA

General Notes:
1. ug/m^3 - micrograms per cubic meter
2. BTEX - benzene, toluene, ethylbenzene, and xylenes
3. VOCs - volatile organic compounds
4. NA - not analyzed
5. ND - not detected
6. NE - not established
7. Bolding indicates a detected result concentration

Qualifying Notes:
J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

Figures



SOURCE:
1. NATIONAL GEOGRAPHIC, TOPO

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UPGRADIENT ASSESSMENT INVESTIGATIONS FINDINGS REPORT
FORMER GASTOWN MGP SITE
TONAWANDA, NEW YORK

NATIONAL FUEL GAS DISTRIBUTION COMPANY
WILLIAMSVILLE, NEW YORK

GEI Consultants

SITE LOCATION MAP

Project 09122-0 | June 2010 | Fig. 1

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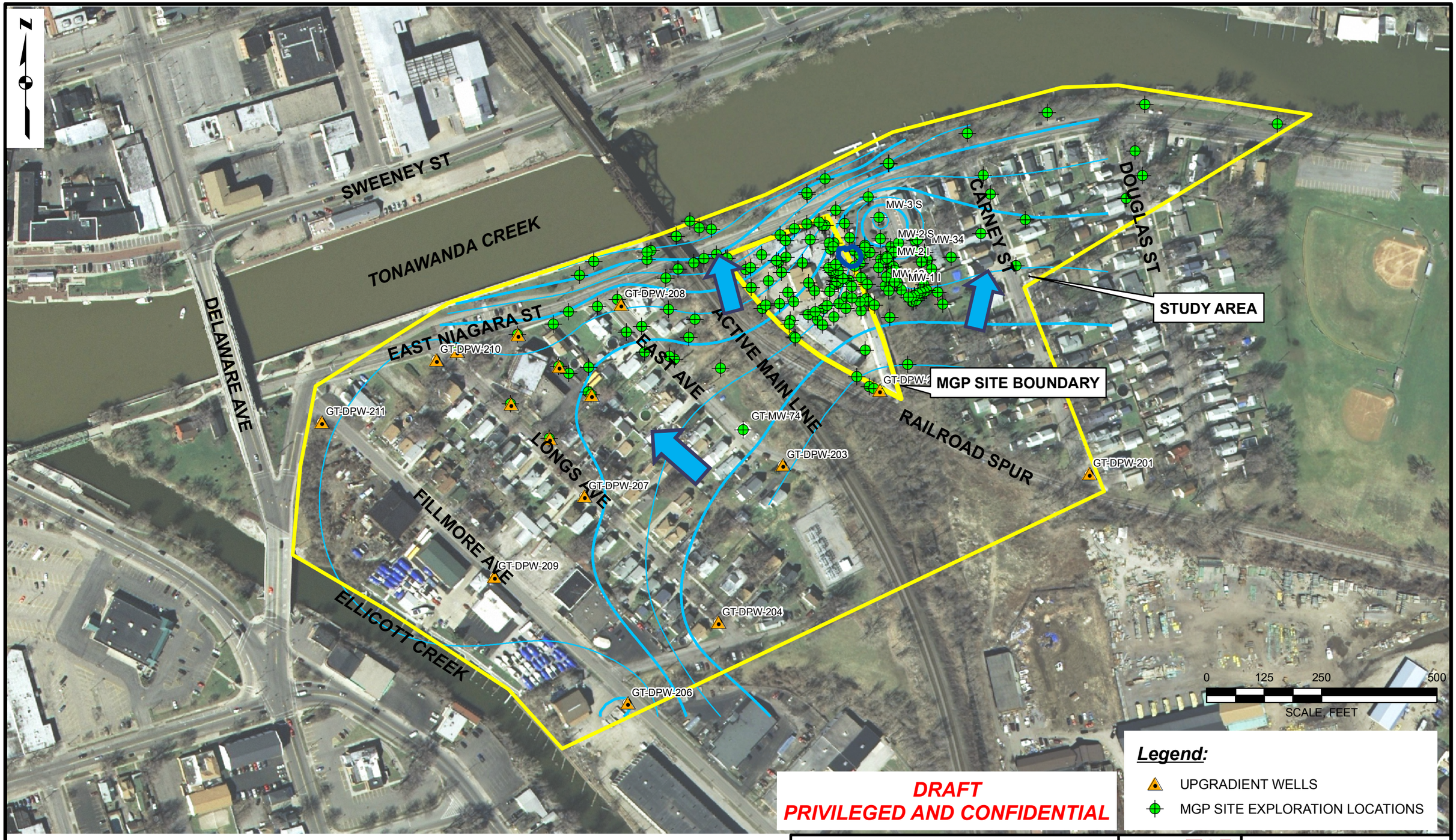

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PRIVILEGED AND CONFIDENTIAL

SOURCE:
1. LABELED WELLS USED FOR CONTOURS
2. PLAN BASED ON ELECTRONIC SURVEY FILE PREPARED BY POPLI, P.E., P.C. SURVEY DATE: NOV. 4, 2009.
3. HISTORICAL STRUCTURES FROM *FIGURE 1-3 HISTORIC SITE LAYOUT OF REMEDIAL INVESTIGATION REPORT, GASTOWN FORMER MGP SITE, SITE NO. 9-15-171, TONAWANDA, ERIE COUNTY, NY,* PREPARED BY EARTH TECH NORTHEAST, INC., LATHAM, NY., DATE: DEC, 2004.
4. SOME PROPERTY BOUNDARIES FROM TAX MAP 039.38, CITY OF TONAWANDA, ERIE COUNTY, NY., TOWNSHIP 12, RANGE 8, UPDATED: 1/28/03, SCALE: 1"=50'.

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UPGRADIENT ASSESSMENT INVESTIGATIONS FINDINGS REPORT
FORMER GASTOWN MGP SITE
TONAWANDA, NEW YORK

NATIONAL FUEL GAS DISTRIBUTION COMPANY

GEI Consultants

SITE PLAN & SHALLOW GROUNDWATER CONTOURS

Project 091220 | June 2010 | Figure 2

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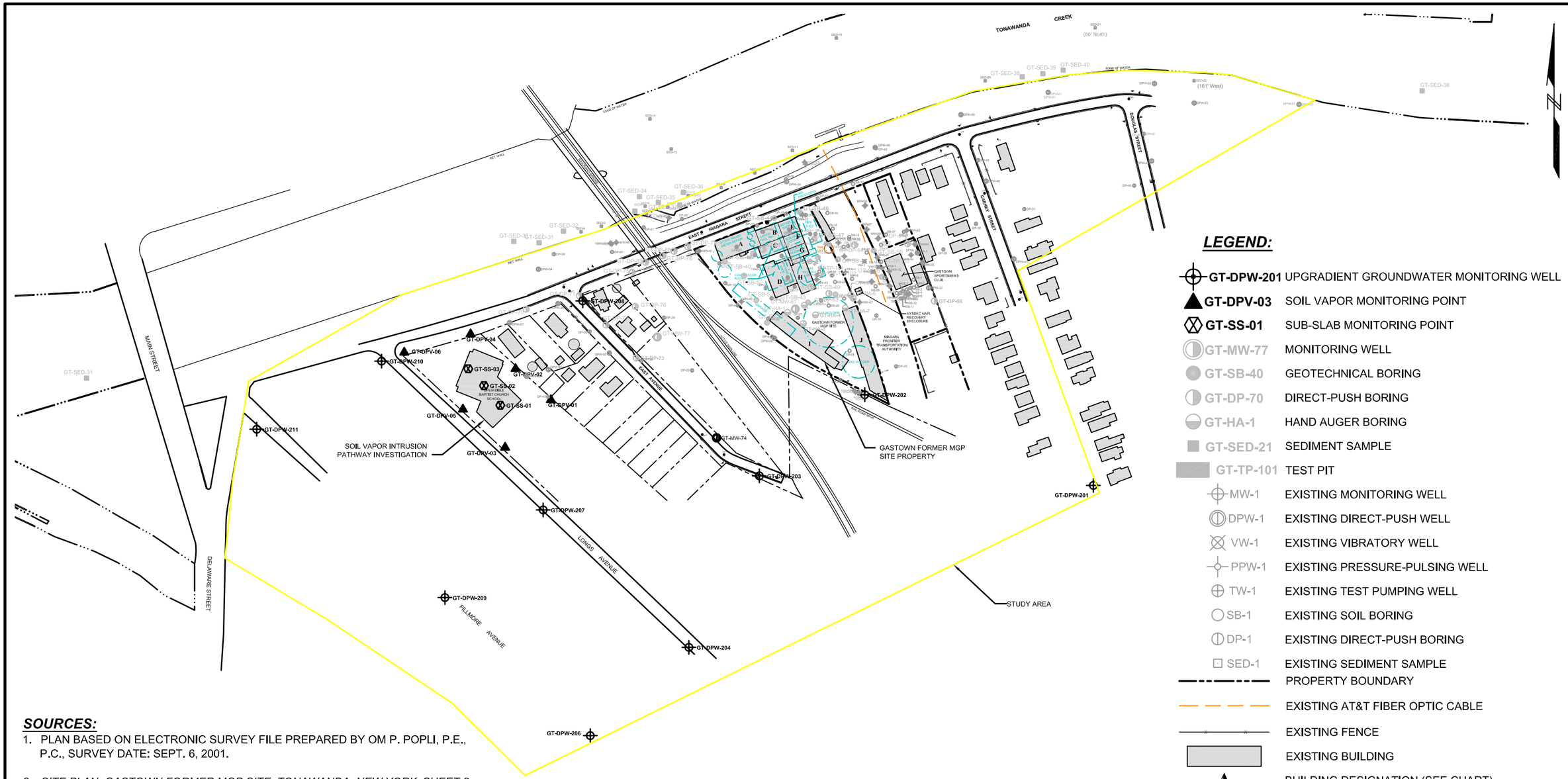

LEGEND:

GT-DPW-201	UPGRADIENT GROUNDWATER MONITORING WELL
GT-DPV-03	SOIL VAPOR MONITORING POINT
GT-SS-01	SUB-SLAB MONITORING POINT
GT-MW-77	MONITORING WELL
GT-SB-40	GEOTECHNICAL BORING
GT-DP-70	DIRECT-PUSH BORING
GT-HA-1	HAND AUGER BORING
GT-SED-21	SEDIMENT SAMPLE
GT-TP-101	TEST PIT
MW-1	EXISTING MONITORING WELL
DPW-1	EXISTING DIRECT-PUSH WELL
VW-1	EXISTING VIBRATORY WELL
PPW-1	EXISTING PRESSURE-PULSING WELL
TW-1	EXISTING TEST PUMPING WELL
SB-1	EXISTING SOIL BORING
DP-1	EXISTING DIRECT-PUSH BORING
SED-1	EXISTING SEDIMENT SAMPLE
	PROPERTY BOUNDARY
	EXISTING AT&T FIBER OPTIC CABLE
	EXISTING FENCE
	EXISTING BUILDING
A	BUILDING DESIGNATION (SEE CHART)
	EXISTING SIGN
	EXISTING MANHOLE
	EXISTING STORM DRAIN
	LIMIT OF STUDY AREA

SOURCES:

1. PLAN BASED ON ELECTRONIC SURVEY FILE PREPARED BY OM P. POPLI, P.E., P.C., SURVEY DATE: SEPT. 6, 2001.
2. *SITE PLAN, GASTOWN FORMER MGP SITE, TONAWANDA, NEW YORK,* SHEET 2, DRAWING NUMBER 19800209, PREPARED BY WSP ENGINEERING OF NEW YORK FOR NATIONAL FUEL GAS DISTRIBUTION CORPORATION, WILLIAMSVILLE, NEW YORK.
3. SOME STRUCTURES FROM ORTHOPHOTO OBTAINED FROM NEW YORK STATE INTERACTIVE MAPPING GATEWAY (http://www1.nysgis.state.ny.us/MainMap.cfm) PHOTO DATE: 2005, ACCESSED 8/01/08.
4. HISTORICAL STRUCTURES FROM *FIGURE 1-3 HISTORIC SITE LAYOUT* OF *REMEDIAL INVESTIGATION REPORT, GASTOWN FORMER MGP SITE, SITE NO. 9-15-171, TONAWANDA, ERIE COUNTY, NY,* PREPARED BY EARTH TECH NORTHEAST, INC., LATHAM, NY., DATE: DEC. 2004.
5. SOME PROPERTY BOUNDARIES FROM TAX MAP 039.38, CITY OF TONAWANDA, ERIE COUNTY, NY., TOWNSHIP 12, RANGE 8, UPDATED: 1/28/03, SCALE: 1" = 50'.

NOTE:

1. LOCATION OF AT&T FIBER OPTIC CABLE IS APPROXIMATE.
2. OWNER OR OCCUPANT INFORMATION IS BASED ON AN UNDATED DRAWING PROVIDED BY JACK HOLLER AND AUGUST 5, 2008 SITE VISIT.

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Upgradient Assessment Investigations Findings Report
Former Gastown MGP Site
Tonawanda, New York

National Fuel Gas Distribution Corporation
Williamsville, New York

GEI Consultants

DETAILED SITE PLAN

Project 09122-0 | June 2010 | Fig. 3

\\172.20.11.14\cad\Project\National Fuel Gas Dist Co\091220\Upgradient\Site Plan

EAST NIAGARA STREET

EAST AVENUE

LONGS AVENUE

GT-DPW-208

GT-DPW-210

GT-DPV-04

GT-DPV-06 (PLUS DUPLICATE)

GT-OA-NW

NX1

NX2

GT-SS-01

NX3

GT-IA-GYM (PLUS DUPLICATE)

GT-SS-02

GT-IA-CLS

SX3

SX1

SX2

EX4

EX3

EX2

GT-SS-03
(PLUS DUPLICATE)

EX1

GT-IA-CAF

GT-DPV-05

GT-DPV-02

OPEN BIBLE
BAPTIST CHURCH
SCHOOL

GT-OA-SE

GT-DPV-01

GT-DPV-03

N

SOURCE:

1. SOME PROPERTY BOUNDARIES FROM TAX MAP 039.38, CITY OF TONAWANDA, ERIE COUNTY, NY., TOWNSHIP 12, RANGE 8, UPDATED: 1/28/03, SCALE: 1" = 50'.

LEGEND:

- PROPERTY LINE
- SUBSLOT LINE
- EXISTING BUILDING
- SOIL VAPOR MONITORING POINT
- SUB-SLAB MONITORING POINT
- AMBIENT AIR SAMPLING
- GROUNDWATER MONITORING WELL
- NX3 SUB-SLAB EXTRACTION POINT
- SUB-SLAB DEPRESSURIZATION SYSTEM PIPING INSTALLED OCTOBER 31, 2008

0 40 80

SCALE, FEET

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Upgradient Assessment Investigations Findings Report
Former Gastown MGP Site
Tonawanda, New York

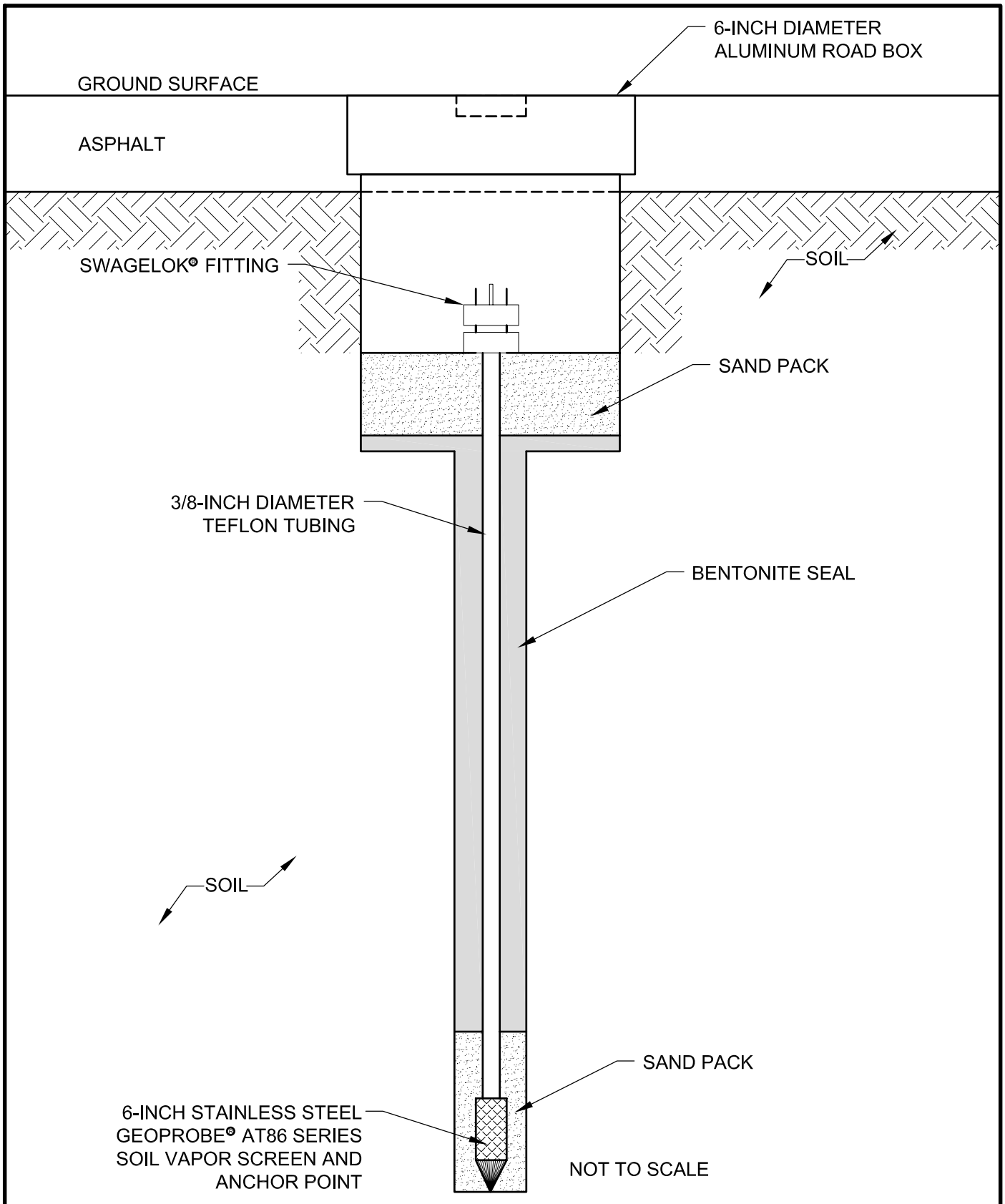
National Fuel Gas Distribution Corporation
Williamsville, New York

GEI Consultants

SOIL VAPOR INTRUSION
INVESTIGATION
72 EAST NIAGARA STREET

Project 09122-0 | June 2010 | Fig. 4

\\172.20.11.14\cad\Project\National Fuel Gas Dist Co\091220\Upgradient\09122-0 - SOIL VAPOR INTRUSION INVESTIGATION 4-13-2010



Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, New York

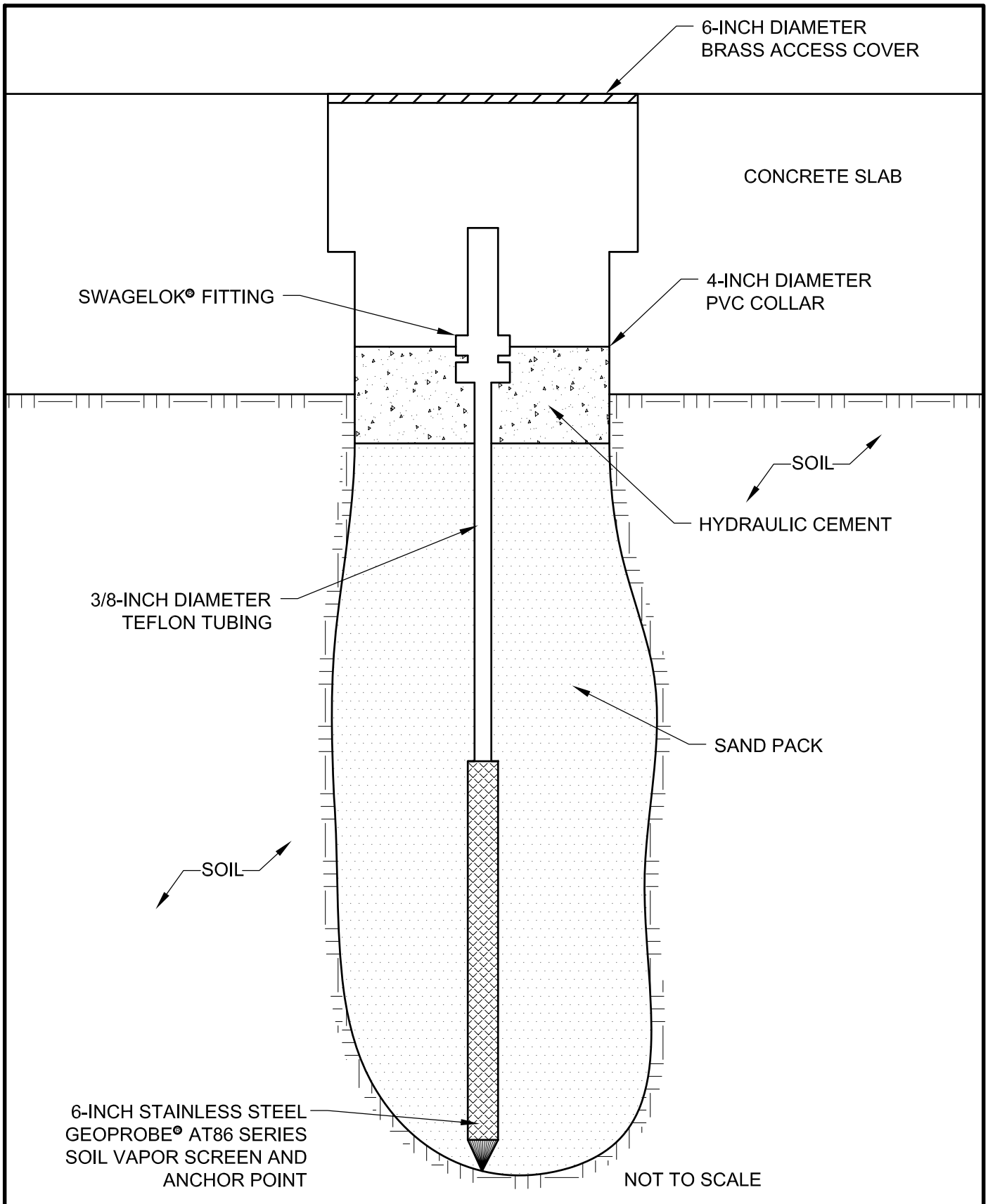
National Fuel Gas Distribution Company
Williamsville, New York

GEI Consultants

TYPICAL SOIL VAPOR
MONITORING POINT
CROSS SECTION

Project 09122-0 | June 2010 | Fig. 5

\\172.20.11.14\cad\Project\National Fuel Gas Dist Co\091220\Upgradient\Typical Soil Vapor Monitoring Point



Upgradient Assessment Investigations Findings Report
Gastown Former MGP Site
Tonawanda, New York

National Fuel Gas Distribution Company
Williamsville, New York

GEI Consultants

TYPICAL SUB-SLAB SOIL VAPOR MONITORING POINT CROSS SECTION

Project 09122-0 | June 2010 | Fig. 6

\\172.20.11.14\cad\Project\National Fuel Gas Dist Co\091220\Upgradient\Detail of Sub-Slab Monitoring Point

Appendix A

Boring Logs

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-201

GROUND SURFACE ELEVATION (FT): 574.85 **LOCATION:**
NORTHING (FT): 1100784 **EASTING (FT):** 1072039 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/30/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 11.00 7/30/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S1	48/30	PID= 3.1 ppm PID= 1.3 ppm			S1 (0'- 0.8') ASPHALT. S1 (0.8'- 1.5') GRAVEL SUBBASE. S1 (1.5'- 4') POORLY GRADED SAND (SP); ~70% sand, fine to medium, ~15% gravel, fine to coarse, ~15% fines; dry, brown, med. dense.
		S2	48/42	PID= 0.0 ppm		Sample ID= GT-DPW-201 (4.5-8)	S2 (4'- 4.6') Similar to S1 (1.5-4). S2 (4.6'- 8') SILT (ML); ~80% fines, non plastic, medium toughness; ~20% clay, moist to wet, brown reddish brown, slightly plastic with depth.
570	5						
		S3	48/48	PID= 0.0 ppm PID= 0.0 ppm			S3 (8'- 9') SILT (ML); ~60% fines, non plastic, low toughness, ~20% gravel, fine to coarse, Subangular, ~20% sand, fine to coarse; wet, brown, loose. S3 (9'- 12') GRAVELLY LEAN CLAY (CL); ~80% gravel; ~20% silt, wet, gray brown to gray pinkish brown.
565	10						
		S4	36/36	PID= 0.0 ppm			S4 (12'- 15') GRAVELLY LEAN CLAY (CL); high plasticity, low dry strength, medium toughness; wet, pinkish brown.
560	15						Bottom of borehole at 15.0 feet. Grouted upon completion

NOTES:

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NA = NOT APPLICABLE
NM = NOT MEASURED

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-202

GROUND SURFACE ELEVATION (FT): 576.22 **LOCATION:**
NORTHING (FT): 1100965 **EASTING (FT):** 1071583 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/29/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 5.50 7/29/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
575	0	S1	48/29	PID= 0.4 ppm PID= 0.9 ppm PID= 0.3 ppm				S1 (0'- 0.8') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse, subangular; max. size 1 in., dry, gray gray, mod loose. FILL. Coal fragments
		S2	48/48	PID= 0.2 ppm			Sample ID= GT-DPW-202 (4-6)	S1 (3.2'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; max. size 1 in., moist, brown orange, mod. loose. FILL. S2 (4'- 4.3') SILTY SAND WITH GRAVEL (SM); ~30% gravel, fine to coarse, ~30% sand, fine to coarse, ~30% fines; ~10% brick fragments, max. size 1 in., moist, gray brown, FILL. S2 (4.3'- 8') SILTY SAND (SM); ~80% sand, ~20% fines; moist to wet, brown orange, mod. loose, silt decreases with depth.
570	5							
		S3	48/48					S3 (8'- 11.4') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines; wet, brown, loose to very loose.
	10					PLO		S3 (11.4'- 12') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines; slight petroleum-like odor, wet, dark gray dark gray dark gray, mod. loose, slight hydrocarbon-like odor.
565		S4	36/28	PID= 0.2 ppm PID= 0.7 ppm		PLO		S4 (12'- 14.7') WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; slight petroleum-like odor, wet, gray, mod. loose to mod. dense, slight hydrocarbon-like odor at bottom of unit.
	15							S4 (14.7'- 15') GRAVELLY LEAN CLAY (CL); ~100% fines, high plasticity, no dilatancy, medium toughness; ~80% clay, pinkish gray. Bottom of borehole at 15.0 feet. Grouted upon completion

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ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

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455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-203

GROUND SURFACE ELEVATION (FT): 575.39 **LOCATION:**
NORTHING (FT): 1100803 **EASTING (FT):** 1071372 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/30/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 6.00 7/30/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
575	0	S1	48/26	PID= 0.0 ppm PID= 0.9 ppm			S1 (0'- 0.7') SILT WITH SAND (ML); ~80% fines, ~20% sand, fine to medium; dry, dark brown, trace roots and grass, mod. loose. TOPSOIL. S1 (0.7'- 4') WIDELY GRADED SAND WITH GRAVEL (SW); medium toughness, ~60% sand, fine to coarse, ~40% gravel, fine to coarse; max. size 1 in., dry, brown.
		S2	48/33	PID= 0.0 ppm		Sample ID= GT-DPW-203 (5.7-8)	S2 (4'- 6.3') Similar to S1 (0.7-4).
570 ▽	5						S2 (6.3'- 8') SILT (ML); ~100% fines, non plastic, high toughness; moist, grayish brown brown.
		S3	48/41	PID= 0.1 ppm			S3 (8'- 9.1') WIDELY GRADED SAND WITH GRAVEL (SW); ~55% sand, fine to coarse, ~35% gravel, fine to coarse, ~10% fines, medium toughness; max. size 1 in., wet, brown, mod. loose to med. dense. S3 (9.1'- 12') SILT (ML); ~100% fines, non plastic, high toughness; moist, brown gray brown.
565	10			PID= 0.0 ppm			
		S4	36/36	PID= 0.0 ppm PID= 0.0 ppm			S4 (12'- 13') GRAVELLY LEAN CLAY (CL); ~80% fines, high plasticity, ~20% gravel, fine to medium; wet, pinkish brown, soft. S4 (13'- 15') LEAN CLAY (CL); ~100% fines, high plasticity; wet, pinkish brown, soft.
	15						Bottom of borehole at 15.0 feet. Grouted upon completion

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MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-204

GROUND SURFACE ELEVATION (FT): 573.21 **LOCATION:**
NORTHING (FT): 1100461 **EASTING (FT):** 1071232 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/28/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 3.00 7/28/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	SOIL / BEDROCK DESCRIPTION
	0	S1	48/41	PID= 5.7 ppm		S1 (0'- 0.9') ASPHALT; gravel, dry, subbase, dense.
				PID= 0.1 ppm		S1 (0.9'- 3.4') SANDY SILT (ML); ~60% fines, ~40% sand; mottled, moist to wet, brown, trace orange mottling, moderate soft.
▽ 570						S1 (3.4'- 4') SANDY SILT (ML); ~60% fines, ~40% sand; mottled, wet, gray, trace orange mottling, modertae soft.
		S2	48/37	PID= 0.5 ppm		S2 (4'- 6.1') Similar to S1 (3.4-4), gray and brown, wet.
	5					S2 (6.1'- 8') WELL GRADED SAND WITH GRAVEL (SW); ~70% sand, ~20% gravel, subangular, ~10% fines; wet, brown, dense.
565		S3	48/38	PID= 1.4 ppm		S3 (8'- 11.5') WELL GRADED SAND WITH GRAVEL (SW); ~60% sand, ~40% gravel, subangular; wet, brown grayish, dense.
	10					S3 (11.5'- 12') SILT (ML); ~100% fines, non plastic, high toughness; ~15% clay, wet.
		S4	36/36	PID= 1.3 ppm		S4 (12'- 13.8') WELL GRADED SAND WITH GRAVEL (SW); ~60% sand, ~40% gravel, subangular; wet, medium, dense.
560						S4 (13.8'- 15') LEAN CLAY (CL); ~100% fines, high plasticity, no dilatancy; ~20% silt, wet, pinkish brown gray.
	15					Bottom of borehole at 15.0 feet. Grouted upon completion

NOTES:

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ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

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(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-206

GROUND SURFACE ELEVATION (FT): 575.71 **LOCATION:**
NORTHING (FT): 1100285 **EASTING (FT):** 1071035 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/28/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 6.00 7/28/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
575	0	S1	48/39	PID= 1.7 ppm			S1 (0'- 2.2') dry, Concrete fragments and road bed material, dense. FILL.
							S1 (2.2'- 4') SILT WITH SAND (ML); ~90% fines, ~10% sand, fine to medium; dry to moist, gray olive brown, moderate soft, plastic.
		S2	48/39	PID= 2.1 ppm		Sample ID= GT-DPW-206 (4-6)	S2 (4'- 5.8') Similar to S1 (2.2-4), moist.
	5						
570 ▽							S2 (5.8'- 6') WELL GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel; dry, brown, loose. S3 (6'- 8') SILTY SAND (SM); ~60% sand, fine, ~40% fines, non plastic; mottled, moist to wet, brown gray, moist to wet at 6ft bgs, moderate loose.
		S3	48/36	PID= 0.7 ppm			S3 (8'- 10.7') Similar to S2 (6-8), wet.
	10						
565							S4 (10.7'- 12') GRAVELLY SILT (ML); ~60% fines, medium toughness, ~40% gravel, fine to coarse, angular; mottled, wet, brown.
		S4	36/32	PID= 0.3 ppm			S4 (12'- 12.5') Similar to S3 (10.7-12).
							S4 (12.5'- 12.5') WELL GRADED SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~40% gravel, fine to coarse, angular; wet, gray, medium dense, faint odor.
	15						S4 (14.5'- 15') LEAN CLAY (CL); ~100% fines, high plasticity; ~70% clay, ~30% silt, wet. Bottom of borehole at 15.0 feet. Grouted upon completion

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ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-207

GROUND SURFACE ELEVATION (FT): 573.98 **LOCATION:**
NORTHING (FT): 1100735 **EASTING (FT):** 1070941 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/29/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 7.00 7/29/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S1	48/39	PID= 360 ppm			S1 (0'- 1.5') ASPHALT; dry, gravel subbase, medium dense.
							S1 (1.5'- 2.9') SILT (ML); ~90% fines, non plastic, ~10% sand, fine to coarse; dry, gray to light gray, medium stiff.
							S1 (2.9'- 4') SILT (ML); ~60% fines, non plastic, ~40% sand, fine to coarse; mottled, dry to moist, brown, medium stiff.
570		S2	48/43	PID= 2.0 ppm		Sample ID= GT-DPW-207 (3-5)	S2 (4'- 8') SILT (ML); ~80% fines, ~20% sand, fine; mottled, moist to wet, brown, medium stiff.
	5						
	▽						
		S3	48/44	PID= 0.3 ppm			S3 (8'- 11.2') fine to coarse; lensed, wet, brown gray, dense.
565							
	10						S3 (11.2'- 12') SILTY SAND (SM); ~60% sand, fine, ~40% fines; lensed, wet, mod. loose, little gravel, fine to coarse, at 11.9'.
		S4	36/36	PID= 0.1 ppm			S4 (12'- 15') LEAN CLAY (CL); ~100% fines, high plasticity; ~80% clay, ~20% silt, wet, pinkish gray.
560							
	15						Bottom of borehole at 15.0 feet. Grouted upon completion

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ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

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(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-208

GROUND SURFACE ELEVATION (FT): 575.02 **LOCATION:**
NORTHING (FT): 1101152 **EASTING (FT):** 1071020 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 8/3/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 6.00 8/13/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	SOIL / BEDROCK DESCRIPTION
	0	S1	48/38	PID= 0.235 ppm		S1 (0'- 1.3') WELL GRADED SAND WITH GRAVEL (SW); ~50% gravel, ~45% sand, fine to coarse, ~5% fines; gray to black.
						S1 (1.3'- 4') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine to medium, ~10% fines; dry to moist, brown with reddish.
		S2	48/41	PID= 0.031 ppm		S2 (4'- 5.6') Similar to S1 (1.3-4), moist.
570	5					
▽						S2 (5.6'- 8') SILTY SAND (SM); ~80% sand, fine to medium, ~20% fines; moist to wet, light brown gray and reddish orange.
		S3	48/44	PID= 0.022 ppm		S3 (8'- 9') Similar to S2 (5.6-8), wet.
						S3 (9'- 12') SILTY SAND (SM); ~80% sand, fine to medium, ~20% fines; moist, stiff. some shells and rootlets present, finer with depth.
565	10					
		S4	36/13	PID= 0.235 ppm		S4 (12'- 15') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine to medium, ~10% fines; wet, gray.
	15					Bottom of borehole at 15.0 feet. Grouted upon completion

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ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

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CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-209

GROUND SURFACE ELEVATION (FT): 575.03 **LOCATION:**
NORTHING (FT): 1100560 **EASTING (FT):** 1070745 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/30/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 6.00 7/30/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S1	48/26	PID= 1.2 ppm				S1 (0'- 0.5') Cored through Asphalt. ASPHALT. S1 (0.5'- 1.2') cored/chiseled throuh concrete. CONCRETE. S1 (1.2'- 2.3') SILTY SAND WITH GRAVEL (ML); ~60% fines, non plastic, ~20% gravel, fine to medium, ~20% sand, fine to coarse; moist, dark brown to dark black, trace coal fragments and wod fragments, slight hydrocarbon type odor, soft. FILL. S1 (2.3'- 4') SILT (ML); ~100% fines, low plasticity; moist, gray, mod. soft.
		S2	48/45	PID= 0.0 ppm				S2 (4'- 8') SANDY SILT (ML); ~60% fines, non plastic, ~40% sand, fine; wet, brownish gray, mod. soft.
570	5							
▽		S3	48/31	PID= 0.6 ppm			Sample ID= GT-DPW-209 (8.9-12)	S3 (8'- 9.3') Similar to S2 (4-8), soft and soupy. S3 (9.3'- 12') WELL GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; slight petroleum-like odor, wet, brown, slight natural gas-like odor.
565	10					PLO		
		S4	36/30	PID= 0.8 ppm				S4 (12'- 12.5') WELL GRADED SAND WITH GRAVEL (SW); ~60% sand, ~40% gravel; wet, brown, Similar to S3 (9.3-12), no odor. S4 (12.5'- 14.4') LEAN CLAY (CL); ~100% fines; ~30% silt, ~70% clay, wet, brown gray.
	15							S3 (14.4'- 15') WELL GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; wet, brown. Bottom of borehole at 15.0 feet. Grouted upon completion

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

NA = NOT APPLICABLE
NM = NOT MEASURED

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-210

GROUND SURFACE ELEVATION (FT): 573.94 **LOCATION:**
NORTHING (FT): 1101032 **EASTING (FT):** 1070619 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/29/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 3.00 7/20/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S1	48/39	PID= 0.3 ppm			S1 (0'- 0.6') POORLY GRADED SAND WITH SILT (SP-SM); ~70% sand, fine, ~30% fines; dry, dark brown brown, trace roots, moderate loose. TOPSOIL. S1 (0.6'- 4') SILT WITH SAND (ML); ~70% fines, non plastic, ~30% sand, fine; mottled, moist to wet, brown, trace rootlets, moderate soft.
▽							
570		S2	48/48	PID= 0.3 ppm		Sample ID= GT-DPW-210 (0.5-4)	S2 (4'- 8') SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; mottled, wet, gray brown to dark gray, increasing shell fragments with depth, soft.
	5						
		S3	48/48	PID= 0.4 ppm			S3 (8'- 12') ELASTIC SILT (MH); ~100% fines; mottled, ~30% clay, ~70% silt, wet, gray, trace rootlets and wood fragments, trace shell fragments with depth, moderate, soft, plastic.
565							
	10	S4	36/36	PID= 0.4 ppm			S4 (12'- 14.9') Similar to S3 (8-12), softer and soupier with depth.
560							
	15						S4 (14.9'- 15') WELL GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse, subangular; wet, gray, mod. loose. Bottom of borehole at 15.0 feet. Grouted upon completion

NOTES:

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TLO = TAR LIKE ODOR
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OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-DPW-211

GROUND SURFACE ELEVATION (FT): 575.13 **LOCATION:**
NORTHING (FT): 1100896 **EASTING (FT):** 1070370 **TOTAL DEPTH (FT):** 15.0
DRILLED BY: SJB / Randy Steiner **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: J. Sandorf **DATE START / END:** 7/28/2009
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 8.00 7/30/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	REMARKS	SOIL / BEDROCK DESCRIPTION
575	0	S1	48/21	PID= 0.2 ppm			S1 (0'- 3') dry, materials including brick fragments, coa fragments, cinders, mod. loose. FILL.
							S1 (3'- 4') SILT (ML); ~90% fines, ~10% sand, coarse; dry, brown, mod. soft.
		S2	48/43	PID= 0.1 ppm		Sample ID= GT-DPW-211 (4-7.7)	S2 (4'- 8') SILT (ML); ~80% fines, ~20% sand, fine to medium; dry to moist, brown, med.stiff to mod. soft.
570	5						
		S3	48/37	PID= 0.2 ppm			S3 (8'- 12') Similar to S2 (4-8), interbedded layers, mod. soft to soft, wet.
565	10						
		S4	36/7	PID= 0.1 ppm			S4 (12'- 15') SILT (ML); ~60% fines, non plastic, ~40% sand, fine; wet, brown, soft.
	15						Bottom of borehole at 15.0 feet. Grouted upon completion

NOTES:

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ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Fuel Gas
PROJECT: Gastown Former MGP
CITY/STATE: Tonawanda, New York
GEI PROJECT NUMBER: 091220-1002

BORING LOG
PAGE 1 of 1
GT-MW-74

GROUND SURFACE ELEVATION (FT): 573.89 **LOCATION:**
NORTHING (FT): 1100879 **EASTING (FT):** 1071287 **TOTAL DEPTH (FT):** 28.0
DRILLED BY: SJB / Art Koske **DATUM VERT. / HORZ.:** NAVD 1988 / NAD83
LOGGED BY: Gwen Macdonald **DATE START / END:** 6/23/2009
DRILLING DETAILS: Hollow Stem Auger/2 inch ID Split Spoon / Hammer: 140 lbs
WATER LEVEL DEPTHS (FT): ▽ 5.60 6/23/2009

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	REMARKS	SOIL / BEDROCK DESCRIPTION
	0	S1	48/42	PID= 0.5 ppm PID= 0.2 ppm				S1 (0'- 0.9') concrete/asphalt paving, gravel, crushed stone fragments, possible clinkers. FILL. S1 (0.9'- 2.5') SILTY SAND (SM); ~50% sand, fine to coarse, ~50% fines; black gray orange, brick and concrete fragments. FILL. S1 (2.5'- 4') SILTY SAND (SM); ~70% sand, fine to coarse, ~30% fines; gray to light gray, orange streaking.
570		S2	48/38	PID= 0.0 ppm				S2 (4'- 4.5') Similar to S1 (2.5-4), orange streaking.
	5							S2 (5.5'- 6.5') SILTY SAND (SM); ~80% sand, fine to medium, ~20% fines; wet, gray to orange. S2 (6.5'- 8') SILTY SAND (SM); ~65% sand, fine to coarse, ~20% gravel, coarse, ~15% fines; max. size 1.2 in., wet, orange gray.
565		S3	48/36	PID= 0.5 ppm			Sample ID= GT-MW-74 (8.75-10)	S3 (8'- 8.75') Similar to S2 (6.5-8), coarse gravel. S3 (8.75'- 10') SILTY SAND (SM); ~50% sand, ~10% fines; 20% fill (fill may be purifier waste). FILL.
	10			PID= 0.0 ppm				S3 (10'- 12') ELASTIC SILT (MH); ~100% fines, low plasticity; dry, brown gray.
560		S4	48/48	PID= 0.0 ppm				S4 (12'- 16') FAT CLAY (CH); ~100% fines, high plasticity, no dilatancy; ~80% clay, pinkish gray.
	15	S5	48/48	PID= 0.0 ppm				S5 (16'- 20') Similar to S4 (12-16).
555								
	20	S6	48/3	PID= 0.0 ppm				S6 (20'- 24') Similar to S4 (12-16).
550		S7	48/48					S7 (24'- 25') Similar to S4 (12-16), slightly redder in color.
	25			PID= 0.0 ppm				S7 (25'- 26.5') FAT CLAY WITH SAND (CH); ~80% fines, high plasticity, ~20% sand, coarse; ~20% silt, ~60% clay, moist, reddish brown, one 2" gravel chunk. S7 (26.5'- 28') SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~20% gravel, ~20% fines; max. size 1 in., moist, reddish brown, TILL. Bottom of borehole at 28.0 feet. Completed as monitoring well
				PID= 0.0 ppm				

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CrLO= CREOSOTE LIKE ODOR
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MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG GASTOWNBORINGLOGS_2010.GPJ GEI CONSULTANTS.GDT 4/14/10

Appendix B

Well Installation and Development Logs

Groundwater Well Installation Log

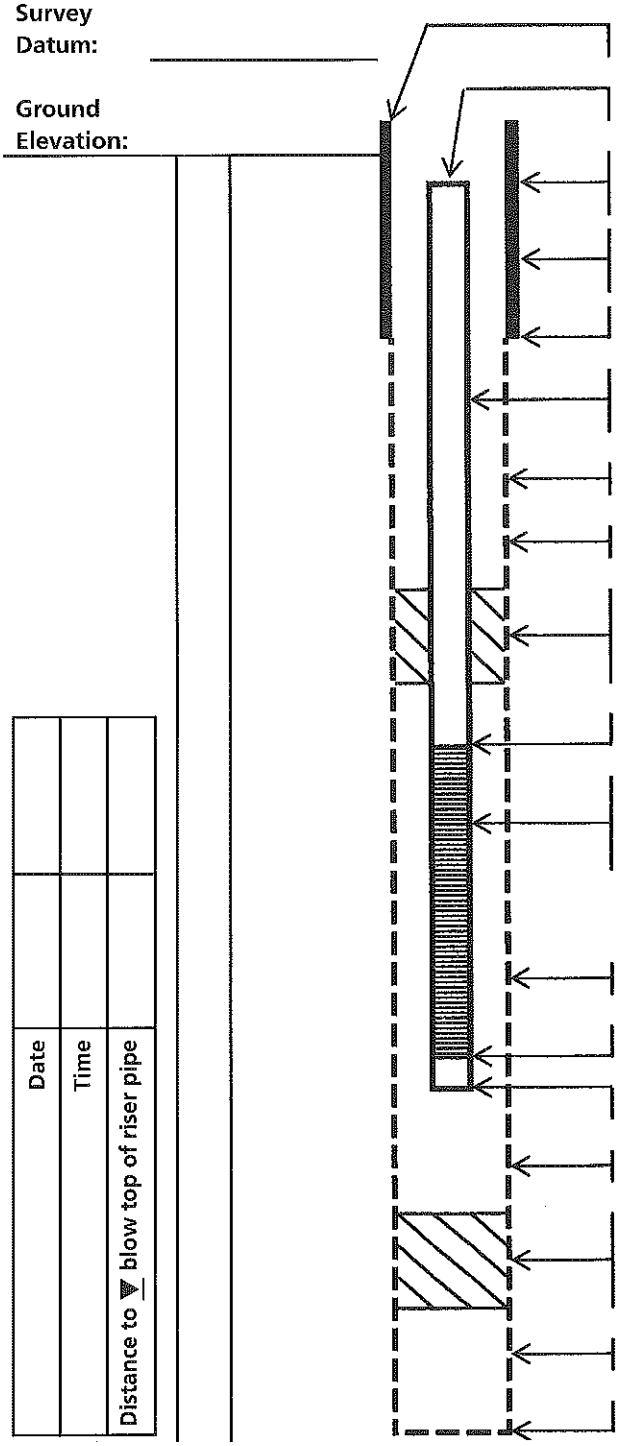
DPW-201

Project NFG Gasoline
City/Town Tonawanda city
Client National fuel gas
Contractor SJB Drilling
Driller Randy Shaver GEI Rep. J Sandorf

GEI Proj. No. 091220
Location DPW-201
S. end of Canal St
Install Date 2-20-09

Survey Datum: _____

Ground Elevation: _____



Length of Surface Casing above Ground: 0 flushmount
Dist. Top of Surf. Casing to Top of Riser Pipe: _____
Type and Thickness of Seal around Surface Casing: Concrete pad
ID of Surface Casing: 8"
Type of Surface Casing: flushmount cover
Depth of Bottom of Surface Casing: 12"
ID and OD of Riser Pipe: 3/4" ID
Type of Riser Pipe: Sch 40 PVC
Type of Backfill around Riser Pipe: N/A
Diameter of Borehole: 8"
Depth Top of Seal: 1' bgs
Type of Seal: granular bentonite
Depth Bottom of Seal: 3' bgs
Depth Top of Screened Section: 5' bgs
Type of Screen: prepack screen PVC
Description of Screen Openings: 0.010" slot
ID and OD of Screened Section: 3/4" ID, 1.4" OD
Type of Filter Material: #0 Sandblast Screen prepack screen
Depth Bottom of Screened Section: 15' bgs
Depth Bottom of Silt Trap: flushmount 15' bgs
Depth Bottom of Filter Material: 15' bgs
Depth Top of Sea
Type of Seal: N/A
Depth Bottom of Seal
Type of Backfill below Filter Material: _____
Bottom of Borehole: 15' bgs

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

GEI Consultants

Groundwater Well Installation Log

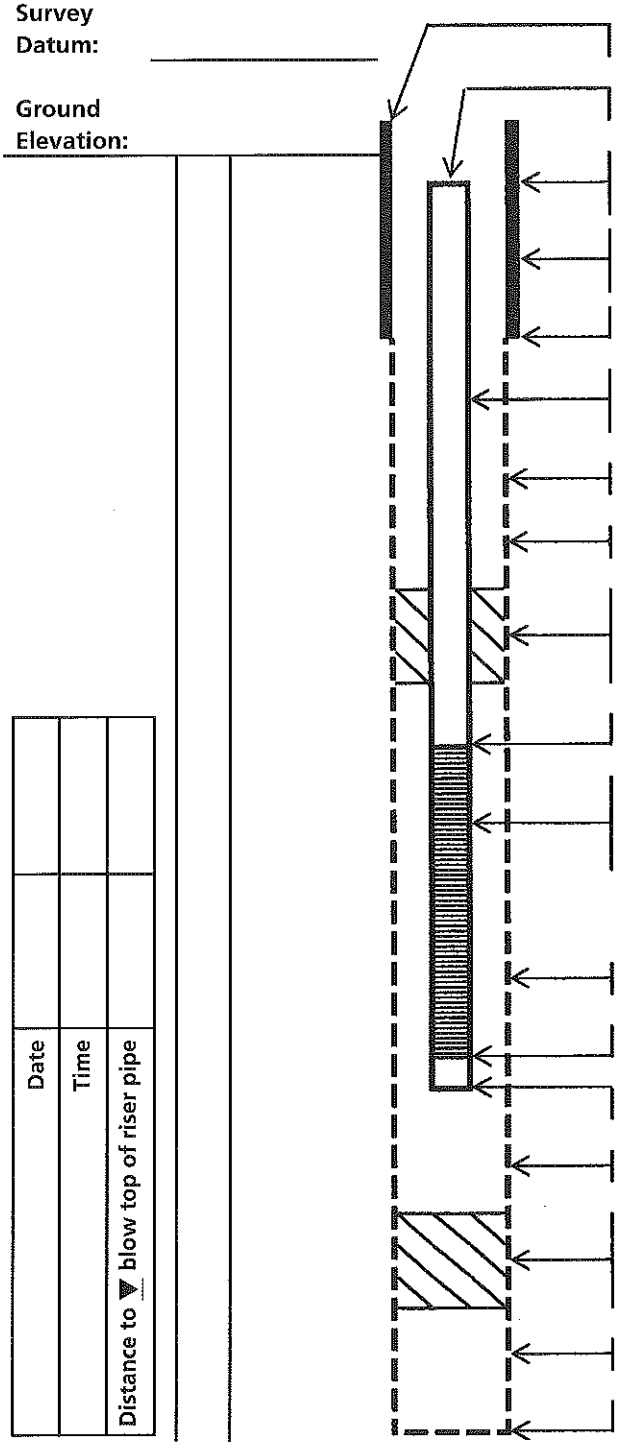
DPW-203

Project NFG Gas Storage
City/Town Town of Amherst, NY
Client National Fuel Gas
Contractor SJB Drilling
Driller Randy Steiner GEI Rep. J. Sandorf

GEI Proj. No. 09/220
Location DPW-203 S. end of East Ave.
Install Date 7-30-09

Survey Datum: _____

Ground Elevation: _____



Length of Surface Casing above Ground: 0 - flush mount
Dist. Top of Surf. Casing to Top of Riser Pipe: _____
Type and Thickness of Seal around Surface Casing: concrete pad
ID of Surface Casing: 8"
Type of Surface Casing: flush mount cover
Depth of Bottom of Surface Casing: 1.2 m
ID and OD of Riser Pipe: 3/4" ID
Type of Riser Pipe: Sch. 40 PVC
Type of Backfill around Riser Pipe: _____
Diameter of Borehole: 2 in
Depth Top of Seal: _____
Type of Seal: granular bentonite
Depth Bottom of Seal: _____
Depth Top of Screened Section: 3' bgs
Type of Screen: Prepack screen PVC
Description of Screen Openings: 0.010" slot
ID and OD of Screened Section: 3/4" ID, 1.4" OD
#0 Sand above screen
Type of Filter Material: prepack Screen
Depth Bottom of Screened Section: 13' bgs
Depth Bottom of Silt Trap: flush endcap 13' bgs
Depth Bottom of Filter Material: 13' bgs
Depth Top of Seal: ↑
Type of Seal: NA
Depth Bottom of Seal: ↓
Type of Backfill below Filter Material: Natural collapse
Bottom of Borehole: 15' bgs

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

GEI Consultants

Groundwater Well Installation Log

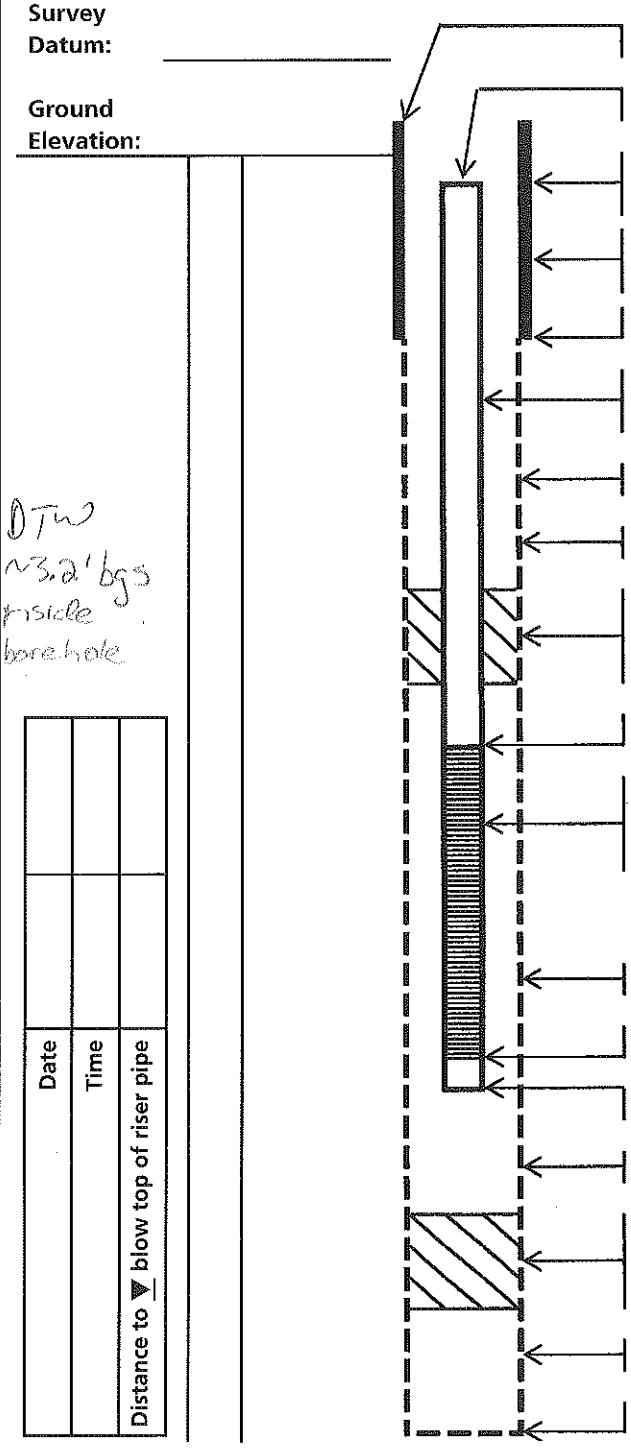
DPW -204

Project NFG Gastown
City/Town Tonawanda, NY
Client National Fuel Gas
Contractor SJB Drilling
Driller Randy Steiner GEI Rep. J. Sandorf

GEI Proj. No. 091220
Location DPW-204
Longs Ave at Hendrix road
Install Date 7-29-09

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground: 0 - Flush mount
Dist. Top of Surf. Casing to Top of Riser Pipe:
Type and Thickness of Seal around Surface Casing: concrete pad
ID of Surface Casing: flush-mount well cover 8" Diam
Type of Surface Casing:
Depth of Bottom of Surface Casing: 12 in
ID and OD of Riser Pipe: 3/4" ID
Type of Riser Pipe: Sch 40 PVC
Type of Backfill around Riser Pipe: NA
Diameter of Borehole: 2 in
Depth Top of Seal:
Type of Seal: granular bentonite
Depth Bottom of Seal: 2.0 ' bgs
Depth Top of Screened Section: 2.5 ' bgs
Type of Screen: Sch. 40 PVC prepack screen
Description of Screen Openings: 0.010" slot
ID and OD of Screened Section: 3/4" ID, 1.4" OD
also #0 sand above prepack
Type of Filter Material: prepack screen
Depth Bottom of Screened Section: 12.5 ft bgs
Depth Bottom of Silt Trap: flush endcap 12.5 ft bgs
Depth Bottom of Filter Material: 12.5 ' bgs
Depth Top of Seal:
Type of Seal: NA
Depth Bottom of Seal:
Type of Backfill below Filter Material: Natural Collapse
Bottom of Borehole: 15 ft bgs

DTW ~3.2' bgs inside borehole

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

GEI Consultants

Groundwater Well Installation Log

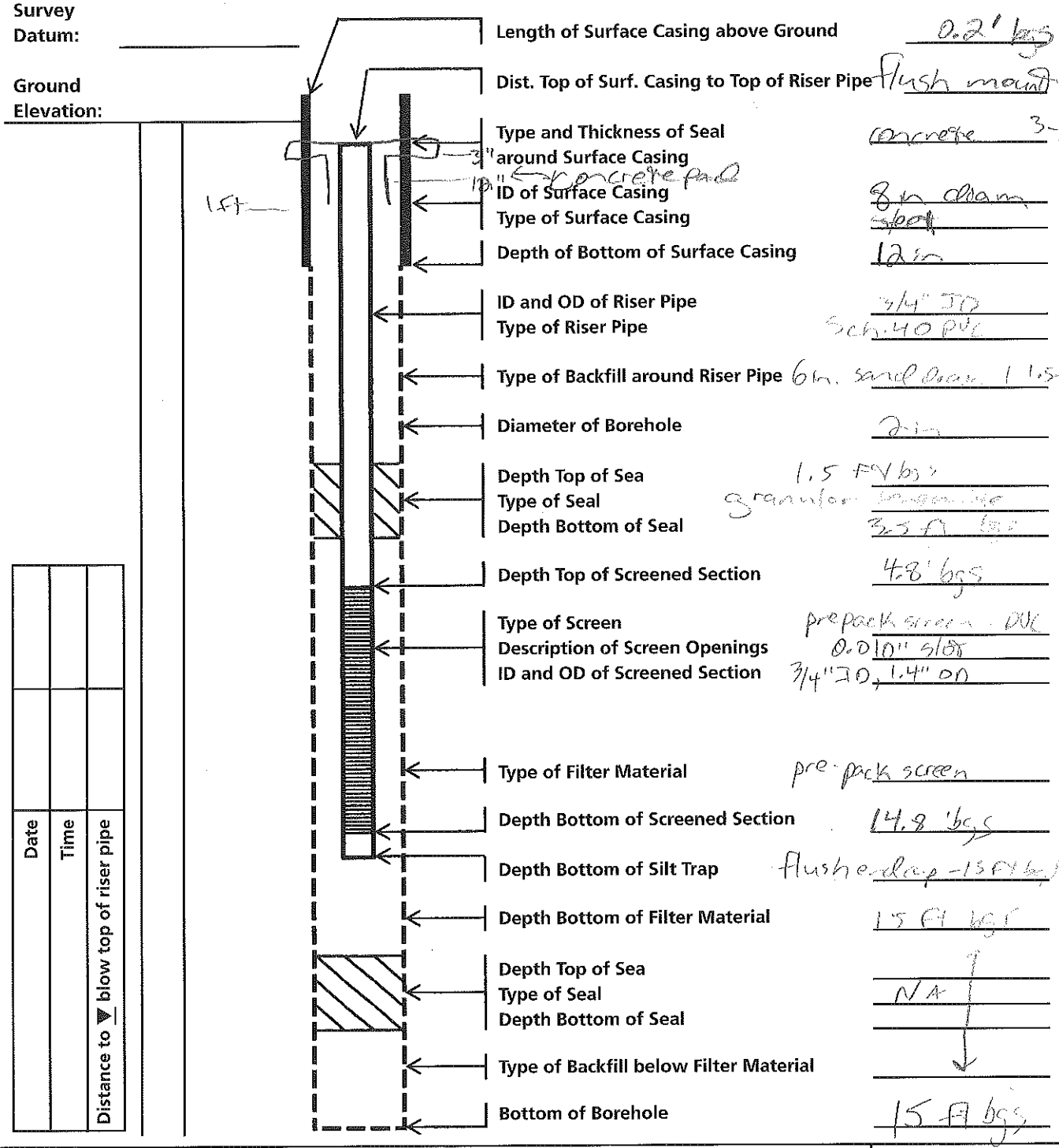
DPW-206

Project NFG Gastown
City/Town Tonawanda NY
Client National Fuel Gas
Contractor SJB Drilling
Driller Randy Steiner GEI Rep. J. Sandorf

GEI Proj. No. 091220
Location DPW-206
Fillmore Ave & Longs Ave
Install Date 2-28-09

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground 0.2' bgs
Dist. Top of Surf. Casing to Top of Riser Pipe flush mount cover
Type and Thickness of Seal around Surface Casing concrete 3-12 in
3" ← 10" ← concrete pad
ID of Surface Casing 8in diam
Type of Surface Casing steel
Depth of Bottom of Surface Casing 12in
ID and OD of Riser Pipe 3/4" ID
Type of Riser Pipe Sch. 40 PVC
Type of Backfill around Riser Pipe 6in. sand pack 1.5-4 bgs
Diameter of Borehole 2in
Depth Top of Sea 1.5 ft bgs
Type of Seal granular bentonite
Depth Bottom of Seal 3.5 ft bgs
Depth Top of Screened Section 4.8' bgs
Type of Screen prepack screen - OK
Description of Screen Openings 0.010" slot
ID and OD of Screened Section 3/4" ID, 1.4" OD
Type of Filter Material pre-pack screen
Depth Bottom of Screened Section 14.8 'bgs
Depth Bottom of Silt Trap flushed drop -15 ft bgs
Depth Bottom of Filter Material 15 ft bgs
Depth Top of Sea
Type of Seal NA
Depth Bottom of Seal
Type of Backfill below Filter Material
Bottom of Borehole 15 ft bgs

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

GEI Consultants

Groundwater Well Installation Log

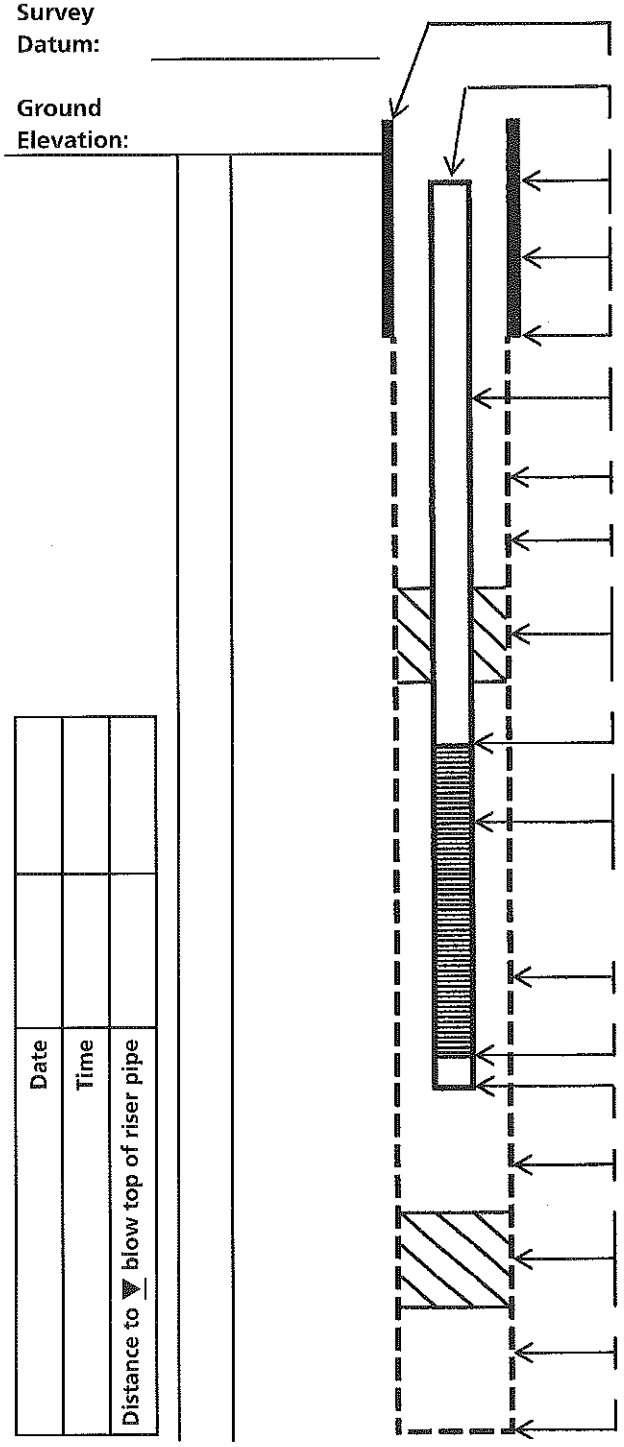
DPW-207

Project NFG Corporation
City/Town Tonawanda, NY
Client National Fuel Gas
Contractor SJB Drilling
Driller Randy Steiner GEI Rep. T. Sandoff

GEI Proj. No. 091220
Location DPW-207 middle of Longs Ave. Westside near to curb
Install Date 7-29-09

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground	0-flushmount
Dist. Top of Surf. Casing to Top of Riser Pipe	
Type and Thickness of Seal around Surface Casing	concrete pad
ID of Surface Casing	8"
Type of Surface Casing	Mon. manhole casing
Depth of Bottom of Surface Casing	12" bgs
ID and OD of Riser Pipe	3/4" ID
Type of Riser Pipe	Sch. 40 PVC
Type of Backfill around Riser Pipe	NA
Diameter of Borehole	2"
Depth Top of Seal	1' bgs
Type of Seal	granular bentonite
Depth Bottom of Seal	2' bgs
Depth Top of Screened Section	5' bgs
Type of Screen	Sch 40 PVC prepack
Description of Screen Openings	0.010" slot
ID and OD of Screened Section	3/4" ID, 1.4" OD
Type of Filter Material	#0 Sand above pre-pack prepack screen
Depth Bottom of Screened Section	15' bgs
Depth Bottom of Silt Trap	flushmount 15 ft bgs
Depth Bottom of Filter Material	15' bgs
Depth Top of Seal	
Type of Seal	NA
Depth Bottom of Seal	
Type of Backfill below Filter Material	NA
Bottom of Borehole	15' bgs

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

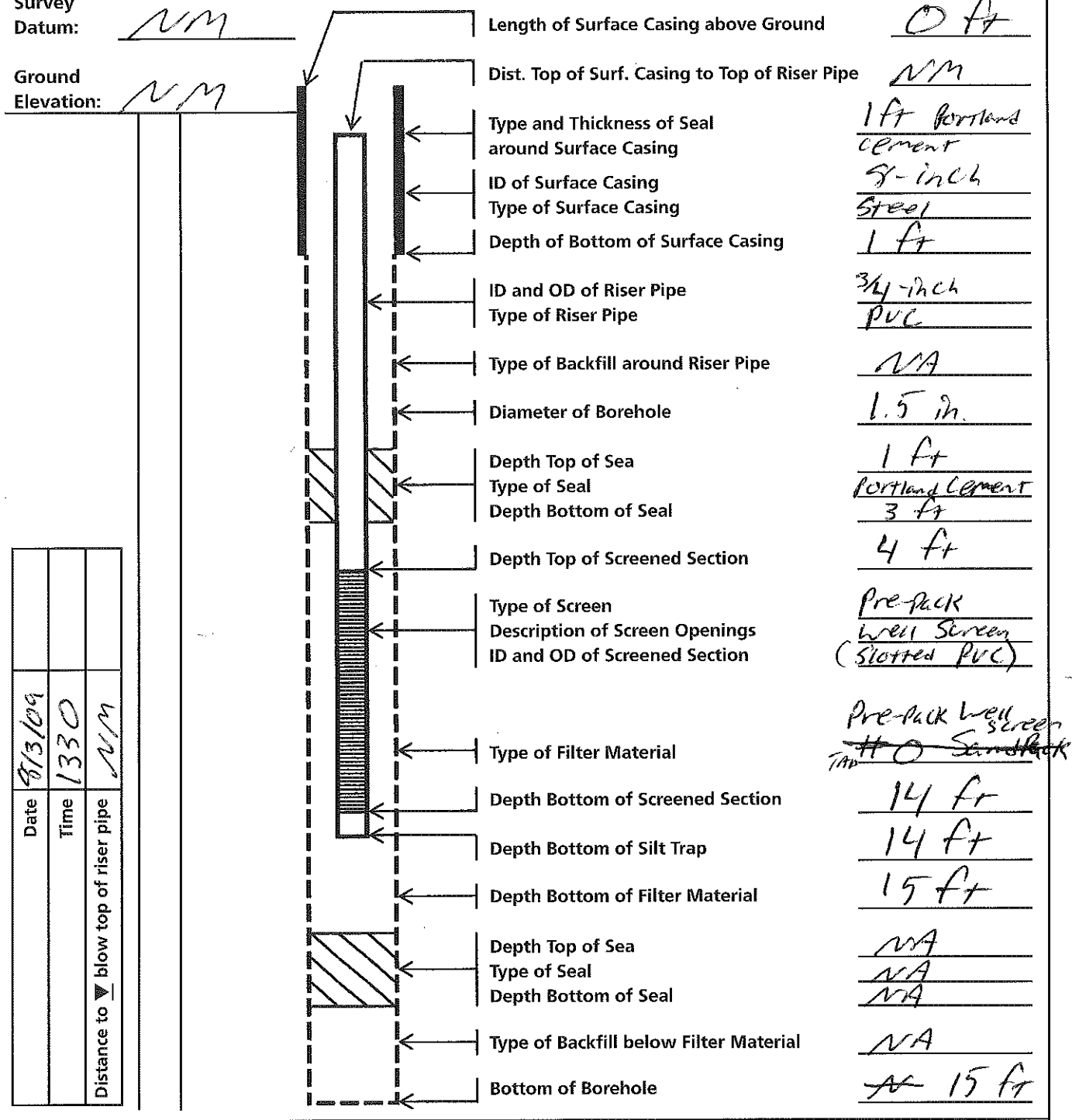
GEI Consultants

Groundwater Well Installation Log

DPW-208

Project Gastown Former MGP
City/Town Tonawanda NY
Client National Fuel Gas
Contractor STB Drilling
Driller Randy Steiner GEI Rep. T. Daigle

GEI Proj. No. 091220
Location Corner of East Ave and East Niagara St
Install Date 8/3/09



Notes:

GEI Consultants

Groundwater Well Installation Log

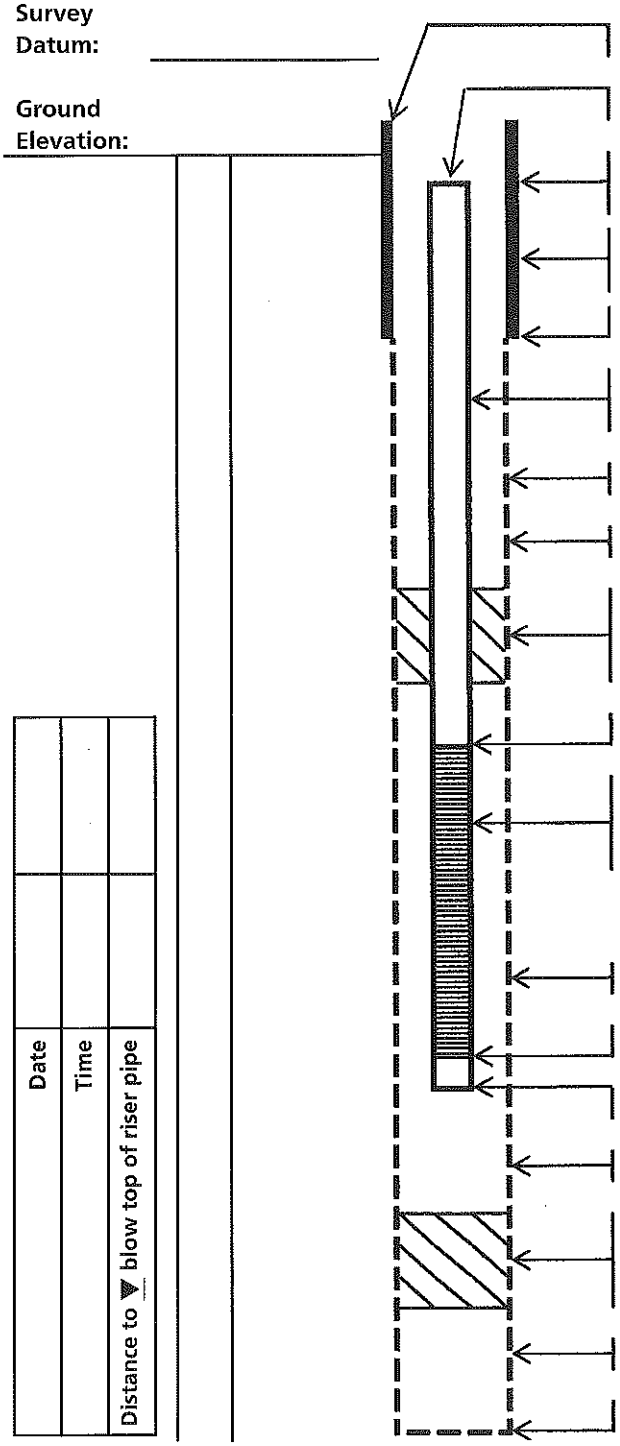
DPW-209

Project NFG Tonawanda, NY Gasholder
City/Town Tonawanda, NY
Client National Fuel Gas
Contractor SJB Drilling
Driller Randy Steiner GEI Rep. [illegible]

GEI Proj. No. 091220
Location DPW-209
Fillmore Ave in front of Tonawanda Yacht Club
Install Date 7-30-09

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground	0 - flush mount
Dist. Top of Surf. Casing to Top of Riser Pipe	
Type and Thickness of Seal around Surface Casing	concrete pad
ID of Surface Casing	8" (6" sand above bentonite)
Type of Surface Casing	flush mount cover
Depth of Bottom of Surface Casing	12'
ID and OD of Riser Pipe	3/4" ID
Type of Riser Pipe	Sch. 40 PVC
Type of Backfill around Riser Pipe	NA
Diameter of Borehole	2"
Depth Top of Seal	1' bgs
Type of Seal	granular bentonite
Depth Bottom of Seal	3' bgs
Depth Top of Screened Section	5' bgs
Type of Screen	prepack screen PVC
Description of Screen Openings	0.010" slot
ID and OD of Screened Section	3/4" ID, 1.4" OD
	#0 Sand above screen
Type of Filter Material	prepack screen
Depth Bottom of Screened Section	15' bgs
Depth Bottom of Silt Trap	flushmount 15' bgs
Depth Bottom of Filter Material	15' bgs
Depth Top of Seal	
Type of Seal	
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	
Bottom of Borehole	15' bgs

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

GEI Consultants

Groundwater Well Installation Log

DPW-210

Project NFG Gastown
City/Town Tonawanda, NY
Client National Fuel Gas
Contractor SJB Drilling
Driller Randy Steiner GEI Rep. J. Sandolf

GEI Proj. No. 091220
Location DPW-210
intersection of Long Ave & E. Niagara St (Sub Area)
Install Date 7-29-09

Survey Datum: _____

Ground Elevation: _____

Length of Surface Casing above Ground	0 - flush mount
Dist. Top of Surf. Casing to Top of Riser Pipe	_____
Type and Thickness of Seal around Surface Casing	concrete pad
ID of Surface Casing	8"
Type of Surface Casing	flush mount cover
Depth of Bottom of Surface Casing	12"
ID and OD of Riser Pipe	3/4" ID
Type of Riser Pipe	Sch. 40 PVC
Type of Backfill around Riser Pipe	NA
Diameter of Borehole	2" ID
Depth Top of Seal	1' bgs
Type of Seal	granular bentonite
Depth Bottom of Seal	3' bgs
Depth Top of Screened Section	5' bgs
Type of Screen	Sch 40 PVC pre-pack
Description of Screen Openings	0.010" slot screen
ID and OD of Screened Section	3/4" ID, 1.4" OD
	#0 Sand above screen
Type of Filter Material	pre-pack screen
Depth Bottom of Screened Section	15' bgs
Depth Bottom of Silt Trap	flush endcap 15' bgs
Depth Bottom of Filter Material	15' bgs
Depth Top of Seal	
Type of Seal	
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	
Bottom of Borehole	15' bgs

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

GEI Consultants

Groundwater Well Installation Log

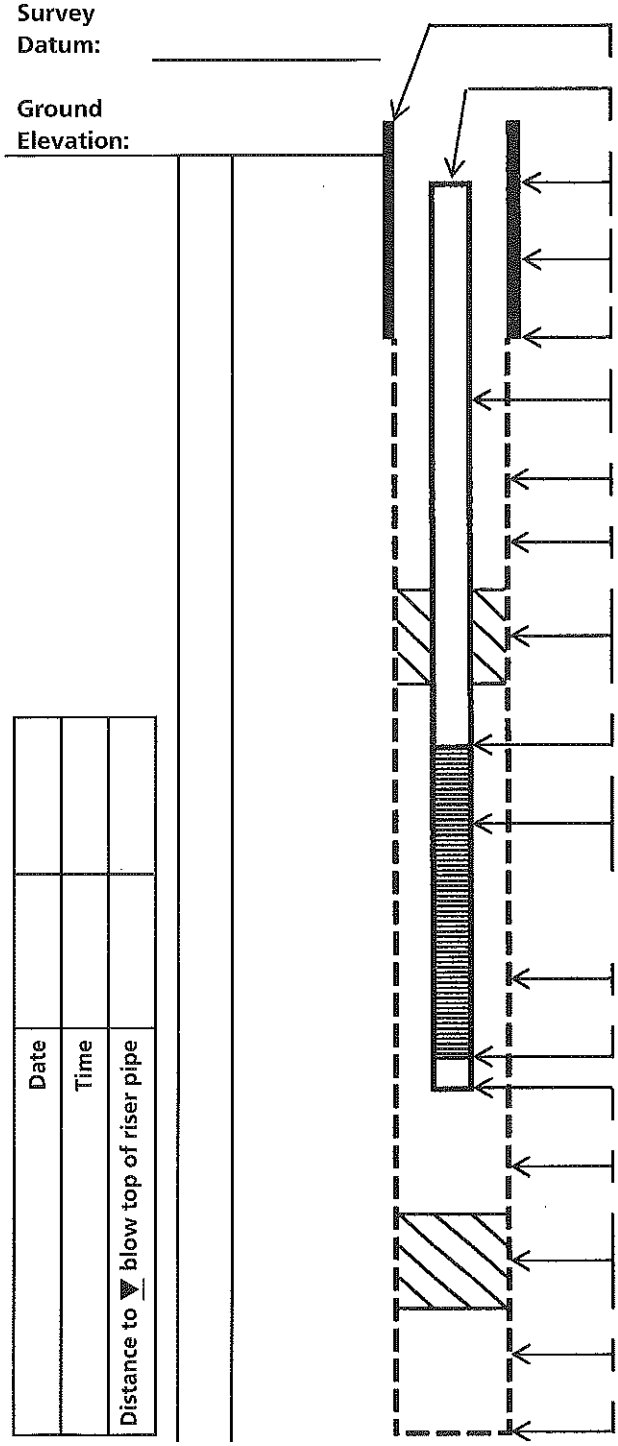
DPW-211

Project NFG Gastown
City/Town Tonawanda, NY
Client National Fuel Gas
Contractor SJB Drilling
Driller Randy Steiner GEI Rep. J. Sandorf

GEI Proj. No. 091220
Location DPW-211
E. Niagara St & Fillmore Ave.
Install Date 7-28-09

Survey Datum: _____

Ground Elevation: _____



Length of Surface Casing above Ground _____

Dist. Top of Surf. Casing to Top of Riser Pipe _____

Type and Thickness of Seal around Surface Casing _____

ID of Surface Casing _____
Type of Surface Casing _____

Depth of Bottom of Surface Casing _____

ID and OD of Riser Pipe 3/4" ID
Type of Riser Pipe Sch. 40 PVC

Type of Backfill around Riser Pipe 6 in Sandcream 1-2.5 bgs

Diameter of Borehole 2 in

Depth Top of Seal 1.5 ft bgs
Type of Seal granular bentonite
Depth Bottom of Seal 3.5 ft bgs

Depth Top of Screened Section 5 ft bgs

Type of Screen PVC pre-pack
Description of Screen Openings 0.010" slot
ID and OD of Screened Section 1.4" OD, 3/4" ID

Type of Filter Material prepack screen

Depth Bottom of Screened Section 15 ft bgs

Depth Bottom of Silt Trap flush endcap - 15' bgs

Depth Bottom of Filter Material 15 ft bgs

Depth Top of Seal _____
Type of Seal _____
Depth Bottom of Seal _____

Type of Backfill below Filter Material _____

Bottom of Borehole 15 ft bgs

Date	Time	Distance to ▼ blow top of riser pipe

Notes:

GEI Consultants

Groundwater Well Installation Log

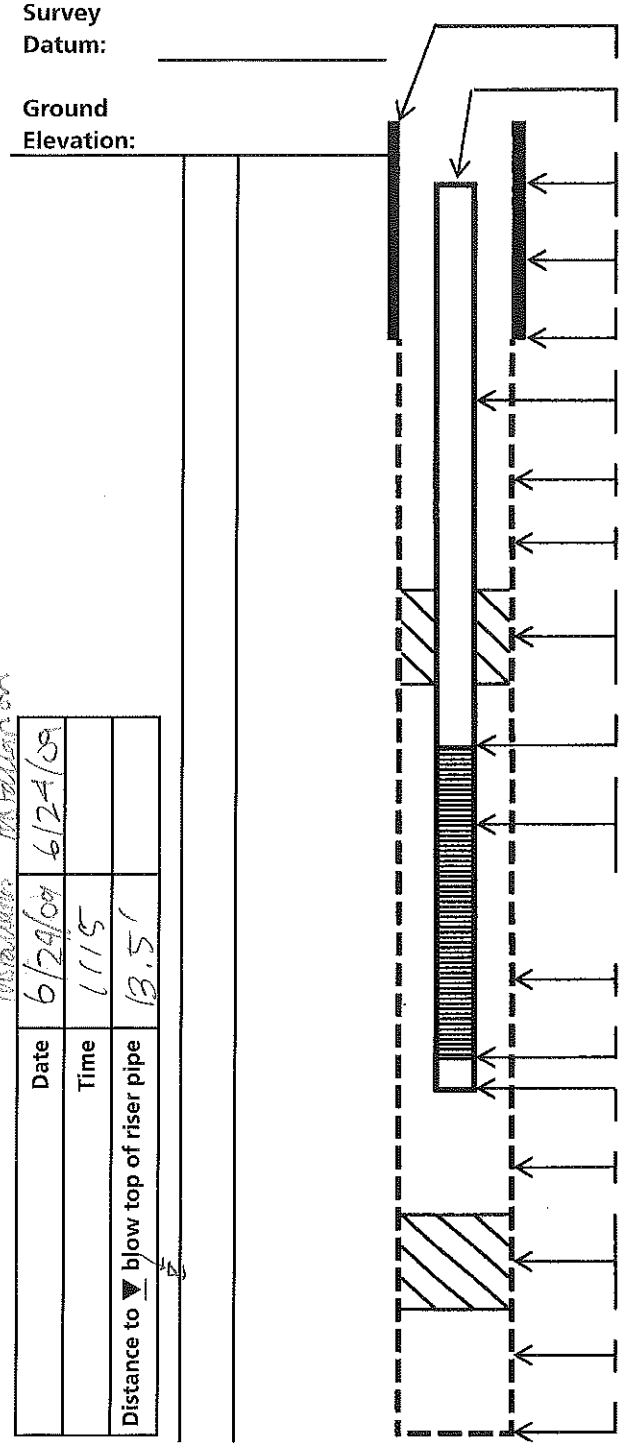
GT-MW-74

Project: Gastown Former MGP
City/Town: Tonawanda NY
Client: National Fuel Gas
Contractor: STB
Driller: Tony
GEI Rep.: gvm + tad

GEI Proj. No.: 091220
Location: GT-MW-74
East Ave. between poles NJT14 + NJT24.
Install Date: 6/24/09

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground	0
Dist. Top of Surf. Casing to Top of Riser Pipe	
Type and Thickness of Seal around Surface Casing	Quikcrete
ID of Surface Casing	6"
Type of Surface Casing	PVC.
Depth of Bottom of Surface Casing	1 ft
ID and OD of Riser Pipe	2-inch PVC
Type of Riser Pipe	
Type of Backfill around Riser Pipe	bentonite CHIPS
Diameter of Borehole	4.25 in
Depth Top of Seal	1 ft.
Type of Seal	Bentonite Chips
Depth Bottom of Seal	2 ft
Depth Top of Screened Section	3 ft
Type of Screen	2-inch
Description of Screen Openings	0.010 Slot
ID and OD of Screened Section	
Type of Filter Material	#0 Sand
Depth Bottom of Screened Section	13 ft
Depth Bottom of Silt Trap	14 ft
Depth Bottom of Filter Material	n/a
Depth Top of Sea	n/a
Type of Seal	n/a
Depth Bottom of Seal	n/a
Type of Backfill below Filter Material	n/a
Bottom of Borehole	14'

during well installation on roof

Date	Time	Distance to ▼ blow top of riser pipe
6/24/09	1115	13.5'
6/24/09		

Notes:

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MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.8 | Job Name Gastown Former MGP

Job Number 091220 | By gvm | Date 8.6.09

Location Tonawanda, NY | Measurement Datum

Well Number DPW-201

Pre-Development Information

Time (start) 1420

Water Level 4.45' | Total Depth of Well 14.74'

One Purge Vol 0.339 gal | Three Well Volume 1.117 gal (ten: 3.39 gal)

Water Characteristics

Color no odor | X Clear | Cloudy

Odor X None | Weak | Moderate | Strong

Any films or immiscible material None

Well ran dry - allow to recharge, lower pumping rate

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	1420	500	—	clear, no odor, no odor
0.5	1425	500	—	clear,
1.0	1430	300	—	clear.
1.5	~~1440~~	1505 300	—	clear
~~2.0~~	~~1445~~	~~300~~	—	
~~2.5~~	~~1450~~	~~300~~	—	

Total Volume Removed (gal) 1.5 gal | Turbidity (NTU) —

Post Development Information | Time (Finished) 1510

Water Level 14.61 | Total Depth of Well

Approximate Volume Removed (gal)

Water Characteristics

Color clear | X Clear | Cloudy

Odor X None | Weak | Moderate | Strong

Any films or immiscible material None

1 2 3 3a 3b 1107

Comments:

developed using peristaltic pump + 1/4" OD tubing.

~0.05'/5min recharge VERY SLOW

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MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0 | Job Name Grantown Former MGP

Job Number 091220 | By gmm | Date 8.6.09

Location Tonawanda, NY | Measurement Datum

Well Number DPW-202

Pre-Development Information | Time (start) 1315

Water Level ~~5~~.34 | Total Depth of Well 14.71

One Purge Vol 0.338 | Three Well Volume 1.015 10= 3.38

Water Characteristics

Color gray | ___ Clear | X Cloudy

Odor ___ None | X Weak | ___ Moderate | ___ Strong | NAPL-like

Any films or immiscible material None

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	1315	500	—	cloudy gray, faint NAPL-like odor
0.5	1320	500	—	light brown, cloudy.
1.0	1325	500	—	cloudy
1.5	1330	500	—	clear
~~1.75~~	1335	500	—	clear.
2.0	1340	500	—	

standing

Total Volume Removed (gal) ___ | Turbidity (NTU) ___

Post Development Information | Time (Finished) ___

Water Level ___ | Total Depth of Well ___

Approximate Volume Removed (gal) ___

Water Characteristics

Color ___ | ___ Clear | ___ Cloudy

Odor ___ None | ___ Weak | ___ Moderate | ___ Strong

Any films or immiscible material None

Comments:

developed using peristaltic pump + 1/4" OD tubing.

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0 | Job Name Gastown Former MGP

Job Number 091220 | By gvm | Date 8/6/09

Location Tonawanda, NY | Measurement Datum

Well Number DPW-203

Pre-Development Information

Time (start) 1000

Water Level 6.51 | Total Depth of Well 12.74

One Purge Vol 0.293 | Three Well Volume 0.879 10 = 2.93 gal.

Water Characteristics

Color light brown | ___ Clear | X Cloudy silty

Odor X None | ___ Weak | ___ Moderate | ___ Strong

Any films or immiscible material (None)

	Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	0	1000	500	—	V. cloudy, light brown, silty
2	0.5	1005	500	—	cloudy, lt. brown.
4	1.0	1010	500	—	"
6	1.5	1015	500	—	"
8	2.0	1020	600	—	"
10	2.5	1025	600	—	cloudy, no odor
12	3.0	1030	600	—	clear
	3.5	1035	600	—	clear

Total Volume Removed (gal) 3.5 | Turbidity (NTU) —

Post Development Information

Time (Finished) 1035

Water Level 5.66' | Total Depth of Well 12.78'

Approximate Volume Removed (gal)

Water Characteristics

Color clear | X Clear | ___ Cloudy

Odor X None | ___ Weak | ___ Moderate | ___ Strong

Any films or immiscible material (None)

Comments:

developed using peristaltic pump + 1/4" OD tubing.

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0
Job Number 091220
Location Tonawanda, NY
Well Number DPW-204

Job Name Eastown Former MGP
By gvm Date 8.4.09
Measurement Datum

Pre-Development Information

Water Level 2.91'
One Purge Vol 0.286

Time (start) 1620
Total Depth of Well 12.44'
Three Well Volume 0.858 (rem 2.86)

Water Characteristics

Color light brown
Odor x None ___ Weak
Any films or immiscible material ___ None

___ Clear x Cloudy
___ Moderate ___ Strong

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0 *	1620	500	-	V. cloudy, lt. brown
0.5	1630	300	-	Light brown, cloudy
1.0 *	1640	500	-	cloudy
1.5	1650	300	-	clear
2.0	1700	500	-	clear.

* well ran dry, decreased flowrate.

Total Volume Removed (gal) 2.0
Turbidity (NTU)

Post Development Information

Time (Finished) 1700
Water Level 11.95'
Total Depth of Well 12.44'
Approximate Volume Removed (gal) 2.0 gal

Water Characteristics

Color clear
Odor x None ___ Weak
Any films or immiscible material None

x Clear ___ Cloudy
___ Moderate ___ Strong

Comments:

developed using peristaltic pump w/ 1/4" OD tubing.
ran dry several (3/4) times - stopped to recharge.

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0 | Job Name Eastown Former MGP

Job Number 091220 | By gvm | Date 8.5.09

Location Tonawanda NY | Measurement Datum

Well Number DPW-206

Pre-Development Information | Time (start) 1300

Water Level 8.35' | Total Depth of Well 15'

One Purge Vol 0.023 x 15' = 0.345 | Three Well Volume 1.035 ten = 3.45

Water Characteristics

Color light brown | Clear ___ | Cloudy X

Odor X None ___ | Weak ___ | Moderate ___ | Strong ___

Any films or immiscible material None

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	1315	500	—	lt brown, cloudy
1	1345	"	—	lt brown, cloudy
1.5	~~1445~~ 1415	"	—	lt brown, clear
2.5	1445	"	—	clear.

Total Volume Removed (gal) 2.5 gal | Turbidity (NTU)

Post Development Information | Time (Finished) 1445.

Water Level 8.05' | Total Depth of Well 15'

Approximate Volume Removed (gal) 2.5 gal.

Water Characteristics

Color clear | X Clear ___ | Cloudy ___

Odor X None ___ | Weak ___ | Moderate ___ | Strong ___

Any films or immiscible material None

.23 + .115 = .345

Comments:

quick to recharge, end water level similar to start.

developed using peristaltic pump + 1/4" OD tubing.

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0 | Job Name Eastman Former MGP

Job Number 091220 | By gvm | Date 8.6.09

Location Tonawanda NY | Measurement Datum

Well Number DPW-207

Pre-Development Information

Time (start) 0900

Water Level 5.68' | Total Depth of Well 14.73

One Purge Vol 0.023 × 14.73 = 0.3389 | Three Well Volume 1.02 Ten = 3.4 gal.

Water Characteristics

Color light brown | ___ Clear | X Cloudy

Odor X None | ___ Weak | ___ Moderate | ___ Strong

Any films or immiscible material (None)

	Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	0	0910	500	—	light brown, cloudy
2	0.5	0920	↓	—	cloudy, no color
4	1.0	0930	↓	—	clear, no color
6	1.5	0940	↓	—	clear.
8	2.0	0950	500	—	clear

Total Volume Removed (gal) 2.5 | Turbidity (NTU) —

Post Development Information

Time (Finished) 0955

Water Level 6.41' | Total Depth of Well 14.73

Approximate Volume Removed (gal)

Water Characteristics

Color clear | X Clear | ___ Cloudy

Odor X None | ___ Weak | ___ Moderate | ___ Strong

Any films or immiscible material (None)

Comments:

developed using peristaltic pump + 1/4" OD tubing.
good recharge.

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0 | Job Name Gastown Former MGP

Job Number 091220 | By gvm | Date 8/6/09

Location Tonawanda, NY | Measurement Datum

Well Number DPW - 208

Pre-Development Information | Time (start) 1050

Water Level 6.50 | Total Depth of Well ~~13.51~~ 13.51

One Purge Vol 0.023 × 13.51 = 0.31 | Three Well Volume 0.932 10 = 3.11 gal

Water Characteristics

Color light gray | ____ Clear | X Cloudy

Odor X None | ____ Weak | ____ Moderate | ____ Strong

Any films or immiscible material (None)

well ran dry, stop allow to recharge & decrease pumping rate.

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
~~1050~~ 0	1050	500	–	light gray, cloudy
0.5	1055	500	–	cloudy, no color.
1.0	1105	300	–	clear
1.5	1125	200	–	clear
2.0	1140	200	–	clear
~~2.5~~			–	

Total Volume Removed (gal) 2.0 gal | Turbidity (NTU) –

Post Development Information | Time (Finished) 1140

Water Level 10.11 | Total Depth of Well 13.60

Approximate Volume Removed (gal) 2.0 gal.

Water Characteristics

Color clear | X Clear | ____ Cloudy

Odor X None | ____ Weak | ____ Moderate | ____ Strong

Any films or immiscible material (None)

Comments:

developed using peristaltic pump w/ 1/4" OD tubing

very slow recharge, ran dry several (4/5) times.

water level climbed ~0.05 / min

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0
Job Number 091220
Location Tonawanda NY
Well Number DPW-209

Job Name Bastown Former MGP
By gvm Date 8/6/2009
Measurement Datum

Pre-Development Information

Water Level 6.94
One Purge Vol 0.339 gal.

Time (start) 1230
Total Depth of Well 14.76'
Three Well Volume 1.018 ten = 3.39gal.

Water Characteristics

Color light brown/gray
Odor X None ___ Weak ___ Moderate ___ Strong
Any films or immiscible material (None)

___ Clear X Cloudy

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	1230	500	—	light brown / gray, cloudy
0.5	1235	500	—	light brown, cloudy
1.0	1240	500	—	light brown, clear
1.5	1245	500	—	gray, clear
2.0	1250	500	—	clear
2.5	1255	500	—	clear

Total Volume Removed (gal) 2.8 gal
Turbidity (NTU) —

Post Development Information

Time (Finished) 1300
Water Level 6.94
Total Depth of Well 14.76'
Approximate Volume Removed (gal)

Water Characteristics

Color Clear
Odor X None ___ Weak ___ Moderate ___ Strong
Any films or immiscible material (None)

X Clear ___ Cloudy

Comments:

developed using peristaltic pump + 1/4" OD tubing.
no ~~drawdown~~ drawdown

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0
Job Number 091220
Location Tonawanda NY
Well Number DPW-210

Job Name Eaptown Former MGP
By gvm Date 8/5/09
Measurement Datum

Pre-Development Information

Water Level 5.61'
One Purge Vol 0.325

Time (start) 1710
Total Depth of Well 14.11'
Three Well Volume 0.974 Len: 3.25

Water Characteristics

Color light brown
Odor X None ___ Weak ___ Moderate ___ Strong
Any films or immiscible material None

Clear ___ Cloudy X

Vol.	Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	0	1510	500	—	light brown, cloudy
2	0.5	1515	300	—	cloudy
4	1.0	1520	500	—	cloudy
6	1.5	1530	300	—	clear
8	2.0	1535	300	—	clear

* turn pump off, allow to recharge

Total Volume Removed (gal) 2 gal
Turbidity (NTU)

Post Development Information

Time (Finished) 1540
Water Level 12.75'
Total Depth of Well 14.71
Approximate Volume Removed (gal) 2 gal

Water Characteristics

Color
Odor ___ None ___ Weak ___ Moderate ___ Strong
Any films or immiscible material None

Clear ___ Cloudy ___

Comments:

211 210 206
209 208 4
207 205 3 2 1

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MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0 | Job Name Bartown Former MGP

Job Number 091220 | By gvm | Date 8.5.09

Location Tonawanda NY | Measurement Datum

Well Number DPW-211

Pre-Development Information

Time (start) 1500

Water Level 6.19 | Total Depth of Well 14.80'

One Purge Vol 0.023 x 15' = ~0.3 gal. | Three Well Volume 0.9 gal 10 = 3.0 gal

Water Characteristics

Color light brown | ___ Clear | X Cloudy

Odor X None | ___ Weak | ___ Moderate | ___ Strong

Any films or immiscible material None

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0	1525	400	—	lt brown, cloudy no odor
0.5	1530	"	—	lt gray, cloudy
1.5	1535	"	—	no color, cloudy
2.0	1545	"	—	~~no color, cloudy~~ clear
~~3.0~~ 3.0	1555	"	—	~~cloudy~~ clear
~~2.5~~	~~1615~~	~~"~~	~~—~~	clear
3.0	~~1625~~	~~400~~	—	clear

Total Volume Removed (gal) 3 gal | Turbidity (NTU) —

Post Development Information | Time (Finished) 1600

Water Level ___ | Total Depth of Well ___

Approximate Volume Removed (gal) 3 gal

Water Characteristics

Color clear | X Clear | ___ Cloudy

Odor X None | ___ Weak | ___ Moderate | ___ Strong

Any films or immiscible material None

Comments:

developed

GEI Consultants

MONITORING WELL DEVELOPMENT RECORD

PID Reading 0.0ppm
Job Number 091220
Location Tonawanda, NY
Well Number GT-MW-74

Job Name Gastown Former MGP
By T. Daigle Date 8/6/09
Measurement Datum Top of PVC

Pre-Development Information

Water Level 4.43 ft
One Purge Vol 1.5

Time (start) 1412
Total Depth of Well 13.40
Three Well Volume 4.5

Water Characteristics

Color brown
Odor ✓ None ___ Weak ___ Moderate ___ Strong
Any films or immiscible material (None)

___ Clear ✓ Slightly Cloudy ___ Cloudy

Volume (gal)	Time	Flow Rate (ml/min)	Turbidity (NTU)	Visual Description
0.1	1412			Slightly Cloudy, brown
4.0	1414			Slightly Cloudy, brown
5.0	1419			Clear
6.0	1424			Slightly cloudy
7.0	1429			Clear

Total Volume Removed (gal) 7.0
Turbidity (NTU) NM

Post Development Information

Time (Finished) 1429
Water Level ~~At~~ 11.61
Total Depth of Well 13.42
Approximate Volume Removed (gal) 7.0 gal

Water Characteristics

Color ___
Odor ✓ None ___ Weak ___ Moderate ___ Strong
Any films or immiscible material (None)

✓ Clear ___ Cloudy

Comments: Well purged dry at 4.0 gal. Let recharge for 5 min and purged 1 gal before it went dry again, water was less cloudy, let recharge 5 more minutes, ~~and~~ purged, and purged 1 gal. of very slightly cloudy water, let recharge 5 more min and purged 1 gal of clear water.

Appendix C

Sampling Checklists and Field Sampling Forms

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: Gymnasium

Sample ID: GT-IA-Gym

Date: 8/10/09
Sampling personnel: T. Daigle
Summa Canister ID: 4024 (Can 610)
Flow Regulator ID: 0049
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1356
Sampling Finish Time: 1332 (8-11-09)

During Sampling	
Time	Vacuum
1515	28
8-11-09 0840	10
9-11-09 1120	7

Did Summa canister go to ambient pressure? Yes / No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): Flow Controller: 30 in. Hg
Pressure gauge reading (After sample collected): Flow Controller: 5 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	91.6	88
Barometric Pressure (in. Hg):	29.11	29.58
Prevailing Wind Direction:	East	East
General Weather Conditions:	Partly Cloudy, humid	Partly Cloudy, humid

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	70
Barometric Pressure (in. Hg):	29.11	29.58

PID readings at sample location (ppb): 198

Photographs taken before sampling? (Yes) / No **If Yes, what time:** 1405 **Taken by:** TAD
Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / (No) **If yes, how long?**
Windows open? Yes / ~~No~~ **Ventilation fans?** Yes / ~~No~~
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / (No)
Were any of the residents home during sampling? (Yes) / ~~No~~ **If yes, provide detail:** _____
Did any of the occupants NOT follow instruction for residents? Yes / (No) **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 5' 0"

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:

Sample ID: GT-IA-CAF

Date: 8/10/09

Sampling personnel: T. Dorigue (Can 1671)

Summa Canister ID: 7659

Flow Regulator ID: 0015

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1402

Sampling Finish Time: 1458

During Sampling		
	Time	Vacuum
	1516	29
8-11-09	0840	15
8-11-09	1120	12

Did Summa canister go to ambient pressure? Yes / No

Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): Flow Controller: 30 in. Hg

Pressure gauge reading (After sample collected): Flow Controller: 9.5 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	92	88
Barometric Pressure (in. Hg):	29.11	29.58
Prevailing Wind Direction:	East	East
General Weather Conditions:	Partly Cloudy, humid	Partly Cloudy, humid

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	70
Barometric Pressure (in. Hg):	29.11	

PID readings at sample location (ppb): 212

Photographs taken before sampling? (Yes) / No **If Yes, what time:** 1408 **Taken by:** TAD

Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / (No) **If yes, how long?**

Windows open? Yes / (No) **Ventilation fans?** Yes / (No)

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / (No)

Were any of the residents home during sampling? (Yes) / No **If yes, provide detail:** _____

Did any of the occupants NOT follow instruction for residents? Yes / (No) **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 4'6".

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:

Sample ID: GT-IA ~~EEA~~ ELS

Date: 8/10/09
Sampling personnel: T. Daigle
Summa Canister ID: Can 970 (No Serial #)
Flow Regulator ID: 0441
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1404
Sampling Finish Time: 1120 8-11-09

During Sampling	
Time	Vacuum
1516	26
8-11-09 0840	6

Did Summa canister go to ambient pressure? Yes / No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): Flow Controller: 27 in. Hg
Pressure gauge reading (After sample collected): Flow Controller: 2 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	92	88
Barometric Pressure (in. Hg):	29.11	
Prevailing Wind Direction:	East	East
General Weather Conditions:	Partly Cloudy, humid	Partly Cloudy, humid

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	70
Barometric Pressure (in. Hg):	29.11	

PID readings at sample location (ppb): 209

Photographs taken before sampling? (Yes) / No **If Yes, what time:** 1411 **Taken by:** TMD
Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / (No) **If yes, how long?**
Windows open? Yes / (No) **Ventilation fans?** Yes / (No)
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / (No)
Were any of the residents home during sampling? (Yes) / No **If yes, provide detail:** _____
Did any of the occupants NOT follow instruction for residents? Yes / (No) **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 4' 5".

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:

Sample ID: GT-IA-XX

Date: ~~T. Daigle~~ 8/10/09

Sampling personnel: T. Daigle

Summa Canister ID: 4011 (can 644)

Flow Regulator ID: 0444

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: ~~13~~ 1200 (1356)

Sampling Finish Time: 0923 (1119) 8-11-09

on Chain ↗

During Sampling	
Time	Vacuum
1515	26
8-11-09 0840	5

Did Summa canister go to ambient pressure? Yes / No

Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): Flow Controller: 28 in. Hg

Pressure gauge reading (After sample collected): Flow Controller: 0 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	96	88
Barometric Pressure (in. Hg):	29.11	
Prevailing Wind Direction:	East	East
General Weather Conditions:	Partly Cloudy	Partly Cloudy, humid

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	70
Barometric Pressure (in. Hg):	29.11	

PID readings at sample location (ppb): 198

Photographs taken before sampling? (Yes) / No **If Yes, what time:** 1405 **Taken by:** TAD

Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / (No) **If yes, how long?**

Windows open? Yes / (No) **Ventilation fans?** Yes / (No)

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / (No)

Were any of the residents home during sampling? (Yes) / No **If yes, provide detail:** _____

Did any of the occupants NOT follow instruction for residents? Yes / (No) **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 5'0"

Duplicate of gymnasium sample

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:

Sample ID: GT-OA-NW

Date: 8/10/09

Sampling personnel: T. Daigle

Summa Canister ID: 7573 (Can 1579)

Flow Regulator ID: 0075

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1430

Sampling Finish Time: 0803 (8-11-09)

During Sampling	
Time	Vacuum
1530	28.5
8-11-09 0803	0

Did Summa canister go to ambient pressure? Yes / No

Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): Flow Controller: 29.5 in. Hg

Pressure gauge reading (After sample collected): Flow Controller: 0 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	91	88
Barometric Pressure (in. Hg):	29.11	
Prevailing Wind Direction:	East	East
General Weather Conditions:	Partly Cloudy, Humid	Partly Cloudy, humid

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	91	88
Barometric Pressure (in. Hg):	29.11	

PID readings at sample location (ppb): 0

Photographs taken before sampling? (Yes) / No **If Yes, what time:** ~~3:19~~ 1519 **Taken by:** TMD

Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / No **If yes, how long?**

Windows open? Yes / No **Ventilation fans?** Yes / No

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / ~~No~~ NA

Were any of the residents home during sampling? Yes / No **If yes, provide detail:** _____

Did any of the occupants NOT follow instruction for residents? Yes / No **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 5'2".

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:

Sample ID: GT-OA-SE

Date: 8/10/09
Sampling personnel: T. Daigle
Summa Canister ID: # 2848 (can 898)
Flow Regulator ID: 0071
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1436
Sampling Finish Time: 1144 8-11-09

During Sampling	
Time	Vacuum
8-11-09 0803	9

Did Summa canister go to ambient pressure? Yes / No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): Flow Controller: 30 in. Hg
Pressure gauge reading (After sample collected): Flow Controller: 4 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	91.6	88
Barometric Pressure (in. Hg):	29.11	
Prevailing Wind Direction:	East	East
General Weather Conditions:	Partly Cloudy, humid	Partly Cloudy, humid

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	91.6	88
Barometric Pressure (in. Hg):	29.11	

PID readings at sample location (ppb): 0

Photographs taken before sampling? (Yes) / No **If Yes, what time:** _____ **Taken by:** TAD
Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / (No) **If yes, how long?** NA
Windows open? Yes / No **Ventilation fans?** Yes / No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / No
Were any of the residents home during sampling? Yes / No **If yes, provide detail:** _____
Did any of the occupants NOT follow instruction for residents? Yes / No **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 3 ft. 0 in

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: SE Property Corner

Sample ID: GT-DPV-1

Date: 8-11-09
Sampling personnel: T. Daigle
Summa Canister ID: Can 455
Flow Regulator ID: 0307
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0909
Sampling Finish Time: 1016

During Sampling	
Time	Vacuum
0945	18
1008	6.5

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 30 in/hr
Pressure gauge reading (After sample collected): Flow Controller: 3 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	75	78
Barometric Pressure:	29.58	29.60
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** 1017 **Taken by:** TMD
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: N.M
Ambient air concentration: 0
Soil gas concentration prior to sampling: NM
Length of time for air purging prior to sampling: 5 min

Time	He concentration (%)
0909	35.9
0945	24.3
1008	18.5
1016	17.1

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Middle East Parking

Sample ID: GT-DPV-2

Date: 8-11-09
Sampling personnel: T. Daigle
Summa Canister ID: 395
Flow Regulator ID: C077
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0919
Sampling Finish Time: 1145

During Sampling	
Time	Vacuum
1011	-30+
1043	30+
1145	30+

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 30+ in/hr
Pressure gauge reading (After sample collected): Flow Controller: 30+ in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	75	81
Barometric Pressure:	29.58	29.60
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: NM
Ambient air concentration: 0 ppb
Soil gas concentration prior to sampling: NM
Length of time for air purging prior to sampling: 5 min.

NO air flow Through point
Could not purge any air

Time	He Concentration %
0919	30.1
~~0940~~ 0945	27.2
1011	17.9 hit w/ He
1043	23.5
#3 1145	9.89

Note, Gauge started at

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: SW Property Corner

Sample ID: GT-OPV-3

Date: 8-11-09
Sampling personnel: T. Daigle
Summa Canister ID: Can 164
Flow Regulator ID: 0316
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1108
Sampling Finish Time: 1441

During Sampling	
Time	Vacuum
1129	26
1215	21
1323	13
1416	6

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: ~~28.5~~ in/hr
Pressure gauge reading (After sample collected): Flow Controller: 2 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	~~29.60~~ 78	~~29.61~~ 81
Barometric Pressure:	29.60	29.61
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: NM
Ambient air concentration: 0
Soil gas concentration prior to sampling: NM
Length of time for air purging prior to sampling: 5 min
Could not purge any air

Time	[He] %
1108	36.9
1135	13.3 hit w/ He
1215	10.5 hit w/ He to 45.0%
1323	3.8 hit w/ He to 50.8%
1416	6.6 hit w/ He to 40.8%
1441	18.2

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: NE Property Corner

Sample ID: GT-DPV-4

Date: 8-11-09

Sampling personnel:

Summa Canister ID: Can 176

Flow Regulator ID: 0273

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 0940

Sampling Finish Time: 1149

During Sampling	
Time	Vacuum
1012	26
1043	25
1128	25
1149	25

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 28 in/hr

Pressure gauge reading (After sample collected): Flow Controller: 25 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	75	78
Barometric Pressure:	29.56	29.60
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: NM

Ambient air concentration: 0 ppb

Soil gas concentration prior to sampling: NM

Length of time for air purging prior to sampling: Could not purge Any Air.

Note: Water in Swagelok Fitting When disconnected

Time	He [ ] %
0940	35,8
1012	29,7
1043	24,2
1149	16,0

Water In Tube

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Middle West Property

Sample ID: GT-OPV-5

Date: 8-11-09
Sampling personnel: T. Daigle
Summa Canister ID: Can 542
Flow Regulator ID: 0301
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1101
Sampling Finish Time: 1325

During Sampling	
Time	Vacuum
1128	30
1215	30
1325	30

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 30 in/hr
Pressure gauge reading (After sample collected): Flow Controller: 30 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	78	83
Barometric Pressure:	29.60	29.61
Prevailing Wind Direction:	north	north
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: NM
Ambient air concentration: 0
Soil gas concentration prior to sampling: NM
Length of time for air purging prior to sampling: 5 min
did not purge any air (could not)
Soil too tight maybe

Time	[He] %	
1101	42.4	
1135	~~43.3~~ 29.3	~~2nd test~~
1215	24.6	hit w/ He
1325	12.0	

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: NW Property Corner

Sample ID: GT-OPV-6

Date: 8-11-09
Sampling personnel: T. Daigle
Summa Canister ID: Can 543
Flow Regulator ID: 0100
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1004
Sampling Finish Time: 1111

During Sampling	
Time	Vacuum
1028	20

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): **Flow Controller:** ~~2~~ 30 in/hr
Pressure gauge reading (After sample collected): **Flow Controller:** 2 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	79	83
Barometric Pressure:	29.59	29.60
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: NM
Ambient air concentration: 0
Soil gas concentration prior to sampling: NM
Length of time for air purging prior to sampling:
5 min

Time	[He] %
1004	38.9
1028	16.4 hit w/ He
1111	10.3

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location:

Sample ID: GT-DPV-XX

Date: 8-11-09
Sampling personnel: T. Duigle
Summa Canister ID: Can 522
Flow Regulator ID: 0267
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1114
Sampling Finish Time: 1220

During Sampling	
Time	Vacuum
1129	23
1154	13

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 28 in/hr
Pressure gauge reading (After sample collected): Flow Controller: 3 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	~~29.60~~ 80	~~29.61~~ 83
Barometric Pressure:	29.60	29.61
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: NM
Ambient air concentration: 0 ppb
Soil gas concentration prior to sampling: NM
Length of time for air purging prior to sampling: NA (none)

Time	[He] %
1114	10.3 % hit w/ He
1115	48.5
1154	14.0 hit w/ He
1220	12.1

duplicate of ~~DPV-5~~ DPV-6 hooked up immediately after sample

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Gym

Sample ID: GT-SS-1

Date: 8-11-04
Sampling personnel: T. Daigle
Summa Canister ID: Can 382
Flow Regulator ID: 0336
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1247
Sampling Finish Time: 1353

During Sampling	
Time	Vacuum
1316	18

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 30 in/hr
Pressure gauge reading (After sample collected): Flow Controller: 5 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	82	84
Barometric Pressure:	29.60	29.61
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? (Yes) **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: 0.00
Ambient air concentration: ~200 ppb
Soil gas concentration prior to sampling: ~175 ppb
Length of time for air purging prior to sampling: 3 min

Time	[He] %
1247	41.1
1316	38.1
1352	34.9

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Boiler Room

Sample ID: GT-55-2

Date:
Sampling personnel: T. Daigle
Summa Canister ID: Can 140
Flow Regulator ID: 0359
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1251
Sampling Finish Time: 1330

During Sampling	
Time	Vacuum
1316	11
1330	0

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): **Flow Controller:** 28 in/hr
Pressure gauge reading (After sample collected): **Flow Controller:** 0 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	82	84
Barometric Pressure:	29.60	29.61
Prevailing Wind Direction:	varying	varying
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: 0.00
Ambient air concentration: ~200 ppb
Soil gas concentration prior to sampling: ~150 ppb
Length of time for air purging prior to sampling: 3 min

Time	[He] Co
1251	47.3
1316	43.8
1330	40.1

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Classrooms

Sample ID: GT-SS-3

Date:

Sampling personnel:

Summa Canister ID: Can 1718 ~~Switch to Can~~

Flow Regulator ID: 0084 switch to 0100

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1301, re-open at 1308

Sampling Finish Time: 1404

During Sampling	
Time	Vacuum
1340	14
1356	7

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: ~~0~~ 30 w/ 0100 in/hr

Pressure gauge reading (After sample collected): Flow Controller: 3 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	82	84
Barometric Pressure:	29.60	29.61
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? ~~Yes~~ **If Yes, what time:** **Taken by:**

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: 0.00

Ambient air concentration: ~200PPb

Soil gas concentration prior to sampling: ~150PPb

Length of time for air purging prior to sampling: 4 min

Time	[He] %
1301	39.1
1319	35.5
1356	28.1
1404	25.8

Note: initial regulator did not record any pressure. Switched to new regulator and had 30"; Kept Same Can

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location:

Sample ID: GT-55-XX

Date:

Sampling personnel:

Summa Canister ID: Can 137

Flow Regulator ID: 0347

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1301

Sampling Finish Time: 1404

During Sampling	
Time	**Vacuum**
1340	14
1356	6

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): **Flow Controller:** 29 in/hr

Pressure gauge reading (After sample collected): **Flow Controller:** 5 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	82	84
Barometric Pressure:	29.60	29.61
Prevailing Wind Direction:	North	North
General Weather Conditions:	Sunny, humid	Sunny, humid

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: 0.00
Ambient air concentration: ~200 ppb
Soil gas concentration prior to sampling: ~150 ppb
Length of time for air purging prior to sampling: 4 min

Time	[He] %
1301	39.1
1319	35.5
1356	28.1
1404	25.8

Duplicate of GT-55-3 (tee splitter)

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: northwest corner of open bible baptist property

Sample ID: GT-OA-NW

Date: 1.20.2010

Sampling personnel: tarl + gvm

Summa Canister ID: 744

Flow Regulator ID: 0169

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 0825

Sampling Finish Time: 0727 on 1-21-2010

During Sampling	
Time	Vacuum
1307	26.5

Did Summa canister go to ambient pressure? Yes / No

Vacuum pressure reported by Laboratory: --- -29.3 in Hg

Pressure gauge reading (Pre-opening): Flow Controller: -2 in. Hg pre sampling: -30+ in Hg

Pressure gauge reading (After sample collected): Flow Controller: -5 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	27°	25
Barometric Pressure (in. Hg):	30.05	30.08
Prevailing Wind Direction:	calm	Calm
General Weather Conditions:	cloudy	sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	27°	25
Barometric Pressure (in. Hg):	30.05	30.08

PID readings at sample location (ppb): 0

Photographs taken before sampling? (Yes) / No **If Yes, what time:** _____ **Taken by:** TAD

Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / (No) **If yes, how long?**

Windows open? Yes / No **Ventilation fans?** Yes / (No)

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / (No)

Were any of the residents home during sampling? (Yes) / No **If yes, provide detail:** students / staff @ school

Did any of the occupants NOT follow instruction for residents? Yes / No **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 5' 5".

24-hour Sample

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: southeast corner of open brick vaqnst property

Sample ID: GT-OA-SE

Date: 1-20-2010 to 1/21/2010

Sampling personnel: tad + qvm

Summa Canister ID: 899

Flow Regulator ID: ~~0004~~ 0064

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: ~~0821~~ 0934

Sampling Finish Time: 0726 on 1-21-2010

During Sampling	
Time	Vacuum
1308	25

Did Summa canister go to ambient pressure? Yes / No

Vacuum pressure reported by Laboratory: --- -29.3

Pressure gauge reading (Pre-opening): Flow Controller: -0 in. Hg pre-sampling: -30 in Hg.

Pressure gauge reading (After sample collected): Flow Controller: -4 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	27°	~~20~~ 25
Barometric Pressure (in. Hg):	30.05	30.08
Prevailing Wind Direction:	calm	Calm
General Weather Conditions:	cloudy	Sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	27°	20
Barometric Pressure (in. Hg):	~~30.05~~	30.08

PID readings at sample location (ppb): 0

Photographs taken before sampling? (Yes) / No **If Yes, what time:** _____ **Taken by:** T. Daigle

Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / (No) **If yes, how long?**

Windows open? Yes / No **Ventilation fans?** Yes / (No)

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / (No)

Were any of the residents home during sampling? (Yes) / No **If yes, provide detail:** staff / students @ school

Did any of the occupants NOT follow instruction for residents? Yes / No **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

24-hour Sample

Air intake at 5' 6".

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: gym of open bible baptist school

Sample ID: GT-1A-GYM

Date: 1.20.2010
Sampling personnel: tad + gvm
Summa Canister ID: 959
Flow Regulator ID: 0013
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0755
Sampling Finish Time: 0742 on 1-21-2010

During Sampling	
Time	Vacuum
1310	26

Did Summa canister go to ambient pressure? Yes / No
Vacuum pressure reported by Laboratory: --- -29.3

Pressure gauge reading (Pre-opening): Flow Controller: -2 in. Hg (pre-sampling) flow controller: -30+ 49
Pressure gauge reading (After sample collected): Flow Controller: -5 in. Hg

Environmental Conditions (Outside):	Before Sampling	After Sampling
Temperature (°F):	27	25
Barometric Pressure (in. Hg):	30.05	30.08
Prevailing Wind Direction:	calm	calm
General Weather Conditions:	cloudy	clear

Environmental Conditions (At Sample Location):	Before Sampling	After Sampling
Temperature (°F):	65	65
Barometric Pressure (in. Hg):	30.05	30.08

PID readings at sample location (ppb): 0-50

Photographs taken before sampling? Yes / No **If Yes, what time:** 0800 **Taken by:** tad
Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / No **If yes, how long?**
Windows open? Yes / No **Ventilation fans?** Yes / No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / No
Were any of the residents home during sampling? Yes / No **If yes, provide detail:** students / staff @ school
Did any of the occupants NOT follow instruction for residents? Yes / No **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 4'10".

24-hour Sample

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: gym of open bible baptist school

Sample ID: GT-1A-XX

Date: 1-20-2010
Sampling personnel: tad · gvm
Summa Canister ID: 1531
Flow Regulator ID: 0495
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0755
Sampling Finish Time: 0742 on 1-21-2010

During Sampling	
Time	Vacuum
1310	26.5

Did Summa canister go to ambient pressure? Yes / No
Vacuum pressure reported by Laboratory: --- -29.3

Pressure gauge reading (Pre-opening): Flow Controller: -3 in. Hg (presampling) Flow controller: -30+ Hg
Pressure gauge reading (After sample collected): Flow Controller: ~~-30~~ -6 in Hg

Environmental Conditions (Outside):	Before Sampling	After Sampling
Temperature (°F):	~~gvm65~~ 27	25
Barometric Pressure (in. Hg):	30.05	30.08
Prevailing Wind Direction:	calm	calm
General Weather Conditions:	cloudy	clear

Environmental Conditions (At Sample Location):	Before Sampling	After Sampling
Temperature (°F):	65	65
Barometric Pressure (in. Hg):	30.05	30.08

PID readings at sample location (ppb): 0-50

Photographs taken before sampling? Yes / No If Yes, what time: 0800 Taken by: tad
Photographs taken after sampling? Yes / No If Yes, what time: _____ Taken by: _____

Was the building aired out prior to sample collection? Yes / No If yes, how long?
Windows open? Yes / No Ventilation fans? Yes / No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / No
Were any of the residents home during sampling? Yes / No If yes, provide detail: students/staff at school
Did any of the occupants NOT follow instruction for residents? Yes / No If yes, describe below:

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 4'10".

duplicate of GT-1A-GYM
on chain wrote GT-1A-XX start time 1200
end time 1330

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

2B Sampling Location: classroom-east in basement of open bible baptist school

Sample ID: GT-1A-CLS

Date: 1-20-2010

Sampling personnel: tad + gvm

Summa Canister ID: 1661

Flow Regulator ID: 363

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 0804

Sampling Finish Time: 0744 on 1-21-2010

During Sampling	
Time	Vacuum
1311	26

Did Summa canister go to ambient pressure? Yes / No

Vacuum pressure reported by Laboratory: --- -29.3

Pressure gauge reading (Pre-opening): Flow Controller: -3 in. Hg pre-sampling: -30+ in Hg.

Pressure gauge reading (After sample collected): Flow Controller: -5 in. Hg

Environmental Conditions (Outside):	Before Sampling	After Sampling
Temperature (°F):	27	25
Barometric Pressure (in. Hg):	30.05	30.08
Prevailing Wind Direction:	calm	calm
General Weather Conditions:	cloudy	clear

Environmental Conditions (At Sample Location):	Before Sampling	After Sampling
Temperature (°F):	73	72
Barometric Pressure (in. Hg):	30.05	30.08

PID readings at sample location (ppb): 0-50

Photographs taken before sampling? Yes / No If Yes, what time: 0803 Taken by: tad

Photographs taken after sampling? Yes / No If Yes, what time: _____ Taken by: _____

Was the building aired out prior to sample collection? Yes / No If yes, how long?

Windows open? Yes / No Ventilation fans? Yes / No

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / No

Were any of the residents home during sampling? Yes / No If yes, provide detail: students / staff at school

Did any of the occupants NOT follow instruction for residents? Yes / No If yes, describe below:

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 5'9".

Possible VOCs in room: whiteboard markers, clorox wipes, hand sanitizer
- dimethyl benzyl amonium chloride
- n-Alkyl
- Ethyl benzyl ammonium chloride

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: cafeteria of open bible baptist school

Sample ID: GT-1A-CAF

Date: 1·20·2010

Sampling personnel: tad + gvm

Summa Canister ID: 941

Flow Regulator ID: 0187

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 0810

Sampling Finish Time: 0745 On 1-21-2010

During Sampling	
Time	Vacuum
1312	24

Did Summa canister go to ambient pressure? Yes / No

Vacuum pressure reported by Laboratory: --- -29.3

Pressure gauge reading (Pre-opening): Flow Controller: 0 in. Hg pre-campling: -30 in Hg

Pressure gauge reading (After sample collected): Flow Controller: -3 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	27	25
Barometric Pressure (in. Hg):	30.05	30.08
Prevailing Wind Direction:	calm	calm
General Weather Conditions:	cloudy	clear

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	65°F	65
Barometric Pressure (in. Hg):	30.05	30.08

PID readings at sample location (ppb): 0-50

Photographs taken before sampling? Yes / No **If Yes, what time:** 0809 **Taken by:** tad

Photographs taken after sampling? Yes / No **If Yes, what time:** _____ **Taken by:** _____

Was the building aired out prior to sample collection? Yes / No **If yes, how long?**

Windows open? Yes / No **Ventilation fans?** Yes / No

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes / No

Were any of the residents home during sampling? Yes / No **If yes, provide detail:** students / staff

Did any of the occupants NOT follow instruction for residents? Yes / No **If yes, describe below:**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process, as well as a sketch of the sampling location and sample setup indicating height of air intake from ground surface:

Air intake at 4'8".

clorox wipes next to sink (see GT-1A-CLS for ingredients)

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Gymnasium

Sample ID: GT-SS-01

Date: 1/21/10

Sampling personnel: TAD, GVM

Summa Canister ID: 1716

Flow Regulator ID: 0288

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 0951

Sampling Finish Time: 1109

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: -30 in/hr in Hg.

Pressure gauge reading (After sample collected): Flow Controller: -4 ~~in/hr~~ in Hg.

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	25°	35
Barometric Pressure:	30.08	30.08
Prevailing Wind Direction:	calm	calm
General Weather Conditions:	clear	clear

Photographs taken before sampling? (Yes) **If Yes, what time:** 1010 **Taken by:** tad

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: NM

Ambient air concentration: 0 ppb

Soil gas concentration prior to sampling: 600 ppb

Length of time for air purging prior to sampling:

5 min @ ~~0.2 L/m~~ ~~0.1~~ 0.2 L/min

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Boiler Room

Sample ID: GT-SS-02

Date: 1/21/10
Sampling personnel: TAD, GUM
Summa Canister ID: 385
Flow Regulator ID: 0377
Sample Type / Analysis Method: TO15/~~Summa~~ both!
Sampling Start Time: 1007
Sampling Finish Time: 1121

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: -30 in/hr in Hg.
Pressure gauge reading (After sample collected): Flow Controller: -3 ~~in/hr~~ in Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	30°F	35
Barometric Pressure:	30.08	30.08
Prevailing Wind Direction:	calm	calm
General Weather Conditions:	clear / partly cloudy	clear

Photographs taken before sampling? (Yes) **If Yes, what time:** 1010 **Taken by:** tad
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm
Ambient air concentration: 0-50 ppb
Soil gas concentration prior to sampling: 500 ppb
Length of time for air purging prior to sampling:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Main Hallway

Sample ID: GT-55-03

Date: 1/21/10
Sampling personnel: TAD, GVM
Summa Canister ID: 1734
Flow Regulator ID: 0341
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1030
Sampling Finish Time: 1141

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: ~~30 in/hr~~ 1 in Hg.
Pressure gauge reading (After sample collected): Flow Controller: ~5 ~~in/hr~~ in Hg.

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	30	35
Barometric Pressure:	30.08	30.08
Prevailing Wind Direction:	Calm	Calm
General Weather Conditions:	clear/ partly Cloudy	clear

Photographs taken before sampling? Yes **If Yes, what time:** 1030 **Taken by:** Tad
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm
Ambient air concentration: 0-50 ppb
Soil gas concentration prior to sampling: 550 ppb
Length of time for air purging prior to sampling: 8 min.

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Main Hallway

Sample ID: GT-SS-XX

Date: 1/21/10

Sampling personnel: TAD GVM

Summa Canister ID: 357

Flow Regulator ID: 0149

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1030

Sampling Finish Time: ~~1121~~ 1130

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: -26 ~~in/hr~~ in Hg

Pressure gauge reading (After sample collected): Flow Controller: -3 ~~in/hr~~ in Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	30	35
Barometric Pressure:	30.08	30.08
Prevailing Wind Direction:	calm	calm
General Weather Conditions:	clear / partly cloudy	clear

Photographs taken before sampling? (Yes) **If Yes, what time:** 1033 **Taken by:** TAD

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm

Ambient air concentration: 0-50 ppb

Soil gas concentration prior to sampling: 550ppb

Length of time for air purging prior to sampling: 8min

Duplicate of GT-SS-03

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Southeast corner of OBBS

Sample ID: GT-DPV-01

Date: 1.21.2010
Sampling personnel: gvm tad
Summa Canister ID: ~~401~~ 146
Flow Regulator ID: ~~0275~~ 429
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1209
Sampling Finish Time: 1249

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 29 ~~in/hr~~ in Hg
Pressure gauge reading (After sample collected): Flow Controller: -3 ~~in/hr~~ in Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	35°	35
Barometric Pressure:	30.08	30.09
Prevailing Wind Direction:	Southeast	south
General Weather Conditions:	clear	clear

Photographs taken before sampling? (Yes) **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: ~~ppm~~ (29.3 according to Alpha)
Ambient air concentration: ~~ppbv~~
Soil gas concentration prior to sampling: 255 ~~ppb~~
Length of time for air purging prior to sampling: 8 min

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: East of OBBS along fence

Sample ID: GT-DPV-02

Date: 1.21.2010
Sampling personnel: gvm, tad
Summa Canister ID: ~~446~~ 461
Flow Regulator ID: ~~424~~ 0275
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1217
Sampling Finish Time: 1301

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: -30 in/hr
Pressure gauge reading (After sample collected): Flow Controller: -2 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	35	35
Barometric Pressure:	30.04	30.04
Prevailing Wind Direction:	North	East
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? (Yes) **If Yes, what time:** **Taken by:** TAD
Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm (Alpha - 29.3)
Ambient air concentration: 0 ppb
Soil gas concentration prior to sampling: 200 ppb
Length of time for air purging prior to sampling: 5 min

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: Southwest corner of OBBS

Sample ID: GT-DPV-03

Date: 1.21.10

Sampling personnel: tad, gvm

Summa Canister ID: 411

Flow Regulator ID: 0182

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1227

Sampling Finish Time: 1345

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: -30+ in/hr

Pressure gauge reading (After sample collected): Flow Controller: -30 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	35°	35
Barometric Pressure:	30.08	30.09
Prevailing Wind Direction:	southwest	East
General Weather Conditions:	clear, sunny	Sunny

Photographs taken before sampling? (Yes) **If Yes, what time:** 1229 **Taken by:** gvm

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm

Ambient air concentration: 0 ppb

Soil gas concentration prior to sampling: nm - too much resistance

Length of time for air purging prior to sampling: <1 min.

V. tight soil - pump fails.

no change in pressure in summa can - assume no sample.

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: ~~outside of OBBS along tunnel~~ North of OBBS on pavement

Sample ID: GT-DPV-04

Date: 1.21.10

Sampling personnel: tad, gvm

Summa Canister ID: 339

Flow Regulator ID: J315

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: not sampled

Sampling Finish Time:

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): **Flow Controller:** in/hr

Pressure gauge reading (After sample collected): **Flow Controller:** in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	30°	35°
Barometric Pressure:	nm	nm
Prevailing Wind Direction:	south	south
General Weather Conditions:	clear	clear

Photographs taken before sampling? ~~Yes~~ **If Yes, what time:** **Taken by:** TAD

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm GT-DPV-04 flooded w/ groundwater

Ambient air concentration: 0 ppb

Soil gas concentration prior to sampling: nm submerged - unsamplable.

Length of time for air purging prior to sampling:

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SUB-SLAB SAMPLING CHECKLIST

Sampling Location: West of OBBS along Lungs

Sample ID: GT-DPV-05

Date: 1.21.10

Sampling personnel: tad, gvm

Summa Canister ID: 407

Flow Regulator ID: 0084

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1309

Sampling Finish Time:

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: 26 ~~in/hr~~ in Hg.

Pressure gauge reading (After sample collected): Flow Controller: in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	35°	Not Sampled
Barometric Pressure:		
Prevailing Wind Direction:	South	
General Weather Conditions:	clear	

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm

Ambient air concentration: 0 ppb.

Soil gas concentration prior to sampling: nm

Length of time for air purging prior to sampling: ~~X~~ 1 min.

Pump failed - too much resistance, tight soil.

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: northwest of OBBS along E. Niagara St.

Sample ID: GT-DPV-06

Date: 1.21.10

Sampling personnel: tad, gvm

Summa Canister ID: 524

Flow Regulator ID: 0364

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1255

Sampling Finish Time: 1357

During Sampling	
Time	Vacuum

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): Flow Controller: ~~-2 in/hr~~ in Hg

Pressure gauge reading (After sample collected): Flow Controller: -3 in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	36	36
Barometric Pressure:	30.09	30.09
Prevailing Wind Direction:	East	East
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? (Yes) **If Yes, what time:** **Taken by:** TAD

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm (Alpha says - 29.3)
Ambient air concentration: 0 ppb
Soil gas concentration prior to sampling: 150-200
Length of time for air purging prior to sampling: 5 min

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: northwest of OBBS along E. Niagara St.

Sample ID: GT-DPV-~~X~~XX

Date: 1.21.2010

Sampling personnel: gvm, tad

Summa Canister ID: 332

Flow Regulator ID: 0172

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1255

Sampling Finish Time:

During Sampling	
Time	**Vacuum**

Did Summa Canister go to ambient pressure? No

Pressure gauge reading (Pre-opening): **Flow Controller:** ~~30 in/hr~~ in Hg

Pressure gauge reading (After sample collected): **Flow Controller:** in/hr

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	35	
Barometric Pressure:		
Prevailing Wind Direction:	south	
General Weather Conditions:	clear	

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**

Photographs taken after sampling? No **If Yes, what time:** NA **Taken by:** NA

Comments:

Vacuum prior to sampling: nm - 29.3

Ambient air concentration: 0 ppb

Soil gas concentration prior to sampling: 150-200

Length of time for air purging prior to sampling: 5min

duplicate of GT-DPV-06

on chain: GT-DPV-XX start time: 1200
end time: 1330.

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: Cherrimy | Sample date: 9/17/09 | Well ID: DPW-201

Well location description: Carney St - end of Street

Well Construction
- Well diameter: 1" PVC
- Well measurement point: TPVC
- Roadbox condition: excellent
- Well screen interval: —
- Well depth: 14.7

Sampling Information
- Initial depth to water: 5.00 Time: 0921
- Sample intake depth: —
- Pump type and ID: YSI 05m1621
- Stabilized flow rate: ~100ml/min
- Stabilized flow rate = flow rate with no further drawdown
- YSI SN#:

Samples Collected

VOCs 8260	
SVOCs 8270	
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:
- Time: ____ Depth to water: ____
- Sp.Cond. ____ mS/cm
- DO ____ mg/L
- ORP ____ mV
- pH ____ s.u.
- Temp. ____ °C
- Turb. ____ NTU

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
0955	0.05	14.22	1.160	1.27	95.9	6.87	17.11	8.6
1001	0.10	14.20	1.162	1.66	86.1	7.05	17.17	9.5
1005				0 cy				

Sample Information:
- Sample ID: DPW-201
- Sample Time: 1250
- Color:
- Turbidity:
- Field Filtered YES / NO Analyses:
- Filter type:
- Odor/Sheen/NAPL
- Duplicate Collected YES / NO
- If yes, duplicate ID:
- Purge water disposal? to ground drummed other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
- Sp.Cond. +/- 3%
- DO +/- 10%
- ORP +/- 10 mV
- pH +/- 0.1 Std Units
- Temp. +/- 3%
- Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes:

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: S. Hay | Sample date: 9/17/09 | Well ID: DPW-202

Well location description: In back of build. "J"

Well Construction

Well diameter: 0.75"
Well measurement point: top of PVC
Roadbox condition: good-new
Well screen interval:
Well depth: ~15'

Sampling Information

Initial depth to water: 7.03' Time: 1418
Sample intake depth:
Pump type and ID: peristaltic
Stabilized flow rate: not measured.

Stabilized flow rate = flow rate with no further drawdown

YSI SN#: 07M100241

Samples Collected

VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

†Forensics

Field values at time of sample collection:

Time:	1551		Depth to water:
Sp.Cond.	1.411	mS/cm	7.73'
DO	0.45	mg/L	
ORP	-20.0	mV	
pH	6.60	s.u.	
Temp.	13.01	°C	
Turb.	1.2.	NTU	

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
1441	—	7.41	1.706	2.25	32.0	6.50	13.45	1232.7
1446	0.5	7.82	1.633	1.26	11.6	6.48	13.41	734.5
1451	1.0	7.75	1.568	1.07	0.3	6.51	13.12	276.2
1456	1.5	7.60	1.520	0.92	-6.4	6.54	13.24	83.8
1501	2.0		1.507	0.84	-8.1	6.54	13.32	45.7
1506	2.5	7.70	1.489	0.77	-11.2	6.55	13.31	19.0
1511	2.75		1.478	0.73	-12.5	6.56	13.10	15.7
1516	3.0		1.495	0.56	-15.6	6.58	13.07	4.5
1541	4.0	7.72	1.418	0.45	-19.0	6.60	13.05	2.0
1546	4.25	7.73	1.413	0.46	-16.3	6.60	13.03	1.6
1551	4.5	7.73	1.411	0.45	-20.0	6.60	13.01	1.2

Started pump

Sample Information:

Sample ID: DPW-202.
Sample Time: ~ minutes
Color: none
Turbidity: clear.
Field Filtered YES (NO) Analyses: NA
Filter type: NA
Odor/Sheen/NAPL: /
Duplicate Collected YES (NO)
If yes, duplicate ID: NA
Purge water disposal? to ground (drummed) other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes:

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: SMC | Sample date: 9/17/01 | Well ID: GT-MW74

Well location description: Lft side of road

Well Construction: 2" PVC

Well diameter:

Well measurement point: TPVC

Roadbox condition: excellent

Well screen interval:

Well depth: 13.40

Sampling Information

Initial depth to water: 4.75 | Time:

Sample intake depth:

Pump type and ID:

Stabilized flow rate: ~125 ml/min

Stabilized flow rate = flow rate with no further drawdown

YSI SN#:

Samples Collected

VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	1235	
Sp.Cond.	1.764	mS/cm
DO	2.42	mg/L
ORP	91.0	mV
pH	6.83	s.u.
Temp.	19.99	°C
Turb.	8.1	NTU

Depth to water: 5.20

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
1143	0.05	4.95	1.899	10.02	52.8	7.06	20.25	41.3
1147	0.10		1.901	13.88	61.1	6.94	20.20	22.4
1205	0.15 *	5.10	1.922	2.11	75.9	7.01	19.96	14.2
1210	0.20	5.13	1.941	2.69	77.2	6.99	19.85	10.2
1215	0.30	5.20	1.782	2.56	78.4	6.96	19.80	8.2
1220	0.40	5.20	1.780	2.49	79.6	6.94	19.88	8.5
1225	0.50	5.20	1.764	2.42	81.0	6.83	19.99	8.1

Notes: * - re-calib DO probe to 99.2%, was reading 150%

Sample Information:

Sample ID: GT-MW74

Sample Time: 1235

Color: clear

Turbidity: 8.1

Field Filtered YES / (NO)

Analyses:

Filter type: —

Odor/Sheen/NAPL: None

Duplicate Collected YES / (NO)

If yes, duplicate ID:

Purge water disposal? to ground / (drummed) / other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: **091220** - Gastown Former MGP | Sampling personnel: SMC | Sample date: 9/17/11 | Well ID: DPW-203

Well location description: NW R.W. side of road

Well Construction

Well diameter: 1" PVC
Well measurement point: TPVC
Roadbox condition: excellent
Well screen interval: —
Well depth: 12.72

Sampling Information

Initial depth to water: 5.93 Time: —
Sample intake depth: ~11'
Pump type and ID: YSI 05M1621
Stabilized flow rate: >100 ml/min

Stabilized flow rate = flow rate with no further drawdown

YSI SN#:

Samples Collected

VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	1011	
Sp.Cond.	0.754	mS/cm
DO	7.29	mg/L
ORP	145.6	mV
pH	6.92	s.u.
Temp.	17.27	°C
Turb.	1241.1	NTU

Depth to water: 9.50

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
0909	0.05	6.43	0.811	6.02	153	6.77	16.74	445.7
0914	0.10	6.62	0.801	7.40	155.9	6.83	17.16	376.2
0919	0.15	7.12	0.810	6.91	160.1	6.86	17.36	333.9
0924	0.20	7.73	0.798	7.63	162.9	6.85	17.41	269.1
0929	0.24	8.55	0.796	7.45	162.0	6.88	17.98	199.2
09		slow	flow	cell				1241.1
0940	0.30	9.50	0.805	5.90	151.3	7.03	17.56	1242.1
0945	0.35	9.50	0.794	7.31	150.5	7.39	17.23	1239.5
0950	0.40	9.50	0.770	7.91	149.1	6.93	17.26	1239.3
0955	0.45	9.50	0.761	7.34	147.3	6.91	17.25	1240.4
1000	0.50	9.50	0.754	7.29	145.6	6.92	17.27	1241.1

Notes:

Sample Information:

Sample ID: DPW-203
Sample Time: 1010
Color: tan silt
Turbidity: 1241.1
Field Filtered YES / NO — Analyses: —
Filter type: —
Odor/Sheen/NAPL: none
Duplicate Collected YES / (NO)
If yes, duplicate ID: —
Purge water disposal? to ground (drummed) other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval
2 Minimize drop in water level and purge until parameters are stable
3 Disconnect flow thru cell during sampling
4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: Cherrington | Sample date: 9/17/09 | Well ID: DPW-204

Well location description: end

Well Construction
- Well diameter: 1" PVC
- Well measurement point: TPVC
- Roadbox condition: excellent
- Well screen interval:
- Well depth: 12.40

Sampling Information
- Initial depth to water: 3.75 | Time:
- Sample intake depth:
- Pump type and ID: YSI 05M1631
- Stabilized flow rate: ~125 ml/min
- Stabilized flow rate = flow rate with no further drawdown
- YSI SN#:

Samples Collected

VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	1545	
Sp.Cond.	0.994	mS/cm
DO	2.67	mg/L
ORP	70.6	mV
pH	6.82	s.u.
Temp.	21.39	°C
Turb.	37.1	NTU

Depth to water: 3.95

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
1512	0.05	3.95	0.998	3.79	69.3	6.95	20.92	266.2
1517	0.10	3.95	0.992	3.43	68.9	6.88	20.30	39.1
1522	0.15	3.95	0.981	3.25	68.1	6.85	21.77	52.4
1527	0.20	3.95	0.913	3.04	68.3	6.85	21.99	41.1
1532	0.30	3.95	0.916	2.98	68.9	6.85	22.19	38.1
1537	0.40	3.95	0.907	2.84	69.7	6.84	21.79	38.3
1542	0.50	3.95	0.895	2.73	70.4	6.82	21.48	37.4
1547	0.60	3.95	0.894	2.67	70.6	6.82	21.39	37.1

Notes:

Sample Information:
- Sample ID: DPW-204
- Sample Time: 1545
- Color: bit of tan silt
- Turbidity: 37.1
- Field Filtered YES / NO: NO | Analyses:
- Filter type:
- Odor/Sheen/NAPL: non
- Duplicate Collected YES / NO: NO
- If yes, duplicate ID:
- Purge water disposal? to ground | drummed | other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
- Sp.Cond. +/- 3%
- DO +/- 10%
- ORP +/- 10 mV
- pH +/- 0.1 Std Units
- Temp. +/- 3%
- Turb. +/- 10% if values >1 NTU

Guidance:
1. Position tubing at midpoint of saturated screened interval
2. Minimize drop in water level and purge until parameters are stable
3. Disconnect flow thru cell during sampling
4. Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5. For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: Sarah Hay | Sample date: 9/16/09 | Well ID: DPW-206

Well location description: along Fillmore Ave at intersection w/ Longs Ave.

Well Construction

Well diameter: 3/4"
Well measurement point: top of PVC
Roadbox condition: good, new
Well screen interval:
Well depth: ~15'

Sampling Information

Initial depth to water: 9.10' Time: 0910
Sample intake depth: ~12'
Pump type and ID: peristaltic
Stabilized flow rate: not measured.
Stabilized flow rate = flow rate with no further drawdown

YSI SN#: 07M100241 (Palms)

Samples Collected

VOCs 8260 +SIM	✓
SVOCs 8270+ SIM	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time: 1010 | Depth to water: NM.
Sp.Cond. 38.42 mS/cm
DO 0.36 mg/L
ORP -34.9 mV
pH 6.75 s.u.
Temp. 18.31 °C
Turb. 0.9 NTU

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values		NM	0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
0930	—		29.86	1.77	41.0	6.67	18.33	225.6
0935	0.2		37.64	0.55	-7.5	6.69	18.24	23.5
0940	0.5		38.57	0.46	-20.1	6.73	18.26	15.2
0950	1.0		38.60	0.40	-29.1	6.74	18.59	11.8
0955	1.5		38.62	0.39	-31.3	6.75	18.32	6.4
1000	2.0		38.60	0.36	-31.8	6.75	18.28	3.7
1005	2.5		38.54	0.34	-34.1	6.75	18.33	2.5
1010	3.0		38.42	0.36	-34.9	6.75	18.31	0.9
			✓	✓	✓	✓		

Notes: no micro wl indicator, saw no signs of drawdown.

Sample Information:

Sample ID: DPW-206.
Sample Time: ~30 minutes
Color: none.
Turbidity: low - stirred up using bailer
Field Filtered YES / NO
Analyses: NA
Filter type: NA
Odor/Sheen/NAPL: none observed.
Duplicate Collected YES / NO
If yes, duplicate ID: ~~MS/MSD~~ DPW-XX @1200.
Purge water disposal? to ground drummed other: non-haz.

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval
2 Minimize drop in water level and purge until parameters are stable
3 Disconnect flow thru cell during sampling
4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: S. Hay | Sample date: 9/17/09 | Well ID: DPW-207

Well location description: Along Longs ave in front of #44.

Well Construction

Well diameter: 0.75"
Well measurement point: top of PVC
Roadbox condition: good new
Well screen interval:
Well depth: ~15'

Sampling Information

Initial depth to water: 6.32' Time: 0838
Sample intake depth:
Pump type and ID: peristaltic
Stabilized flow rate: not measured.

Stabilized flow rate = flow rate with no further drawdown

YSI SN#: 07M100241 (PALMS)

Samples Collected

VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	0930	
Sp.Cond.	1.210	mS/cm
DO	1.69	mg/L
ORP	144.0	mV
pH	7.05	s.u.
Temp.	19.19	°C
Turb.	7.9 and falling	NTU

Depth to water: 8.90'

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
0900.	–	8.71	1.328	1.75	132.1	6.91	19.10	1078.1
0905	0.5	8.80	1.303	2.05	138.6	7.03	18.99	262.5
0910	1.0	9.04	1.272	1.89	144.8	7.05	19.04	67.9
0915	1.5	8.90.	1.246	1.62	140.1	7.04	19.06	23.0.
0920	1.75	8.76.	1.231	1.53	138.8	7.05	19.07	24.2.
0925	2.0	8.89	1.229	1.58	145.4	7.05	19.13	16.16
0930.	2.5	8.90.	1.210	1.64	144.0	7.05	19.19	7.9
			✓	✓	✓	✓	✓	✓

Notes:

Sample Information:

Sample ID: DPW-207.
Sample Time: ~25 minutes
Color: none
Turbidity: clear.
Field Filtered YES (NO) Analyses: NA
Filter type: NA
Odor/Sheen/NAPL: none observed
Duplicate Collected YES (NO)
If yes, duplicate ID: NA
Purge water disposal? to ground (drummed) other: non-haz

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume =
3.14 x (r)^2 x 7.48 gal/ft
where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval
2 Minimize drop in water level and purge until parameters are stable
3 Disconnect flow thru cell during sampling
4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

readings

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: Chervinsky | Sample date: 9/17/09 | Well ID: DPW-208

sample on 9/18/09

Well location description: end of East (W. RR side)

Well Construction

Well diameter: 1"

Well measurement point: TPVC

Roadbox condition: excellent

Well screen interval:

Well depth: 13.55

Sampling Information

Initial depth to water: 6.95 Time: 1352

Sample intake depth:

Pump type and ID: YSI 05M1621

Stabilized flow rate: <100 ml/min

Stabilized flow rate = flow rate with no further drawdown

YSI SN#:

Samples Collected

VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time: | Depth to water:

Sp.Cond. mS/cm

DO mg/L

ORP mV

pH s.u.

Temp. °C

Turb. NTU

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
1405	0.05	10'	0.873	4.75	49.6	7.32	21.77	10.2
1410	0.10	10.15	0.871	2.68	57.4	7.11	21.25	9.9
1415	0.15	10.30	0.870	2.54	64.7	7.03	21.48	24.8
1420	0.20	12.00	0.901	3.46	67.9	7.03	20.63	667.4
		well			dry			

Notes:

Sample Information:

Sample ID: DPW-208

Sample Time: 9/18/09 0850

Color: clear

Turbidity:

Field Filtered YES / NO Analyses:

Filter type:

Odor/Sheen/NAPL: none

Duplicate Collected YES / NO

If yes, duplicate ID:

Purge water disposal? to ground / drummed other:

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume =
3.14 x (r)^2 x 7.48 gal/ft
where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: S. Hay | Sample date: 9/16/09 | Well ID: DPW-209

Well location description: along Fillmore Ave in front of Inner Harbor Yacht Club.

Well Construction
- Well diameter: 0.75"
- Well measurement point: top of PVC
- Roadbox condition: good - new
- Well screen interval:
- Well depth: ~15'

Sampling Information
- Initial depth to water: 7.81' Time: 1140
- Sample intake depth: ~11'
- Pump type and ID: peristaltic
- Stabilized flow rate: not measured

Stabilized flow rate = flow rate with no further drawdown

YSI SN#: 07M100241 (Palms)

Samples Collected	
VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	1235	
Sp.Cond.	5.659	mS/cm
DO	0.61	mg/L
ORP	-40.6	mV
pH	6.93	s.u.
Temp.	17.27	°C
Turb.	-6.6	NTU

Depth to water: NM

Actual / approx.

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
1150	—	NM	9.672	1.64	-70.8	7.24	18.11	145.9
1155	0.5		8.017	0.52	-64.0	7.05	17.81	43.2
1200	1.0		7.258	0.59	-58.4	7.02	17.71	23.7
1205	1.5		6.701	0.54	-50.0	6.98	17.57	5.6
1210	1.75		6.338	0.52	-46.5	6.96	17.48	-0.9
1215	2.0		6.226	0.52	-44.9	6.95	17.49	-4.0
1220	2.5		5.943	0.60	-41.9	6.94	17.43	-5.4
1225	2.75		5.906	0.60	-41.4	6.94	17.41	-5.8
1230	3.25		5.766	0.62	-40.1	6.93	17.40	-6.4
1235	3.75	✓	5.659	0.61	-40.6	6.93	17.27	-6.6
			✓	✓	✓	✓		✓

Notes:

Sample Information:
- Sample ID: DPW-209
- Sample Time: ~35 minutes
- Color: none
- Turbidity: clear
- Field Filtered YES / NO — Analyses: —
- Filter type: NA
- Odor/Sheen/NAPL:
- Duplicate Collected YES / NO + MS/MSD
- If yes, duplicate ID:
- Purge water disposal? to ground drummed other: non-haz

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
- Sp.Cond. +/- 3%
- DO +/- 10%
- ORP +/- 10 mV
- pH +/- 0.1 Std Units
- Temp. +/- 3%
- Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: S. Hay | Sample date: 9/17/09 | Well ID: DPW-210

Well location description: at Intersection of Longs Ave & E. Niag Street

Well Construction

Well diameter: 0.75"
Well measurement point: top of PVC
Roadbox condition: good-new.
Well screen interval:
Well depth: ~15'

Sampling Information

Initial depth to water: 10.49' Time: 1011
Sample intake depth:
Pump type and ID: penstaltic
Stabilized flow rate: not measured.
Stabilized flow rate = flow rate with no further drawdown

YSI SN#: 07M100241

Samples Collected

VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	1138	
Sp.Cond.	3.121	mS/cm
DO	4.68	mg/L
ORP	42.8	mV
pH	7.02	s.u.
Temp.	14.66	°C
Turb.	2.9	NTU

Depth to water: 10.34

Actual

~~Cumulative~~ Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
1018	—	NM	4.316	12.05	-64.9	7.22	16.38	1261.2
1023	0.25	10.42	4.610	14.10	-42.3	7.16	15.35	741.6
1028	0.50	10.37	4.491	12.99	-36.1	7.11	15.18	471.6
1033	0.6	10.43	4.340	11.77	-33.0	7.07	15.19	201.4
1038	0.8	10.42	4.194	10.90	-21.2	7.06	15.07	122.1
1043	1.0	10.39	4.103	10.01	-12.7	7.06	15.10	56.6
1048	1.2	10.38	4.028	9.45	-4.2	7.06	15.19	44.7
1053	1.4	10.37	3.788	8.55	9.1	7.05	15.02	22.1
1058	1.6	10.35	3.713	7.99	18.7	7.05	15.03	13.3
1103	1.8	10.35	3.611	4.38	25.3	7.04	14.97	9.0
1108	2.0	10.37	3.468	6.68	32.4	7.04	14.97	8.4
1113	2.2	10.34	3.365	6.19	37.7	7.03	15.01	5.3
1118	2.4	10.34	3.310	6.00	39.6	7.03	14.82	4.8
1123	2.6	10.33	3.218	5.53	41.7	7.03	14.86	3.7
1128	2.8	10.39	3.166	5.00	43.2	7.03	14.67	2.1
1133	3.0	10.34	3.134	4.74	43.1	7.02	14.70	1.8
1138	3.2	10.34	3.121	4.68	42.8	7.02	14.66	2.4
			✓	✓	✓	✓	✓	ok

Notes:

Sample Information:

Sample ID: DPW-210.
Sample Time: ~45. minutes
Color: none
Turbidity: clear
Field Filtered YES (NO) Analyses: NA
Filter type: NA
Odor/Sheen/NAPL: none observed.
Duplicate Collected YES (NO)
If yes, duplicate ID: NA
Purge water disposal? to ground (drummed) other: non-haz.

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume =
3.14 x (r)^2 x 7.48 gal/ft
where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 3%
DO +/- 10%
ORP +/- 10 mV
pH +/- 0.1 Std Units
Temp. +/- 3%
Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval
2 Minimize drop in water level and purge until parameters are stable
3 Disconnect flow thru cell during sampling
4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).
5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: 091220 - Gastown Former MGP | Sampling personnel: S. Hay | Sample date: 9/16/2009 | Well ID: DPW-211

Well location description: at intersection of Fillmore Ave & E. Niagara Falls

Well Construction
- Well diameter: 0.75"
- Well measurement point: top of PVC
- Roadbox condition: good - new.
- Well screen interval:
- Well depth: ~15'

Sampling Information
- Initial depth to water: 7.87' Time: 1355
- Sample intake depth: ~12'
- Pump type and ID: peristaltic.
- Stabilized flow rate: not measured.

Stabilized flow rate = flow rate with no further drawdown

YSI SN#: 07M100241 (Palms)

Samples Collected	
VOCs 8260	✓
SVOCs 8270	✓
VPH	
EPH	
Metals	
PCBs	
Other	

Field values at time of sample collection:

Time:	1450	
Sp.Cond.	27.64	mS/cm
DO	1.32	mg/L
ORP	2.4	mV
pH	6.83	s.u.
Temp.	14.79	°C
Turb.	4.3	NTU

Depth to water: NM

Cumulative Time (min.)	Volume (gal)	Water depth (ft)	Sp.Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	pH (s.u.)	Temp. (°C)	Turb. (NTU)
Typical Groundwater Values			0.05 to 5	0 to 4	-100 to +500	5 to 7	5 to 15	aim for <10
1405	—	NM	13.69	5.87	-6.5	7.40	19.42	189.8
1410	0.5	↓	27.51	0.72	-24.9	6.85	15.41	166.4
1415	0.75	↓	27.52	0.71	-21.6	6.84	15.42	112.8
1420	1.0	↓	27.54	0.64	-16.0	6.84	15.22	70.8
1425	1.25	↓	27.51	0.62	-10.6	6.83	15.11	49.4
1430	1.5	↓	27.50	0.65	-7.5	6.83	15.01	32.5
1435	1.75	↓	27.59	1.40	-4.0	6.83	14.99	19.9
1440	2.0	✓	27.68	1.38	-2.0	6.83	14.95	12.2
1450	2.25		27.64	1.32	2.4	6.83	14.79	4.3
					✓	✓		

Notes:

Sample Information:
- Sample ID: DPW-211
- Sample Time: ~ 45 minutes
- Color: none
- Turbidity: clear
- Field Filtered YES / NO
- Analyses: NA
- Filter type: NA
- Odor/Sheen/NAPL: none observed
- Duplicate Collected YES / NO
- If yes, duplicate ID: NA
- Purge water disposal? to ground drummed other: non-haz.

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
- Sp.Cond. +/- 3%
- DO +/- 10%
- ORP +/- 10 mV
- pH +/- 0.1 Std Units
- Temp. +/- 3%
- Turb. +/- 10% if values >1 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Appendix D

Laboratory Data Reports

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

12/11/08

Technical Report for

GEI Consultants, Inc.

NFG Gastown Tonawanda NY

082150

Accutest Job Number: M77234

Sampling Date: 09/18/08

Report to:

GEI Consultants, Inc.

TDaigle@geiconsultants.com

ATTN: Tom Daigle

Total number of pages in report: **11**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (2502) RI (00071) ME (MA0136) FL (E87579) NY (11791) NJ (MA926) PA (68-01121) NC (653) IL (200018) NAVY USACE

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Sample Summary

GEI Consultants, Inc.

Job No: M77234

NFG Gastown Tonawanda NY
Project No: 082150

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M77234-1	09/18/08	09:50	CM	09/19/08	AIR	Air	082150-72ENIA-SS1-

Sample Results

Report of Analysis

Accutest LabLink@90022 10:55 11-Dec-2008

Report of Analysis

Client Sample ID: 082150-72ENIA-SS1-
Lab Sample ID: M77234-1
Matrix: AIR - Air
Method: TO-15
Project: NFG Gastown Tonawanda NY

Date Sampled: 09/18/08
Date Received: 09/19/08
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q8687.D	1	09/23/08	PB	n/a	n/a	MSQ398
Run #2	Q8692.D	10	09/23/08	PB	n/a	n/a	MSQ398

	Initial Volume
Run #1	400 ml
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	30.5 [a]	5.0	ppbv		72.5 [a]	12	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	1.2	0.50	ppbv		3.8	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	2.8	0.50	ppbv		8.7	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	2.5	0.50	ppbv		8.6	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.24	0.20	ppbv		0.97	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.70	0.50	ppbv		3.5	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	0.59	0.50	ppbv		3.5	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 082150-72ENIA-SS1-
Lab Sample ID: M77234-1
Matrix: AIR - Air
Method: TO-15
Project: NFG Gastown Tonawanda NY

Date Sampled: 09/18/08
Date Received: 09/19/08
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	4.7	0.50	ppbv		8.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	8.3	0.50	ppbv		36	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	54.8 [a]	5.0	ppbv		269 [a]	25	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	3.0	0.50	ppbv		12	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	0.94	0.50	ppbv		3.3	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	0.78	0.50	ppbv		1.9	1.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	11.5	0.50	ppbv		33.9	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.75	0.50	ppbv		3.1	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
91-20-3	128.17	Naphthalene	130 [a]	5.0	ppbv		700 [a]	26	ug/m3
115-07-1	42	Propylene	1.4	0.50	ppbv		2.4	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	23.6	0.20	ppbv		129	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	153 [a]	5.0	ppbv		752 [a]	25	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	65.0 [a]	5.0	ppbv		320 [a]	25	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	92.14	Toluene	9.0	0.50	ppbv		34	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.1	0.50	ppbv		6.2	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	106.2	m,p-Xylene	44.2	0.50	ppbv		192	2.2	ug/m3
95-47-6	106.2	o-Xylene	37.2	0.50	ppbv		162	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	81.4	0.50	ppbv		354	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	254% [b]	121%	57-139%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	082150-72ENIA-SS1-		
Lab Sample ID:	M77234-1	**Date Sampled:**	09/18/08
Matrix:	AIR - Air	**Date Received:**	09/19/08
Method:	TO-15	**Percent Solids:**	n/a
Project:	NFG Gastown Tonawanda NY		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units

(a) Result is from Run# 2
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

CHAIN OF CUSTODY

ACCUTEST

Air Sampling Field Data Sheet

FED-EX Tracking #: | Bottle Order Control #: | PAGE 1 OF 1

Lab Quote #: | Lab Job #: M77234

Client / Reporting Information

Company Name: GEI Consultants
Address: 400 Unicorn Park Drive
City: Woburn State: MA Zip: 01801
Project Contact: Bill Simons E-mail: bsimons@GEIconsultants
Phone #: Fax #:
Sampler(s) Name(s): C. Morris

Project Name: NFG Gastown
Street:
City: Tonawanda State: NY
Project #: 082150
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 60 Maximum:
Stop: 60 Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: NM Maximum:
Stop: NM Minimum:
Other weather comment:

Requested Analysis

Standard TO-15 Reporting List + Naphthalene | MA DEP APH

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Standard TO-15 Reporting List + Naphthalene	MA DEP APH	
1	082150-TENIA-SS-1	SV	M149	6	MC120	9-18-08	0833	29	-	CM	9-18-08	0950	5	-	CM	X		

Turnaround Time (Business days)

Standard - 15 Days: X
10 Day:
5 Day:
3 Day:
2 Day:
1 Day:
Other:

Approved By: _____ Date: RUSH

Data Deliverable Information

Comm A:
Comm B:
Full T1:
Other:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2 GEI Lab	9-16-08 0800	2
3	9/19/08 1425	3	4		4
5		5	Custody Seal #		

SM013-01 (2/14/06)

Accutest Laboratories of New England

Tel: (50) 4 1-6200
Fax: (50)4 1-7753

M77234: Chain of Custody
Page 1 of 2

M77234: Chain of Custody
Page 2 of 2

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M77234 Laboratories

Frank D'Agostino

M77234

From: Frank D'Agostino
Sent: Wednesday, September 24, 2008 2:56 PM
To: 'Bill Simons'
Subject: RE: 4 Summa Cans - Tonawanda, NY

Hi Bill,

These air samples have been analyzed. The were received on 9/19/08 and run over the weekend before you sent the email to hold them. They saw the rush request on the coc and ran them.

The Accutest job numbers are, M77232, m77233, m77234, and M77235.

Thanks

Frank D'Agostino
Accutest Laboratories Of New England
495 Technology Center West, Building One Marlborough, MA 01752
Office: 1-508-481-6200 X212
Fax: 1-508-481-7753

Web: www.accutest.com
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-----Original Message-----
From: Bill Simons [mailto:Bsimons@geiconsultants.com]
Sent: Monday, September 22, 2008 1:52 PM
To: Frank D'Agostino
Cc: Steven Chervincky; Thomas Daigle
Subject: 4 Summa Cans - Tonawanda, NY

Hi Frank,

Please place the 4 Summa cans from Tonawanda, NY and received by Accutest on September 19, 2008 on hold.

Thank you,

- Bill

William F. Simons, P.G., LSP
Project Manager
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
(781) 721-4029 phone
(781) 507-6865 mobile
(781) 721-4073 fax
bsimons@geiconsultants.com

3.1 3

Summa Canister and Flow Controller Log

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY
Received: 09/19/08

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
M149	6	29.4	09/12/08	DFT	CP649	J13976.D	M77234-1	09/25/08	PB	5		-2.5	1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
MC120	09/12/08	DFT	80	1	09/25/08	PB	82

Accutest Bottle Order(s):
DT/9-12-08/GEI/GASTOWN MGP

Prep Date	Room Temp(F)	Bar Pres "Hg
09/12/08	70	29.92

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

05/17/10

Technical Report for

GEI Consultants, Inc.

NFG Gastown Tonawanda NY

082150

Accutest Job Number: M77234

Sampling Date: 09/18/08

Report to:

GEI Consultants, Inc.

TDaigle@geiconsultants.com

ATTN: Tom Daigle

Total number of pages in report: **21**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

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Sample Summary

GEI Consultants, Inc.

Job No: M77234

NFG Gastown Tonawanda NY
Project No: 082150

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M77234-1	09/18/08	09:50	CM	09/19/08	AIR	Air	082150-72ENIA-SS1-

Sample Results

Report of Analysis

Accutest LabLink@102040 11:34 17-May-2010

Report of Analysis

Client Sample ID: 082150-72ENIA-SS1-
Lab Sample ID: M77234-1
Matrix: AIR - Air
Method: TO-15
Project: NFG Gastown Tonawanda NY

Date Sampled: 09/18/08
Date Received: 09/19/08
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q8687.D	1	09/23/08	PB	n/a	n/a	MSQ398
Run #2	Q8692.D	10	09/23/08	PB	n/a	n/a	MSQ398

	Initial Volume
Run #1	400 ml
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	30.5 [a]	5.0	ppbv		72.5 [a]	12	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	78.11	Benzene	1.2	0.50	ppbv		3.8	1.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	94.94	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	2.8	0.50	ppbv		8.7	1.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	50.49	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	2.5	0.50	ppbv		8.6	1.7	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.24	0.20	ppbv		0.97	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	88	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.70	0.50	ppbv		3.5	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	147	p-Dichlorobenzene	0.59	0.50	ppbv		3.5	3.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 082150-72ENIA-SS1-
Lab Sample ID: M77234-1
Matrix: AIR - Air
Method: TO-15
Project: NFG Gastown Tonawanda NY

Date Sampled: 09/18/08
Date Received: 09/19/08
Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46	Ethanol	4.7	0.50	ppbv		8.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	8.3	0.50	ppbv		36	2.2	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	120.2	4-Ethyltoluene	54.8 [a]	5.0	ppbv		269 [a]	25	ug/m3
76-13-1	187.4	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	170.9	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	100.2	Heptane	3.0	0.50	ppbv		12	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	86.17	Hexane	0.94	0.50	ppbv		3.3	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	60	Isopropyl Alcohol	0.78	0.50	ppbv		1.9	1.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	72.11	Methyl ethyl ketone	11.5	0.50	ppbv		33.9	1.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.75	0.50	ppbv		3.1	2.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
91-20-3	128.17	Naphthalene	130 [a]	5.0	ppbv		700 [a]	26	ug/m3
115-07-1	42	Propylene	1.4	0.50	ppbv		2.4	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	23.6	0.20	ppbv		129	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	153 [a]	5.0	ppbv		752 [a]	25	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	65.0 [a]	5.0	ppbv		320 [a]	25	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	72	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	92.14	Toluene	9.0	0.50	ppbv		34	1.9	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.1	0.50	ppbv		6.2	2.8	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	106.2	m,p-Xylene	44.2	0.50	ppbv		192	2.2	ug/m3
95-47-6	106.2	o-Xylene	37.2	0.50	ppbv		162	2.2	ug/m3
1330-20-7	106.2	Xylenes (total)	81.4	0.50	ppbv		354	2.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	254% [b]	121%	57-139%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	082150-72ENIA-SS1-		
Lab Sample ID:	M77234-1	**Date Sampled:**	09/18/08
Matrix:	AIR - Air	**Date Received:**	09/19/08
Method:	TO-15	**Percent Solids:**	n/a
Project:	NFG Gastown Tonawanda NY		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units

(a) Result is from Run# 2
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

CHAIN OF CUSTODY

ACCUTEST

Air Sampling Field Data Sheet

FED-EX Tracking #: | Bottle Order Control #: | PAGE 1 OF 1

Lab Quote #: | Lab Job #: M77234

Client / Reporting Information

Company Name: GEI Consultants
Address: 400 Unicorn Park Drive
City: Woburn State: MA Zip: 01801
Project Contact: Bill Simons E-mail: bsimons@GEIconsultants
Phone #: Fax #:

Project Name: NFG Eastown
Street:
City: Tonawanda State: NY
Project #: 082150
Client Purchase Order #:

Sampler(s) Name(s): C. Morris

Weather Parameters

Temperature (Fahrenheit)
Start: 60 Maximum:
Stop: 60 Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: NM Maximum:
Stop: NM Minimum:
Other weather comment:

Requested Analysis

Standard TO-15 Reporting List + Naphthalene | MA DEP APH

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Standard TO-15 Reporting List + Naphthalene	MA DEP APH
-1	082150-TENIA-SS-1	SV	M149	6	MC120	9-18-08	0833	29	-	CM	9-18-08	0950	5	-	CM	X	

Turnaround Time (Business days)

Standard - 15 Days
10 Day
5 Day X
3 Day
2 Day
1 Day
Other

Approved By:
Date:
RUSH

Data Deliverable Information

Comm A
Comm B
Full T1
Other:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2 GEI Lab	9-18-08 0800	2
3	9/18/08 1425	3	4		4
5		5	Custody Seal #		

SM013-01 (2/14/06)

Accutest Laboratories of New England

Tel: (50) 4 1-6200
Fax: (50)4 1-7753

M77234: Chain of Custody
Page 1 of 1

Summa Canister and Flow Controller Log

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY
Received: 09/19/08

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
M149	6	29.4	09/12/08	DFT	CP649	J13976.D	M77234-1	09/25/08	PB	5		-2.5	1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
MC120	09/12/08	DFT	80	1	09/25/08	PB	82

Accutest Bottle Order(s):
DT/9-12-08/GEI/GASTOWN MGP

Prep Date	Room Temp(F)	Bar Pres "Hg
09/12/08	70	29.92

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ398-MB	Q8678.D	1	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.50	ppbv		ND	1.2	ug/m3
106-99-0	1,3-Butadiene	ND	0.50	ppbv		ND	1.1	ug/m3
71-43-2	Benzene	ND	0.50	ppbv		ND	1.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.50	ppbv		ND	3.3	ug/m3
75-25-2	Bromoform	ND	0.50	ppbv		ND	5.2	ug/m3
74-83-9	Bromomethane	ND	0.50	ppbv		ND	1.9	ug/m3
593-60-2	Bromoethene	ND	0.50	ppbv		ND	2.2	ug/m3
100-44-7	Benzyl Chloride	ND	0.50	ppbv		ND	2.6	ug/m3
75-15-0	Carbon disulfide	ND	0.50	ppbv		ND	1.6	ug/m3
108-90-7	Chlorobenzene	ND	0.50	ppbv		ND	2.3	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.50	ppbv		ND	2.4	ug/m3
74-87-3	Chloromethane	ND	0.50	ppbv		ND	1.0	ug/m3
107-05-1	3-Chloropropene	ND	0.50	ppbv		ND	1.6	ug/m3
95-49-8	2-Chlorotoluene	ND	0.50	ppbv		ND	2.6	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.50	ppbv		ND	1.7	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.50	ppbv		ND	3.8	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.50	ppbv		ND	2.3	ug/m3
123-91-1	1,4-Dioxane	ND	0.50	ppbv		ND	1.8	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.50	ppbv		ND	2.5	ug/m3
124-48-1	Dibromochloromethane	ND	0.50	ppbv		ND	4.3	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.50	ppbv		ND	3.0	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ppbv		ND	2.3	ug/m3
64-17-5	Ethanol	ND	0.50	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.50	ppbv		ND	2.2	ug/m3
141-78-6	Ethyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
622-96-8	4-Ethyltoluene	ND	0.50	ppbv		ND	2.5	ug/m3

Method Blank Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ398-MB	Q8678.D	1	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.50	ppbv		ND	3.8	ug/m3
76-14-2	Freon 114	ND	0.50	ppbv		ND	3.5	ug/m3
142-82-5	Heptane	ND	0.50	ppbv		ND	2.0	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.50	ppbv		ND	5.3	ug/m3
110-54-3	Hexane	ND	0.50	ppbv		ND	1.8	ug/m3
591-78-6	2-Hexanone	ND	0.50	ppbv		ND	2.0	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.50	ppbv		ND	1.2	ug/m3
75-09-2	Methylene chloride	ND	0.50	ppbv		ND	1.7	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.50	ppbv		ND	1.5	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.50	ppbv		ND	2.0	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	ppbv		ND	1.8	ug/m3
91-20-3	Naphthalene	ND	0.50	ppbv		ND	2.6	ug/m3
115-07-1	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.50	ppbv		ND	2.1	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ppbv		ND	3.7	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ppbv		ND	2.5	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.50	ppbv		ND	2.3	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.50	ppbv		ND	1.5	ug/m3
127-18-4	Tetrachloroethylene	ND	0.20	ppbv		ND	1.4	ug/m3
109-99-9	Tetrahydrofuran	ND	0.50	ppbv		ND	1.5	ug/m3
108-88-3	Toluene	ND	0.50	ppbv		ND	1.9	ug/m3
79-01-6	Trichloroethylene	ND	0.20	ppbv		ND	1.1	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.50	ppbv		ND	2.8	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.50	ppbv		ND	1.8	ug/m3
	m,p-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
95-47-6	o-Xylene	ND	0.50	ppbv		ND	2.2	ug/m3
1330-20-7	Xylenes (total)	ND	0.50	ppbv		ND	2.2	ug/m3

Method Blank Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ398-MB	Q8678.D	1	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	91%	57-139%

Blank Spike Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ398-BS	Q8676A.D	1	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
67-64-1	Acetone	10	8.8	88	70-130
106-99-0	1,3-Butadiene	10	10.3	103	70-130
71-43-2	Benzene	10	8.8	88	70-130
75-27-4	Bromodichloromethane	10	9.9	99	70-130
75-25-2	Bromoform	10	8.4	84	70-130
74-83-9	Bromomethane	10	9.0	90	70-130
593-60-2	Bromoethene	10	9.3	93	70-130
100-44-7	Benzyl Chloride	10	9.5	95	70-130
75-15-0	Carbon disulfide	10	8.9	89	70-130
108-90-7	Chlorobenzene	10	8.7	87	70-130
75-00-3	Chloroethane	10	9.9	99	70-130
67-66-3	Chloroform	10	9.2	92	70-130
74-87-3	Chloromethane	10	9.5	95	70-130
107-05-1	3-Chloropropene	10	10.3	103	70-130
95-49-8	2-Chlorotoluene	10	10.0	100	70-130
56-23-5	Carbon tetrachloride	10	8.8	88	70-130
110-82-7	Cyclohexane	10	9.2	92	70-130
75-34-3	1,1-Dichloroethane	10	9.3	93	70-130
75-35-4	1,1-Dichloroethylene	10	8.8	88	70-130
106-93-4	1,2-Dibromoethane	10	8.7	87	70-130
107-06-2	1,2-Dichloroethane	10	9.6	96	70-130
78-87-5	1,2-Dichloropropane	10	9.6	96	70-130
123-91-1	1,4-Dioxane	10	12.2	122	70-130
75-71-8	Dichlorodifluoromethane	10	9.8	98	70-130
124-48-1	Dibromochloromethane	10	8.5	85	70-130
156-60-5	trans-1,2-Dichloroethylene	10	9.1	91	70-130
156-59-2	cis-1,2-Dichloroethylene	10	8.9	89	70-130
10061-01-5	cis-1,3-Dichloropropene	10	10.1	101	70-130
541-73-1	m-Dichlorobenzene	10	8.3	83	70-130
95-50-1	o-Dichlorobenzene	10	8.4	84	70-130
106-46-7	p-Dichlorobenzene	10	8.3	83	70-130
10061-02-6	trans-1,3-Dichloropropene	10	10.1	101	70-130
64-17-5	Ethanol	10	11.8	118	70-130
100-41-4	Ethylbenzene	10	8.7	87	70-130
141-78-6	Ethyl Acetate	10	16.3	163* [a]	70-130
622-96-8	4-Ethyltoluene	10	9.6	96	70-130

Blank Spike Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ398-BS	Q8676A.D	1	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	Limits
76-13-1	Freon 113	10	8.1	81	70-130
76-14-2	Freon 114	10	8.7	87	70-130
142-82-5	Heptane	10	10.5	105	70-130
87-68-3	Hexachlorobutadiene	10	10.1	101	70-130
110-54-3	Hexane	10	9.7	97	70-130
591-78-6	2-Hexanone	10	12.1	121	70-130
67-63-0	Isopropyl Alcohol	10	11.2	112	70-130
75-09-2	Methylene chloride	10	8.7	87	70-130
78-93-3	Methyl ethyl ketone	10	10.2	102	70-130
108-10-1	Methyl Isobutyl Ketone	10	10.1	101	70-130
1634-04-4	Methyl Tert Butyl Ether	10	9.2	92	70-130
91-20-3	Naphthalene		4.9		70-130
115-07-1	Propylene	10	11.3	113	70-130
100-42-5	Styrene	10	8.3	83	70-130
71-55-6	1,1,1-Trichloroethane	10	8.8	88	70-130
79-34-5	1,1,2,2-Tetrachloroethane	10	9.4	94	70-130
79-00-5	1,1,2-Trichloroethane	10	9.4	94	70-130
120-82-1	1,2,4-Trichlorobenzene	10	10.2	102	70-130
95-63-6	1,2,4-Trimethylbenzene	10	8.5	85	70-130
108-67-8	1,3,5-Trimethylbenzene	10	8.9	89	70-130
540-84-1	2,2,4-Trimethylpentane	10	10.0	100	70-130
75-65-0	Tertiary Butyl Alcohol	10	11.4	114	70-130
127-18-4	Tetrachloroethylene	10	7.4	74	70-130
109-99-9	Tetrahydrofuran	10	10.9	109	70-130
108-88-3	Toluene	10	9.2	92	70-130
79-01-6	Trichloroethylene	10	9.4	94	70-130
75-69-4	Trichlorofluoromethane	10	8.8	88	70-130
75-01-4	Vinyl chloride	10	9.6	96	70-130
108-05-4	Vinyl Acetate	10	8.7	87	70-130
	m,p-Xylene	20	16.8	84	70-130
95-47-6	o-Xylene	10	8.1	81	70-130
1330-20-7	Xylenes (total)	30	24.9	83	70-130

Blank Spike Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSQ398-BS	Q8676A.D	1	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	57-139%

(a) Outside control limits. Associated samples are non-detect for this compound.

Duplicate Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M77112-1DUP	Q8681.D	10	09/22/08	PB	n/a	n/a	MSQ398
M77112-1	Q8680.D	10	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Compound	M77112-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	38.6		36.2		6	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	20
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	ND		ND		nc	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	222		210		6	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

Duplicate Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M77112-1DUP	Q8681.D	10	09/22/08	PB	n/a	n/a	MSQ398
M77112-1	Q8680.D	10	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Compound	M77112-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	28.6		28.9		1	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	ND		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
91-20-3	Naphthalene	ND		ND		nc	20
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	91.8		80.7		13	25
75-65-0	Tertiary Butyl Alcohol	9.0		10.1		12	25
127-18-4	Tetrachloroethylene	ND		ND		nc	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	4.2		3.8	J	10	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

Duplicate Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M77112-1DUP	Q8681.D	10	09/22/08	PB	n/a	n/a	MSQ398
M77112-1	Q8680.D	10	09/22/08	PB	n/a	n/a	MSQ398

The QC reported here applies to the following samples: **Method:** TO-15

M77234-1

CAS No.	Surrogate Recoveries	DUP	M77112-1	Limits
460-00-4	4-Bromofluorobenzene	93%	91%	57-139%

Volatile Surrogate Recovery Summary

Job Number: M77234
Account: GEI GEI Consultants, Inc.
Project: NFG Gastown Tonawanda NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
M77234-1	Q8692.D	121.0
M77234-1	Q8687.D	254.0* [a]
M77112-1DUP	Q8681.D	93.0
MSQ398-BS	Q8676A.D	105.0
MSQ398-MB	Q8678.D	91.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	57-139%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ANALYTICAL REPORT

Lab Number:	L0909315
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Raymond Siegener
Project Name:	Not Specified
Project Number:	091220
Report Date:	08/06/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: Not Specified
Project Number: 091220

Lab Number: L0909315
Report Date: 08/06/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0909315-03	CAN 382	Not Specified	07/09/09 00:00
L0909315-05	CAN 481	Not Specified	07/09/09 00:00
L0909315-06	CAN 542	Not Specified	07/09/09 00:00
L0909315-07	CAN 137	Not Specified	07/09/09 00:00
L0909315-08	CAN 164	Not Specified	07/09/09 00:00
L0909315-09	CAN 522	Not Specified	07/09/09 00:00
L0909315-10	CAN 140	Not Specified	07/09/09 00:00
L0909315-11	CAN 570	Not Specified	07/09/09 00:00
L0909315-12	CAN 1718	Not Specified	07/09/09 00:00
L0909315-13	CAN 156	Not Specified	07/09/09 00:00
L0909315-14	CAN 395	Not Specified	07/09/09 00:00
L0909315-15	CAN 543	Not Specified	07/09/09 00:00
L0909315-16	CAN 455	Not Specified	07/09/09 00:00
L0909315-17	CAN 176	Not Specified	07/09/09 00:00

Project Name: Not Specified
Project Number: 091220

Lab Number: L0909315
Report Date: 08/06/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

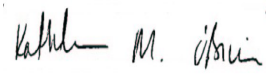
Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air (SIM PIANO)

The method blank (WG373235-3) has reportable concentrations of Benzothiophene, 1-Methylnaphthalene and 2-Methylnaphthalene. Associated samples were non-detect, therefore no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative Date: 08/06/09

AIR

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/09 20:41
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 20:41
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-03
Client ID: CAN 382
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/09 21:51
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 21:51
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-05
Client ID: CAN 481
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/09 22:29
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 22:29
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-06
Client ID: CAN 542
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/09 23:03
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 23:03
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-07
Client ID: CAN 137
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/09 23:38
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 23:38
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-08
Client ID: CAN 164
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 00:12
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 00:12
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-09
Client ID: CAN 522
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 00:49
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 00:49
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-10
Client ID: CAN 140
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 01:22
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 01:22
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-11
Client ID: CAN 570
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 01:55
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 01:55
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-12
Client ID: CAN 1718
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 02:30
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 02:30
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-13
Client ID: CAN 156
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 03:03
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 03:03
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-14
Client ID: CAN 395
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 03:36
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 03:36
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-15
Client ID: CAN 543
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 04:11
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 04:11
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-16
Client ID: CAN 455
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 04:49
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 04:49
Analyst: RY

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0909315

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0909315-17
Client ID: CAN 176
Sample Location:

Date Collected: 07/09/09 00:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 03,05-17 Batch: WG373234-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 03,05-17 Batch: WG373234-3						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 03,05-17 Batch: WG373234-3						
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 03,05-17 Batch: WG373234-3						
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name: Not Specified
Project Number: 091220
Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 03,05-17 Batch: WG373235-3						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name: Not Specified
Project Number: 091220
Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 03,05-17 Batch: WG373235-3						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1

Project Name: Not Specified
Project Number: 091220
Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 03,05-17 Batch: WG373235-3						
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	0.029	0.025	0.159	0.137		1
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1

Project Name: Not Specified
Project Number: 091220
Lab Number: L0909315
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 18:37

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 03,05-17 Batch: WG373235-3						
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	0.063	0.050	0.366	0.291		1
2-Methylnaphthalene	0.093	0.050	0.541	0.291		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0909315
Report Date: 08/06/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0909315-03A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-05A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-06A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-07A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-08A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-09A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-10A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-11A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-12A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-13A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-14A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-15A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-16A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0909315-17A	Canister - 2.7 Liter	NA	NA		NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)

*Hold days indicated by values in parentheses

Project Name:	Not Specified	**Lab Number:**	L0909315
Project Number:	091220	**Report Date:**	08/06/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*****	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name:	Not Specified	**Lab Number:**	L0909315
Project Number:	091220	**Report Date:**	08/06/09

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

080609I6:07

CCP #	Can ID #	Date Cleaned
1	491	7/9/09
2	150B	
3	382	
4	321	
5	481	
6	542	
7	137	
8	164	
9	522	
10	140	
11	570	
12	1718	
13	156	
14	395	
15	543	
16	455	
17	176	
18	117	

Can Cleaner # 1 Final Pressure., mTorr <50

Shelf # 8 Initials: CB

Can size, L 2.7L

*individual can certs

Canister QC Data

Login #	Can ID	Analysis	Date Approved
L0909315		TO15-LL+Naph	
		PIANO	

Submitted for analysis by: Lisa Bruce Date: 7/9/09

Form No.:117-07

ANALYTICAL REPORT

Lab Number:	L0910460
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Raymond Siegener
Project Name:	GASTOWN MGP
Project Number:	091220
Report Date:	08/10/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0910460-01	DPW-211 (4-7.7')	TONAWANDA, NY	07/28/09 09:20
L0910460-02	DPW-206 (12.4-14.4')	TONAWANDA, NY	07/28/09 11:10
L0910460-03	DPW-206 (4-6')	TONAWANDA, NY	07/28/09 10:45
L0910460-04	DPW-204 (0.8-3.0')	TONAWANDA, NY	07/28/09 16:30
L0910460-05	DPW-207 (3-5')	TONAWANDA, NY	07/29/09 10:30
L0910460-06	DPW-202 (4-6')	TONAWANDA, NY	07/29/09 14:30
L0910460-07	DPW-210 (0.5-4')	TONAWANDA, NY	07/29/09 12:00

Project Name:	GASTOWN MGP	**Lab Number:**	L0910460
Project Number:	091220	**Report Date:**	08/10/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This is a final report. This final report replaces the partial report issued August 7, 2009. The results for all requested analyses are reported.

Sample Receipt

At the client's request, only samples "DPW-206 (12.4-14.4')" and "DPW-202 (4-6')", were analyzed for Volatile Organics, Semivolatile Organics, and TPH.

Project Name:	GASTOWN MGP	**Lab Number:**	L0910460
Project Number:	091220	**Report Date:**	08/10/09

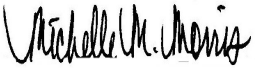
Case Narrative (continued)

Semivolatile Organics

The WG373654-3 LCSD recovery, associated with L0910460-02, was above the acceptance criteria for 2,4-Dinitrotoluene (95%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

The WG374492-2/-3 LCS/LCSD recoveries, associated with L0910460-06, were above the acceptance criteria for 2,4-Dinitrotoluene (99%/103%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative Date: 08/10/09

ORGANICS

VOLATILES

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-02	Date Collected:	07/28/09 11:10
Client ID:	DPW-206 (12.4-14.4')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260B		
Analytical Date:	08/06/09 20:48		
Analyst:	PD		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/kg	28	1
1,1-Dichloroethane	ND		ug/kg	4.2	1
Chloroform	ND		ug/kg	4.2	1
Carbon tetrachloride	ND		ug/kg	2.8	1
1,2-Dichloropropane	ND		ug/kg	9.7	1
Dibromochloromethane	ND		ug/kg	2.8	1
1,1,2-Trichloroethane	ND		ug/kg	4.2	1
Tetrachloroethene	ND		ug/kg	2.8	1
Chlorobenzene	ND		ug/kg	2.8	1
Trichlorofluoromethane	ND		ug/kg	14	1
1,2-Dichloroethane	ND		ug/kg	2.8	1
1,1,1-Trichloroethane	ND		ug/kg	2.8	1
Bromodichloromethane	ND		ug/kg	2.8	1
trans-1,3-Dichloropropene	ND		ug/kg	2.8	1
cis-1,3-Dichloropropene	ND		ug/kg	2.8	1
1,1-Dichloropropene	ND		ug/kg	14	1
Bromoform	ND		ug/kg	11	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.8	1
Benzene	ND		ug/kg	2.8	1
Toluene	ND		ug/kg	4.2	1
Ethylbenzene	ND		ug/kg	2.8	1
Chloromethane	ND		ug/kg	14	1
Bromomethane	ND		ug/kg	5.6	1
Vinyl chloride	ND		ug/kg	5.6	1
Chloroethane	ND		ug/kg	5.6	1
1,1-Dichloroethene	ND		ug/kg	2.8	1
trans-1,2-Dichloroethene	ND		ug/kg	4.2	1
Trichloroethene	ND		ug/kg	2.8	1
1,2-Dichlorobenzene	ND		ug/kg	14	1
1,3-Dichlorobenzene	ND		ug/kg	14	1

Project Name: GASTOWN MGP **Lab Number:** L0910460

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-02 Date Collected: 07/28/09 11:10

Client ID: DPW-206 (12.4-14.4') Date Received: 07/31/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/kg	14	1
Methyl tert butyl ether	ND		ug/kg	5.6	1
p/m-Xylene	ND		ug/kg	5.6	1
o-Xylene	ND		ug/kg	5.6	1
cis-1,2-Dichloroethene	ND		ug/kg	2.8	1
Dibromomethane	ND		ug/kg	28	1
Styrene	ND		ug/kg	5.6	1
Dichlorodifluoromethane	ND		ug/kg	28	1
Acetone	ND		ug/kg	28	1
Carbon disulfide	ND		ug/kg	28	1
2-Butanone	ND		ug/kg	28	1
Vinyl acetate	ND		ug/kg	28	1
4-Methyl-2-pentanone	ND		ug/kg	28	1
1,2,3-Trichloropropane	ND		ug/kg	28	1
2-Hexanone	ND		ug/kg	28	1
Bromochloromethane	ND		ug/kg	14	1
2,2-Dichloropropane	ND		ug/kg	14	1
1,2-Dibromoethane	ND		ug/kg	11	1
1,3-Dichloropropane	ND		ug/kg	14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.8	1
Bromobenzene	ND		ug/kg	14	1
n-Butylbenzene	ND		ug/kg	2.8	1
sec-Butylbenzene	ND		ug/kg	2.8	1
tert-Butylbenzene	ND		ug/kg	14	1
o-Chlorotoluene	ND		ug/kg	14	1
p-Chlorotoluene	ND		ug/kg	14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	14	1
Hexachlorobutadiene	ND		ug/kg	14	1
Isopropylbenzene	ND		ug/kg	2.8	1
p-Isopropyltoluene	ND		ug/kg	2.8	1
Naphthalene	ND		ug/kg	14	1
Acrylonitrile	ND		ug/kg	28	1
n-Propylbenzene	ND		ug/kg	2.8	1
1,2,3-Trichlorobenzene	ND		ug/kg	14	1
1,2,4-Trichlorobenzene	ND		ug/kg	14	1
1,3,5-Trimethylbenzene	ND		ug/kg	14	1
1,2,4-Trimethylbenzene	ND		ug/kg	14	1

Project Name: GASTOWN MGP **Lab Number:** L0910460

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-02 Date Collected: 07/28/09 11:10

Client ID: DPW-206 (12.4-14.4') Date Received: 07/31/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/kg	11	1
4-Ethyltoluene	ND		ug/kg	11	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	11	1
Ethyl ether	ND		ug/kg	14	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	14	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	74		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	84		70-130

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-06	Date Collected:	07/29/09 14:30
Client ID:	DPW-202 (4-6')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260B		
Analytical Date:	08/10/09 10:25		
Analyst:	PD		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/kg	31	1
1,1-Dichloroethane	ND		ug/kg	4.7	1
Chloroform	ND		ug/kg	4.7	1
Carbon tetrachloride	ND		ug/kg	3.1	1
1,2-Dichloropropane	ND		ug/kg	11	1
Dibromochloromethane	ND		ug/kg	3.1	1
1,1,2-Trichloroethane	ND		ug/kg	4.7	1
Tetrachloroethene	ND		ug/kg	3.1	1
Chlorobenzene	ND		ug/kg	3.1	1
Trichlorofluoromethane	ND		ug/kg	16	1
1,2-Dichloroethane	ND		ug/kg	3.1	1
1,1,1-Trichloroethane	ND		ug/kg	3.1	1
Bromodichloromethane	ND		ug/kg	3.1	1
trans-1,3-Dichloropropene	ND		ug/kg	3.1	1
cis-1,3-Dichloropropene	ND		ug/kg	3.1	1
1,1-Dichloropropene	ND		ug/kg	16	1
Bromoform	ND		ug/kg	12	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.1	1
Benzene	ND		ug/kg	3.1	1
Toluene	ND		ug/kg	4.7	1
Ethylbenzene	ND		ug/kg	3.1	1
Chloromethane	ND		ug/kg	16	1
Bromomethane	ND		ug/kg	6.2	1
Vinyl chloride	ND		ug/kg	6.2	1
Chloroethane	ND		ug/kg	6.2	1
1,1-Dichloroethene	ND		ug/kg	3.1	1
trans-1,2-Dichloroethene	ND		ug/kg	4.7	1
Trichloroethene	ND		ug/kg	3.1	1
1,2-Dichlorobenzene	ND		ug/kg	16	1
1,3-Dichlorobenzene	ND		ug/kg	16	1

Project Name: GASTOWN MGP **Lab Number:** L0910460

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-06 Date Collected: 07/29/09 14:30

Client ID: DPW-202 (4-6') Date Received: 07/31/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/kg	16	1
Methyl tert butyl ether	ND		ug/kg	6.2	1
p/m-Xylene	ND		ug/kg	6.2	1
o-Xylene	ND		ug/kg	6.2	1
cis-1,2-Dichloroethene	ND		ug/kg	3.1	1
Dibromomethane	ND		ug/kg	31	1
Styrene	ND		ug/kg	6.2	1
Dichlorodifluoromethane	ND		ug/kg	31	1
Acetone	ND		ug/kg	31	1
Carbon disulfide	ND		ug/kg	31	1
2-Butanone	ND		ug/kg	31	1
Vinyl acetate	ND		ug/kg	31	1
4-Methyl-2-pentanone	ND		ug/kg	31	1
1,2,3-Trichloropropane	ND		ug/kg	31	1
2-Hexanone	ND		ug/kg	31	1
Bromochloromethane	ND		ug/kg	16	1
2,2-Dichloropropane	ND		ug/kg	16	1
1,2-Dibromoethane	ND		ug/kg	12	1
1,3-Dichloropropane	ND		ug/kg	16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	3.1	1
Bromobenzene	ND		ug/kg	16	1
n-Butylbenzene	ND		ug/kg	3.1	1
sec-Butylbenzene	ND		ug/kg	3.1	1
tert-Butylbenzene	ND		ug/kg	16	1
o-Chlorotoluene	ND		ug/kg	16	1
p-Chlorotoluene	ND		ug/kg	16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	16	1
Hexachlorobutadiene	ND		ug/kg	16	1
Isopropylbenzene	ND		ug/kg	3.1	1
p-Isopropyltoluene	ND		ug/kg	3.1	1
Naphthalene	ND		ug/kg	16	1
Acrylonitrile	ND		ug/kg	31	1
n-Propylbenzene	ND		ug/kg	3.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	16	1
1,2,4-Trichlorobenzene	ND		ug/kg	16	1
1,3,5-Trimethylbenzene	ND		ug/kg	16	1
1,2,4-Trimethylbenzene	ND		ug/kg	16	1

Project Name: GASTOWN MGP **Lab Number:** L0910460

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-06 Date Collected: 07/29/09 14:30

Client ID: DPW-202 (4-6') Date Received: 07/31/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/kg	12	1
4-Ethyltoluene	ND		ug/kg	12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	12	1
Ethyl ether	ND		ug/kg	16	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	78		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	71		70-130

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/06/09 12:19
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG374367-3				
Methylene chloride	ND		ug/kg	25
1,1-Dichloroethane	ND		ug/kg	3.8
Chloroform	ND		ug/kg	3.8
Carbon tetrachloride	ND		ug/kg	2.5
1,2-Dichloropropane	ND		ug/kg	8.8
Dibromochloromethane	ND		ug/kg	2.5
1,1,2-Trichloroethane	ND		ug/kg	3.8
Tetrachloroethene	ND		ug/kg	2.5
Chlorobenzene	ND		ug/kg	2.5
Trichlorofluoromethane	ND		ug/kg	12
1,2-Dichloroethane	ND		ug/kg	2.5
1,1,1-Trichloroethane	ND		ug/kg	2.5
Bromodichloromethane	ND		ug/kg	2.5
trans-1,3-Dichloropropene	ND		ug/kg	2.5
cis-1,3-Dichloropropene	ND		ug/kg	2.5
1,1-Dichloropropene	ND		ug/kg	12
Bromoform	ND		ug/kg	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.5
Benzene	ND		ug/kg	2.5
Toluene	ND		ug/kg	3.8
Ethylbenzene	ND		ug/kg	2.5
Chloromethane	ND		ug/kg	12
Bromomethane	ND		ug/kg	5.0
Vinyl chloride	ND		ug/kg	5.0
Chloroethane	ND		ug/kg	5.0
1,1-Dichloroethene	ND		ug/kg	2.5
trans-1,2-Dichloroethene	ND		ug/kg	3.8
Trichloroethene	ND		ug/kg	2.5
1,2-Dichlorobenzene	ND		ug/kg	12
1,3-Dichlorobenzene	ND		ug/kg	12
1,4-Dichlorobenzene	ND		ug/kg	12

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/06/09 12:19
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG374367-3				
Methyl tert butyl ether	ND		ug/kg	5.0
p/m-Xylene	ND		ug/kg	5.0
o-Xylene	ND		ug/kg	5.0
cis-1,2-Dichloroethene	ND		ug/kg	2.5
Dibromomethane	ND		ug/kg	25
Styrene	ND		ug/kg	5.0
Dichlorodifluoromethane	ND		ug/kg	25
Acetone	ND		ug/kg	25
Carbon disulfide	ND		ug/kg	25
2-Butanone	ND		ug/kg	25
Vinyl acetate	ND		ug/kg	25
4-Methyl-2-pentanone	ND		ug/kg	25
1,2,3-Trichloropropane	ND		ug/kg	25
2-Hexanone	ND		ug/kg	25
Bromochloromethane	ND		ug/kg	12
2,2-Dichloropropane	ND		ug/kg	12
1,2-Dibromoethane	ND		ug/kg	10
1,3-Dichloropropane	ND		ug/kg	12
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.5
Bromobenzene	ND		ug/kg	12
n-Butylbenzene	ND		ug/kg	2.5
sec-Butylbenzene	ND		ug/kg	2.5
tert-Butylbenzene	ND		ug/kg	12
o-Chlorotoluene	ND		ug/kg	12
p-Chlorotoluene	ND		ug/kg	12
1,2-Dibromo-3-chloropropane	ND		ug/kg	12
Hexachlorobutadiene	ND		ug/kg	12
Isopropylbenzene	ND		ug/kg	2.5
p-Isopropyltoluene	ND		ug/kg	2.5
Naphthalene	ND		ug/kg	12
Acrylonitrile	ND		ug/kg	25

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/06/09 12:19
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG374367-3				
n-Propylbenzene	ND		ug/kg	2.5
1,2,3-Trichlorobenzene	ND		ug/kg	12
1,2,4-Trichlorobenzene	ND		ug/kg	12
1,3,5-Trimethylbenzene	ND		ug/kg	12
1,2,4-Trimethylbenzene	ND		ug/kg	12
1,4-Diethylbenzene	ND		ug/kg	10
4-Ethyltoluene	ND		ug/kg	10
1,2,4,5-Tetramethylbenzene	ND		ug/kg	10
Ethyl ether	ND		ug/kg	12
trans-1,4-Dichloro-2-butene	ND		ug/kg	12

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	94		70-130

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/10/09 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG374598-3				
Methylene chloride	ND		ug/kg	25
1,1-Dichloroethane	ND		ug/kg	3.8
Chloroform	ND		ug/kg	3.8
Carbon tetrachloride	ND		ug/kg	2.5
1,2-Dichloropropane	ND		ug/kg	8.8
Dibromochloromethane	ND		ug/kg	2.5
1,1,2-Trichloroethane	ND		ug/kg	3.8
Tetrachloroethene	ND		ug/kg	2.5
Chlorobenzene	ND		ug/kg	2.5
Trichlorofluoromethane	ND		ug/kg	12
1,2-Dichloroethane	ND		ug/kg	2.5
1,1,1-Trichloroethane	ND		ug/kg	2.5
Bromodichloromethane	ND		ug/kg	2.5
trans-1,3-Dichloropropene	ND		ug/kg	2.5
cis-1,3-Dichloropropene	ND		ug/kg	2.5
1,1-Dichloropropene	ND		ug/kg	12
Bromoform	ND		ug/kg	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.5
Benzene	ND		ug/kg	2.5
Toluene	ND		ug/kg	3.8
Ethylbenzene	ND		ug/kg	2.5
Chloromethane	ND		ug/kg	12
Bromomethane	ND		ug/kg	5.0
Vinyl chloride	ND		ug/kg	5.0
Chloroethane	ND		ug/kg	5.0
1,1-Dichloroethene	ND		ug/kg	2.5
trans-1,2-Dichloroethene	ND		ug/kg	3.8
Trichloroethene	ND		ug/kg	2.5
1,2-Dichlorobenzene	ND		ug/kg	12
1,3-Dichlorobenzene	ND		ug/kg	12
1,4-Dichlorobenzene	ND		ug/kg	12

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/10/09 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG374598-3				
Methyl tert butyl ether	ND		ug/kg	5.0
p/m-Xylene	ND		ug/kg	5.0
o-Xylene	ND		ug/kg	5.0
cis-1,2-Dichloroethene	ND		ug/kg	2.5
Dibromomethane	ND		ug/kg	25
Styrene	ND		ug/kg	5.0
Dichlorodifluoromethane	ND		ug/kg	25
Acetone	ND		ug/kg	25
Carbon disulfide	ND		ug/kg	25
2-Butanone	ND		ug/kg	25
Vinyl acetate	ND		ug/kg	25
4-Methyl-2-pentanone	ND		ug/kg	25
1,2,3-Trichloropropane	ND		ug/kg	25
2-Hexanone	ND		ug/kg	25
Bromochloromethane	ND		ug/kg	12
2,2-Dichloropropane	ND		ug/kg	12
1,2-Dibromoethane	ND		ug/kg	10
1,3-Dichloropropane	ND		ug/kg	12
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.5
Bromobenzene	ND		ug/kg	12
n-Butylbenzene	ND		ug/kg	2.5
sec-Butylbenzene	ND		ug/kg	2.5
tert-Butylbenzene	ND		ug/kg	12
o-Chlorotoluene	ND		ug/kg	12
p-Chlorotoluene	ND		ug/kg	12
1,2-Dibromo-3-chloropropane	ND		ug/kg	12
Hexachlorobutadiene	ND		ug/kg	12
Isopropylbenzene	ND		ug/kg	2.5
p-Isopropyltoluene	ND		ug/kg	2.5
Naphthalene	ND		ug/kg	12
Acrylonitrile	ND		ug/kg	25

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/10/09 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG374598-3				
n-Propylbenzene	ND		ug/kg	2.5
1,2,3-Trichlorobenzene	ND		ug/kg	12
1,2,4-Trichlorobenzene	ND		ug/kg	12
1,3,5-Trimethylbenzene	ND		ug/kg	12
1,2,4-Trimethylbenzene	ND		ug/kg	12
1,4-Diethylbenzene	ND		ug/kg	10
4-Ethyltoluene	ND		ug/kg	10
1,2,4,5-Tetramethylbenzene	ND		ug/kg	10
Ethyl ether	ND		ug/kg	12
trans-1,4-Dichloro-2-butene	ND		ug/kg	12

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	73		70-130
Toluene-d8	83		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	72		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910460

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG374367-1 WG374367-2					
Chlorobenzene	104	102	60-133	2	30
Benzene	98	96	66-142	2	30
Toluene	96	94	59-139	2	30
1,1-Dichloroethene	119	112	59-172	6	30
Trichloroethene	103	101	62-137	2	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		87		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	88		90		70-130
Dibromofluoromethane	101		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910460

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG374598-1 WG374598-2					
Chlorobenzene	99	97	60-133	2	30
Benzene	102	99	66-142	3	30
Toluene	99	96	59-139	3	30
1,1-Dichloroethene	106	99	59-172	7	30
Trichloroethene	102	99	62-137	3	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		79		70-130
Toluene-d8	88		87		70-130
4-Bromofluorobenzene	108		108		70-130
Dibromofluoromethane	80		83		70-130

SEMIVOLATILES

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-02	Date Collected:	07/28/09 11:10
Client ID:	DPW-206 (12.4-14.4')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270C	Extraction Date:	08/03/09 14:53
Analytical Date:	08/04/09 21:18		
Analyst:	AK		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/kg	370	1
Bis(2-chloroethyl)ether	ND		ug/kg	370	1
1,2-Dichlorobenzene	ND		ug/kg	370	1
1,3-Dichlorobenzene	ND		ug/kg	370	1
1,4-Dichlorobenzene	ND		ug/kg	370	1
3,3'-Dichlorobenzidine	ND		ug/kg	740	1
2,4-Dinitrotoluene	ND		ug/kg	370	1
2,6-Dinitrotoluene	ND		ug/kg	370	1
4-Chlorophenyl phenyl ether	ND		ug/kg	370	1
4-Bromophenyl phenyl ether	ND		ug/kg	370	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	370	1
Bis(2-chloroethoxy)methane	ND		ug/kg	370	1
Hexachlorocyclopentadiene	ND		ug/kg	740	1
Isophorone	ND		ug/kg	370	1
Nitrobenzene	ND		ug/kg	370	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1100	1
n-Nitrosodi-n-propylamine	ND		ug/kg	370	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	740	1
Butyl benzyl phthalate	ND		ug/kg	370	1
Di-n-butylphthalate	ND		ug/kg	370	1
Di-n-octylphthalate	ND		ug/kg	370	1
Diethyl phthalate	ND		ug/kg	370	1
Dimethyl phthalate	ND		ug/kg	370	1
Biphenyl	ND		ug/kg	370	1
4-Chloroaniline	ND		ug/kg	370	1
2-Nitroaniline	ND		ug/kg	370	1
3-Nitroaniline	ND		ug/kg	370	1
4-Nitroaniline	ND		ug/kg	520	1
Dibenzofuran	ND		ug/kg	370	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1500	1

Project Name: GASTOWN MGP **Lab Number:** L0910460

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-02 Date Collected: 07/28/09 11:10

Client ID: DPW-206 (12.4-14.4') Date Received: 07/31/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acetophenone	ND		ug/kg	1500	1
2,4,6-Trichlorophenol	ND		ug/kg	370	1
P-Chloro-M-Cresol	ND		ug/kg	370	1
2-Chlorophenol	ND		ug/kg	440	1
2,4-Dichlorophenol	ND		ug/kg	740	1
2,4-Dimethylphenol	ND		ug/kg	370	1
2-Nitrophenol	ND		ug/kg	1500	1
4-Nitrophenol	ND		ug/kg	740	1
2,4-Dinitrophenol	ND		ug/kg	1500	1
4,6-Dinitro-o-cresol	ND		ug/kg	1500	1
Pentachlorophenol	ND		ug/kg	1500	1
Phenol	ND		ug/kg	520	1
2-Methylphenol	ND		ug/kg	440	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	440	1
2,4,5-Trichlorophenol	ND		ug/kg	370	1
Benzoic Acid	ND		ug/kg	3700	1
Benzyl Alcohol	ND		ug/kg	740	1
Carbazole	ND		ug/kg	370	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	76		0-136
4-Terphenyl-d14	81		18-120

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-02	Date Collected:	07/28/09 11:10
Client ID:	DPW-206 (12.4-14.4')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270C	Extraction Date:	08/03/09 14:51
Analytical Date:	08/05/09 01:43		
Analyst:	AS		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	ND		ug/kg	15	1
2-Chloronaphthalene	ND		ug/kg	15	1
Fluoranthene	ND		ug/kg	15	1
Hexachlorobutadiene	ND		ug/kg	37	1
Naphthalene	ND		ug/kg	15	1
Benzo(a)anthracene	ND		ug/kg	15	1
Benzo(a)pyrene	ND		ug/kg	15	1
Benzo(b)fluoranthene	ND		ug/kg	15	1
Benzo(k)fluoranthene	ND		ug/kg	15	1
Chrysene	ND		ug/kg	15	1
Acenaphthylene	ND		ug/kg	15	1
Anthracene	ND		ug/kg	15	1
Benzo(ghi)perylene	ND		ug/kg	15	1
Fluorene	ND		ug/kg	15	1
Phenanthrene	ND		ug/kg	15	1
Dibenzo(a,h)anthracene	ND		ug/kg	15	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	15	1
Pyrene	ND		ug/kg	15	1
2-Methylnaphthalene	ND		ug/kg	15	1
Hexachlorobenzene	ND		ug/kg	59	1
Hexachloroethane	ND		ug/kg	59	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	60		30-120
4-Terphenyl-d14	68		18-120

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-06	Date Collected:	07/29/09 14:30
Client ID:	DPW-202 (4-6')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270C	Extraction Date:	08/07/09 19:46
Analytical Date:	08/08/09 13:32		
Analyst:	PS		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/kg	420	1
Bis(2-chloroethyl)ether	ND		ug/kg	420	1
1,2-Dichlorobenzene	ND		ug/kg	420	1
1,3-Dichlorobenzene	ND		ug/kg	420	1
1,4-Dichlorobenzene	ND		ug/kg	420	1
3,3'-Dichlorobenzidine	ND		ug/kg	830	1
2,4-Dinitrotoluene	ND		ug/kg	420	1
2,6-Dinitrotoluene	ND		ug/kg	420	1
4-Chlorophenyl phenyl ether	ND		ug/kg	420	1
4-Bromophenyl phenyl ether	ND		ug/kg	420	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	420	1
Bis(2-chloroethoxy)methane	ND		ug/kg	420	1
Hexachlorocyclopentadiene	ND		ug/kg	830	1
Isophorone	ND		ug/kg	420	1
Nitrobenzene	ND		ug/kg	420	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1200	1
n-Nitrosodi-n-propylamine	ND		ug/kg	420	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	830	1
Butyl benzyl phthalate	ND		ug/kg	420	1
Di-n-butylphthalate	ND		ug/kg	420	1
Di-n-octylphthalate	ND		ug/kg	420	1
Diethyl phthalate	ND		ug/kg	420	1
Dimethyl phthalate	ND		ug/kg	420	1
Biphenyl	ND		ug/kg	420	1
4-Chloroaniline	ND		ug/kg	420	1
2-Nitroaniline	ND		ug/kg	420	1
3-Nitroaniline	ND		ug/kg	420	1
4-Nitroaniline	ND		ug/kg	580	1
Dibenzofuran	ND		ug/kg	420	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1700	1

Project Name: GASTOWN MGP **Lab Number:** L0910460

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-06 Date Collected: 07/29/09 14:30

Client ID: DPW-202 (4-6') Date Received: 07/31/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acetophenone	ND		ug/kg	1700	1
2,4,6-Trichlorophenol	ND		ug/kg	420	1
P-Chloro-M-Cresol	ND		ug/kg	420	1
2-Chlorophenol	ND		ug/kg	500	1
2,4-Dichlorophenol	ND		ug/kg	830	1
2,4-Dimethylphenol	ND		ug/kg	420	1
2-Nitrophenol	ND		ug/kg	1700	1
4-Nitrophenol	ND		ug/kg	830	1
2,4-Dinitrophenol	ND		ug/kg	1700	1
4,6-Dinitro-o-cresol	ND		ug/kg	1700	1
Pentachlorophenol	ND		ug/kg	1700	1
Phenol	ND		ug/kg	580	1
2-Methylphenol	ND		ug/kg	500	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	500	1
2,4,5-Trichlorophenol	ND		ug/kg	420	1
Benzoic Acid	ND		ug/kg	4200	1
Benzyl Alcohol	ND		ug/kg	830	1
Carbazole	ND		ug/kg	420	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	70		0-136
4-Terphenyl-d14	70		18-120

Project Name: GASTOWN MGP **Lab Number:** L0910460

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-06	Date Collected:	07/29/09 14:30
Client ID:	DPW-202 (4-6')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270C	Extraction Date:	08/07/09 19:51
Analytical Date:	08/10/09 13:46		
Analyst:	AK		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	ND		ug/kg	17	1
2-Chloronaphthalene	ND		ug/kg	17	1
Fluoranthene	ND		ug/kg	17	1
Hexachlorobutadiene	ND		ug/kg	42	1
Naphthalene	ND		ug/kg	17	1
Benzo(a)anthracene	ND		ug/kg	17	1
Benzo(a)pyrene	ND		ug/kg	17	1
Benzo(b)fluoranthene	ND		ug/kg	17	1
Benzo(k)fluoranthene	ND		ug/kg	17	1
Chrysene	ND		ug/kg	17	1
Acenaphthylene	ND		ug/kg	17	1
Anthracene	ND		ug/kg	17	1
Benzo(ghi)perylene	ND		ug/kg	17	1
Fluorene	ND		ug/kg	17	1
Phenanthrene	ND		ug/kg	17	1
Dibenzo(a,h)anthracene	ND		ug/kg	17	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	17	1
Pyrene	ND		ug/kg	17	1
2-Methylnaphthalene	ND		ug/kg	17	1
Hexachlorobenzene	ND		ug/kg	67	1
Hexachloroethane	ND		ug/kg	67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	72		0-136
4-Terphenyl-d14	68		18-120

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/05/09 02:40
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 08/03/09 14:51

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG373653-1				
Acenaphthene	ND		ug/kg	13
2-Chloronaphthalene	ND		ug/kg	13
Fluoranthene	ND		ug/kg	13
Hexachlorobutadiene	ND		ug/kg	33
Naphthalene	ND		ug/kg	13
Benzo(a)anthracene	ND		ug/kg	13
Benzo(a)pyrene	ND		ug/kg	13
Benzo(b)fluoranthene	ND		ug/kg	13
Benzo(k)fluoranthene	ND		ug/kg	13
Chrysene	ND		ug/kg	13
Acenaphthylene	ND		ug/kg	13
Anthracene	ND		ug/kg	13
Benzo(ghi)perylene	ND		ug/kg	13
Fluorene	ND		ug/kg	13
Phenanthrene	ND		ug/kg	13
Dibenzo(a,h)anthracene	ND		ug/kg	13
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	13
Pyrene	ND		ug/kg	13
2-Methylnaphthalene	ND		ug/kg	13
Hexachlorobenzene	ND		ug/kg	53
Hexachloroethane	ND		ug/kg	53

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	49		30-120
4-Terphenyl-d14	64		18-120

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/04/09 18:33
Analyst: AK

Extraction Method: EPA 3546
Extraction Date: 08/03/09 14:53

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG373654-1				
1,2,4-Trichlorobenzene	ND		ug/kg	330
Bis(2-chloroethyl)ether	ND		ug/kg	330
1,2-Dichlorobenzene	ND		ug/kg	330
1,3-Dichlorobenzene	ND		ug/kg	330
1,4-Dichlorobenzene	ND		ug/kg	330
3,3'-Dichlorobenzidine	ND		ug/kg	670
2,4-Dinitrotoluene	ND		ug/kg	330
2,6-Dinitrotoluene	ND		ug/kg	330
4-Chlorophenyl phenyl ether	ND		ug/kg	330
4-Bromophenyl phenyl ether	ND		ug/kg	330
Bis(2-chloroisopropyl)ether	ND		ug/kg	330
Bis(2-chloroethoxy)methane	ND		ug/kg	330
Hexachlorocyclopentadiene	ND		ug/kg	670
Isophorone	ND		ug/kg	330
Nitrobenzene	ND		ug/kg	330
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1000
n-Nitrosodi-n-propylamine	ND		ug/kg	330
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	670
Butyl benzyl phthalate	ND		ug/kg	330
Di-n-butylphthalate	ND		ug/kg	330
Di-n-octylphthalate	ND		ug/kg	330
Diethyl phthalate	ND		ug/kg	330
Dimethyl phthalate	ND		ug/kg	330
Biphenyl	ND		ug/kg	330
4-Chloroaniline	ND		ug/kg	330
2-Nitroaniline	ND		ug/kg	330
3-Nitroaniline	ND		ug/kg	330
4-Nitroaniline	ND		ug/kg	470
Dibenzofuran	ND		ug/kg	330
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1300
Acetophenone	ND		ug/kg	1300

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/04/09 18:33
Analyst: AK

Extraction Method: EPA 3546
Extraction Date: 08/03/09 14:53

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG373654-1				
2,4,6-Trichlorophenol	ND		ug/kg	330
P-Chloro-M-Cresol	ND		ug/kg	330
2-Chlorophenol	ND		ug/kg	400
2,4-Dichlorophenol	ND		ug/kg	670
2,4-Dimethylphenol	ND		ug/kg	330
2-Nitrophenol	ND		ug/kg	1300
4-Nitrophenol	ND		ug/kg	670
2,4-Dinitrophenol	ND		ug/kg	1300
4,6-Dinitro-o-cresol	ND		ug/kg	1300
Pentachlorophenol	ND		ug/kg	1300
Phenol	ND		ug/kg	470
2-Methylphenol	ND		ug/kg	400
3-Methylphenol/4-Methylphenol	ND		ug/kg	400
2,4,5-Trichlorophenol	ND		ug/kg	330
Benzoic Acid	ND		ug/kg	3300
Benzyl Alcohol	ND		ug/kg	670
Carbazole	ND		ug/kg	330

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	68		0-136
4-Terphenyl-d14	76		18-120

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/08/09 12:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 08/07/09 19:46

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG374492-1				
1,2,4-Trichlorobenzene	ND		ug/kg	330
Bis(2-chloroethyl)ether	ND		ug/kg	330
1,2-Dichlorobenzene	ND		ug/kg	330
1,3-Dichlorobenzene	ND		ug/kg	330
1,4-Dichlorobenzene	ND		ug/kg	330
3,3'-Dichlorobenzidine	ND		ug/kg	670
2,4-Dinitrotoluene	ND		ug/kg	330
2,6-Dinitrotoluene	ND		ug/kg	330
4-Chlorophenyl phenyl ether	ND		ug/kg	330
4-Bromophenyl phenyl ether	ND		ug/kg	330
Bis(2-chloroisopropyl)ether	ND		ug/kg	330
Bis(2-chloroethoxy)methane	ND		ug/kg	330
Hexachlorocyclopentadiene	ND		ug/kg	670
Isophorone	ND		ug/kg	330
Nitrobenzene	ND		ug/kg	330
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1000
n-Nitrosodi-n-propylamine	ND		ug/kg	330
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	670
Butyl benzyl phthalate	ND		ug/kg	330
Di-n-butylphthalate	ND		ug/kg	330
Di-n-octylphthalate	ND		ug/kg	330
Diethyl phthalate	ND		ug/kg	330
Dimethyl phthalate	ND		ug/kg	330
Biphenyl	ND		ug/kg	330
4-Chloroaniline	ND		ug/kg	330
2-Nitroaniline	ND		ug/kg	330
3-Nitroaniline	ND		ug/kg	330
4-Nitroaniline	ND		ug/kg	470
Dibenzofuran	ND		ug/kg	330
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1300
Acetophenone	ND		ug/kg	1300

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/08/09 12:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 08/07/09 19:46

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG374492-1				
2,4,6-Trichlorophenol	ND		ug/kg	330
P-Chloro-M-Cresol	ND		ug/kg	330
2-Chlorophenol	ND		ug/kg	400
2,4-Dichlorophenol	ND		ug/kg	670
2,4-Dimethylphenol	ND		ug/kg	330
2-Nitrophenol	ND		ug/kg	1300
4-Nitrophenol	ND		ug/kg	670
2,4-Dinitrophenol	ND		ug/kg	1300
4,6-Dinitro-o-cresol	ND		ug/kg	1300
Pentachlorophenol	ND		ug/kg	1300
Phenol	ND		ug/kg	470
2-Methylphenol	ND		ug/kg	400
3-Methylphenol/4-Methylphenol	ND		ug/kg	400
2,4,5-Trichlorophenol	ND		ug/kg	330
Benzoic Acid	ND		ug/kg	3300
Benzyl Alcohol	ND		ug/kg	670
Carbazole	ND		ug/kg	330

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	72		0-136
4-Terphenyl-d14	70		18-120

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/10/09 12:16
Analyst: AK

Extraction Method: EPA 3546
Extraction Date: 08/07/09 19:51

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 06 Batch: WG374493-1				
Acenaphthene	ND		ug/kg	13
2-Chloronaphthalene	ND		ug/kg	13
Fluoranthene	ND		ug/kg	13
Hexachlorobutadiene	ND		ug/kg	33
Naphthalene	ND		ug/kg	13
Benzo(a)anthracene	ND		ug/kg	13
Benzo(a)pyrene	ND		ug/kg	13
Benzo(b)fluoranthene	ND		ug/kg	13
Benzo(k)fluoranthene	ND		ug/kg	13
Chrysene	ND		ug/kg	13
Acenaphthylene	ND		ug/kg	13
Anthracene	ND		ug/kg	13
Benzo(ghi)perylene	ND		ug/kg	13
Fluorene	ND		ug/kg	13
Phenanthrene	ND		ug/kg	13
Dibenzo(a,h)anthracene	ND		ug/kg	13
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	13
Pyrene	ND		ug/kg	13
2-Methylnaphthalene	ND		ug/kg	13
Hexachlorobenzene	ND		ug/kg	53
Hexachloroethane	ND		ug/kg	53

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/10/09 12:16
Analyst: AK

Extraction Method: EPA 3546
Extraction Date: 08/07/09 19:51

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 06 Batch: WG374493-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	68		0-136
4-Terphenyl-d14	66		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910460

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG373653-2 WG373653-3					
Acenaphthene	71	74	31-137	4	50
2-Chloronaphthalene	87	91	40-140	4	50
Fluoranthene	83	100	40-140	19	50
Anthracene	92	108	40-140	16	50
Pyrene	82	99	35-142	19	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		80		25-120
Phenol-d6	95		88		10-120
Nitrobenzene-d5	98		90		23-120
2-Fluorobiphenyl	84		77		30-120
2,4,6-Tribromophenol	84		88		0-136
4-Terphenyl-d14	79		85		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910460

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG373654-2 WG373654-3					
1,2,4-Trichlorobenzene	63	72	38-107	13	50
1,2-Dichlorobenzene	62	67	40-140	8	50
1,4-Dichlorobenzene	61	66	28-104	8	50
2,4-Dinitrotoluene	86	**95**	28-89	10	50
2,6-Dinitrotoluene	78	84	40-140	7	50
4-Chlorophenyl phenyl ether	75	81	40-140	8	50
n-Nitrosodi-n-propylamine	58	62	41-126	7	50
Butyl benzyl phthalate	89	92	40-140	3	50
P-Chloro-M-Cresol	77	85	26-103	10	50
2-Chlorophenol	63	70	25-102	11	50
2-Nitrophenol	72	80	30-130	11	50
4-Nitrophenol	77	81	11-114	5	50
2,4-Dinitrophenol	59	64	4-130	8	50
Pentachlorophenol	80	90	17-109	12	50
Phenol	65	69	26-90	6	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG373654-2 WG373654-3					

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		71		25-120
Phenol-d6	66		68		10-120
Nitrobenzene-d5	64		68		23-120
2-Fluorobiphenyl	69		76		30-120
2,4,6-Tribromophenol	101		105		0-136
4-Terphenyl-d14	89		91		18-120

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG374492-2 WG374492-3					
1,2,4-Trichlorobenzene	60	86	38-107	36	50
1,2-Dichlorobenzene	59	81	40-140	31	50
1,4-Dichlorobenzene	57	80	28-104	34	50
2,4-Dinitrotoluene	**99**	**103**	28-89	4	50
2,6-Dinitrotoluene	85	92	40-140	8	50
4-Chlorophenyl phenyl ether	81	94	40-140	15	50
n-Nitrosodi-n-propylamine	53	78	41-126	38	50
Butyl benzyl phthalate	100	100	40-140	0	50
P-Chloro-M-Cresol	79	92	26-103	15	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910460

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG374492-2 WG374492-3					
2-Chlorophenol	59	86	25-102	37	50
2-Nitrophenol	66	95	30-130	36	50
4-Nitrophenol	92	94	11-114	2	50
2,4-Dinitrophenol	51	52	4-130	2	50
Pentachlorophenol	94	95	17-109	1	50
Phenol	59	85	26-90	36	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		88		25-120
Phenol-d6	62		85		10-120
Nitrobenzene-d5	62		85		23-120
2-Fluorobiphenyl	70		91		30-120
2,4,6-Tribromophenol	120		116		0-136
4-Terphenyl-d14	108		100		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910460

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 06 Batch: WG374493-2 WG374493-3					
Acenaphthene	55	70	31-137	24	50
2-Chloronaphthalene	70	97	40-140	32	50
Fluoranthene	88	90	40-140	2	50
Anthracene	86	89	40-140	3	50
Pyrene	87	88	35-142	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		90		25-120
Phenol-d6	63		88		10-120
Nitrobenzene-d5	60		89		23-120
2-Fluorobiphenyl	63		83		30-120
2,4,6-Tribromophenol	105		105		0-136
4-Terphenyl-d14	91		88		18-120

PETROLEUM HYDROCARBONS

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-02	Date Collected:	07/28/09 11:10
Client ID:	DPW-206 (12.4-14.4')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	08/04/09 04:28
Analytical Date:	08/05/09 22:31		
Analyst:	RT		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab					
TPH	ND		ug/kg	37000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910460-06	Date Collected:	07/29/09 14:30
Client ID:	DPW-202 (4-6')	Date Received:	07/31/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	08/07/09 21:30
Analytical Date:	08/08/09 13:24		
Analyst:	RT		
Percent Solids:	80%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab					
TPH	ND		ug/kg	41700	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	57		40-140

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015B(M)
Analytical Date: 08/05/09 20:50
Analyst: RT

Extraction Method: EPA 3546
Extraction Date: 08/04/09 04:28

Parameter	Result	Qualifier	Units	RDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 02 Batch: WG373727-1				
TPH	ND		ug/kg	33300

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015B(M)
Analytical Date: 08/08/09 11:41
Analyst: RT

Extraction Method: EPA 3546
Extraction Date: 08/07/09 21:30

Parameter	Result	Qualifier	Units	RDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 06 Batch: WG374507-1				
TPH	ND		ug/kg	33300

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	47		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910460

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 02 Batch: WG373727-2					
TPH	66	-	40-140	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72				40-140

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 06 Batch: WG374507-2					
TPH	60	-	40-140	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 02 QC Batch ID: WG373727-3 QC Sample: L0910501-01 Client ID: DUP Sample					
TPH	ND	ND	ug/kg	NC	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		55		40-140

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 06 QC Batch ID: WG374507-3 QC Sample: L0910460-06 Client ID: DPW-202 (4-6')					
TPH	ND	ND	ug/kg	NC	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	57		49		40-140

INORGANICS
&
MISCELLANEOUS

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-02
Client ID: DPW-206 (12.4-14.4')
Sample Location: TONAWANDA, NY
Matrix: Soil

Date Collected: 07/28/09 11:10
Date Received: 07/31/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total	90		%	0.10	1	-	08/03/09 13:12	30,2540G	AC

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID: L0910460-06
Client ID: DPW-202 (4-6')
Sample Location: TONAWANDA, NY
Matrix: Soil

Date Collected: 07/29/09 14:30
Date Received: 07/31/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total	80		%	0.10	1	-	08/10/09 09:55	30,2540G	AC

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG373630-1 QC Sample: L0910460-02 Client ID: DPW-206 (12.4-14.4')					
Solids, Total	90	90	%	0	20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG374575-1 QC Sample: L0910460-06 Client ID: DPW-202 (4-6')					
Solids, Total	80	80	%	0	20

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910460
Report Date: 08/10/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910460-01A	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-01B	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-01C	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-01D	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-02A	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8260(14)
L0910460-02B	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8260(14)
L0910460-02C	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8270(14),NYTCL-8270-SIM(14),TS(7),TPH-DRO-D(14)
L0910460-02D	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8270(14),NYTCL-8270-SIM(14),TS(7),TPH-DRO-D(14)
L0910460-03A	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-03B	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-03C	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-03D	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-04A	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-04B	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-04C	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-04D	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-05A	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-05B	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-05C	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-05D	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-06A	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8260(14)
L0910460-06B	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8260(14)
L0910460-06C	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8270(14),NYTCL-8270-SIM(14),TS(7),TPH-DRO-D(14)
L0910460-06D	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	NYTCL-8270(14),NYTCL-8270-SIM(14),TS(7),TPH-DRO-D(14)
L0910460-07A	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-07B	Amber 250ml unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-07C	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)
L0910460-07D	Vial Large unpreserved	A	N/A	5	Y	Present/Intact	HOLD(14)

*Hold days indicated by values in parentheses

Project Name:	GASTOWN MGP	**Lab Number:**	L0910460
Project Number:	091220	**Report Date:**	08/10/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*****	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name:	GASTOWN MGP	**Lab Number:**	L0910460
Project Number:	091220	**Report Date:**	08/10/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 7, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Nitrite-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)
600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.2/.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500Cl-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO30F, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540B, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)
Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

CHAIN OF CUSTODY

PAGE 1 OF

Date Rec'd in Lab: 7/31/09

ALPHA Job #: L0910460

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: GEI Consultants
Address: 455 Winding Brook Drive
Glastonbury, CT 06033
Phone: 860-368-5300
Fax:
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gasport MGP
Project Location: Tonawanda, NY
Project #: 091220
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/7/09 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs-8260B	SVOCs-8270C	TPH-8015	TAL Metals	PCBs/O	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
0460.1	DPW-211 (4-7.7')	7/28/09	0920	S	JAS/GVM	H	H	H	H	H			4
2	DPW-206 (12.4-14.4')		1110	S	JAS/GVM	H	H	H	H	H			4
3	DPW-206 (4-6')		1045	S	JAS/GVM	H	H	H	H	H			4
4	DPW-204 (0.8-3.0')	↓	1630	S	JAS/GVM	H	H	H	H	H			4
5	DPW-207 (3-5')	7/29/09	1030	S	JAS	H	H	H	H	H			4
6	DPW-202 (4-6')		1430	S	JAS	H	H	H	H	H			4
7	DPW-210 (0.5-4')		1200	S	JAS	H	H	H	H	H			4

Container Type: A A A A A
Preservative: A A A A A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP? NO

Relinquished By:	Date/Time	Received By:	Date/Time
	7/30/09 1210		7/31/09 9:5

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

08100917:37

CHAIN OF CUSTODY

PAGE 1 OF ____

Date Rec'd in Lab: 7/31/09

ALPHA Job #: L0910460

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: GEI Consultants

Address: 455 Winding Brook Drive
Glastonbury, CT 06033

Phone: 860-368-5300

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gastown MGP

Project Location: Tonawanda, NY

Project #: 091220

Project Manager: Bill Simons

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/7/09 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Attn: Liz Porta

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs 8260B	SVOCs 8270C	TPH 8015	TAL Metals	PFAN0	SAMPLE HANDLING	TOTAL # BOTTLES
0460-1	DPW-211 (4-7.7')	7/28/09	0920	S	JAS/GVM	H	H	H	H	H		4
2	DPW-206 (12.4-14.4')		1110	S	JAS/GVM	H	H	H	H	H		4
3	DPW-206 (4-6')		1045	S	JAS/GVM	H	H	H	H	H		4
4	DPW-204 (0.8-3.0')		1630	S	JAS/GVM	H	H	H	H	H		4
5	DPW-207 (3-5')	7-29-09	1030	S	JAS	H	H	H	H	H		4
6	DPW-202 (4-6')		1430	S	JAS	H	H	H	H	H		4
7	DPW-210 (0.5-4')		1200	S	JAS	H	H	H	H	H		4

Filtration ☐ Done ☐ Not needed ☐ Lab to do

Preservation ☐ Lab to do (Please specify below)

Sample Specific Comments

Container Type: A A A A A

Preservative: A A A A A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP? NO

FORM NO: 01-01 (rev. 14-OCT-07)

Relinquished By:	Date/Time	Received By:	Date/Time
	7/30/09 1210		7/31/09 958
	8/7/09		8/7/09 1830

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

08100917:37

ANALYTICAL REPORT

Lab Number:	L0910377
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Raymond Siegener
Project Name:	Not Specified
Project Number:	091220
Report Date:	08/06/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0910377-02	CAN 898	Not Specified	07/30/09 00:00
L0910377-03	CAN 765	Not Specified	07/30/09 00:00
L0910377-04	CAN 610	Not Specified	07/30/09 00:00
L0910377-05	CAN 655	Not Specified	07/30/09 00:00
L0910377-06	CAN 644	Not Specified	07/30/09 00:00
L0910377-07	CAN 1579	Not Specified	07/30/09 00:00
L0910377-08	CAN 970	Not Specified	07/30/09 00:00
L0910377-09	CAN 1671	Not Specified	07/30/09 00:00

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

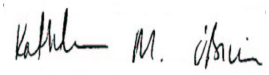
Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air (SIM-PIANO)

The method blank (WG373410-3) has reportable concentrations of Tridecane and 2-Methylnaphthalene. Associated samples were non-detect, therefore canisters were released without further action.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative Date: 08/06/09

AIR

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 17:27
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 17:27
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-02
Client ID: CAN 898
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 18:02
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 18:02
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-03
Client ID: CAN 765
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 18:37
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 18:37
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-04
Client ID: CAN 610
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 19:12
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 19:12
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-05
Client ID: CAN 655
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 19:46
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 19:46
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-06
Client ID: CAN 644
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 20:20
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 20:20
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-07
Client ID: CAN 1579
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 20:53
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 20:53
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-08
Client ID: CAN 970
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/09 21:29
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 21:29
Analyst: RY

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1

Project Name:

Project Number: 091220

Lab Number: L0910377

Report Date: 08/06/09

SAMPLE RESULTS

Lab ID: L0910377-09
Client ID: CAN 1671
Sample Location:

Date Collected: 07/30/09 00:00
Date Received: 07/30/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab						
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	ND	0.050	ND	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	ND	0.050	ND	0.291		1

Project Name: Not Specified
Project Number: 091220
Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-09 Batch: WG373409-3						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-09 Batch: WG373409-3						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1

Project Name: Not Specified
Project Number: 091220
Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-09 Batch: WG373409-3						
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02-09 Batch: WG373409-3						
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1
Ethyl Alcohol	ND	2.50	ND	4.71		1
Acrolein	ND	0.500	ND	1.14		1
Acetaldehyde	ND	5.00	ND	9.00		1

Project Name: Not Specified
Project Number: 091220
Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-09 Batch: WG373410-3						
1,2,4,5-Tetramethylbenzene	ND	0.025	ND	0.137		1
1,2,4-Trimethylbenzene	ND	0.025	ND	0.123		1
1,2-Dibromoethane	ND	0.025	ND	0.192		1
1,2-Dichloroethane	ND	0.025	ND	0.101		1
1,2-Diethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-3-Ethylbenzene	ND	0.025	ND	0.137		1
1,2-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3,5-Trimethylbenzene	ND	0.025	ND	0.123		1
1,3-Butadiene	ND	0.025	ND	0.055		1
1,3-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-4-Ethylbenzene	ND	0.025	ND	0.137		1
1,3-Dimethyl-5-Ethylbenzene	ND	0.025	ND	0.137		1
1,4-Dimethyl-2-Ethylbenzene	ND	0.025	ND	0.137		1
1-Decene	ND	0.025	ND	0.143		1
1-Ethyl-1-Methylcyclopentane	ND	0.025	ND	0.115		1
1-Heptene	ND	0.025	ND	0.100		1
1-Hexene	ND	0.025	ND	0.086		1
1-Methyl-2-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-2-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-2-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-3-Isopropylbenzene	ND	0.025	ND	0.137		1
1-Methyl-3-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Methyl-4-Ethylbenzene	ND	0.025	ND	0.123		1
1-Methyl-4-Isopropylbenzene	ND	0.025	ND	0.137		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-09 Batch: WG373410-3						
1-Methyl-4-N-Propylbenzene	ND	0.025	ND	0.137		1
1-Nonene	ND	0.025	ND	0.129		1
1-Octene	ND	0.025	ND	0.115		1
1-Pentene	ND	0.025	ND	0.072		1
2,3,3-Trimethylpentane	ND	0.025	ND	0.117		1
2,3,4-Trimethylpentane	ND	0.025	ND	0.117		1
2,2-Dimethylpentane	ND	0.025	ND	0.102		1
2,3-Dimethylbutane	ND	0.025	ND	0.088		1
2,3-Dimethylhexane	ND	0.025	ND	0.117		1
2,3-Dimethylpentane	ND	0.025	ND	0.102		1
2,4-Dimethylhexane/2,2,3-Trimethylpentan	ND	0.025	ND	0.117		1
2,4-Dimethylpentane	ND	0.025	ND	0.102		1
2,5-Dimethylhexane	ND	0.025	ND	0.117		1
2-Ethylthiophene	ND	0.025	ND	0.115		1
2-Methyl-1-Butene	ND	0.025	ND	0.072		1
2-Methylheptane	ND	0.025	ND	0.117		1
2-Methylhexane	ND	0.025	ND	0.102		1
2-Methylpentane	ND	0.025	ND	0.088		1
2-Methylthiophene	ND	0.025	ND	0.100		1
Cis-2-Pentene	ND	0.025	ND	0.072		1
Trans-2-Pentene	ND	0.025	ND	0.072		1
3-Ethylhexane	ND	0.025	ND	0.117		1
3-Methylheptane	ND	0.025	ND	0.117		1
3-Methylhexane	ND	0.025	ND	0.102		1
3-Methylpentane	ND	0.025	ND	0.088		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-09 Batch: WG373410-3						
3-Methylthiophene	ND	0.025	ND	0.100		1
Benzene	ND	0.025	ND	0.080		1
Benzothiophene	ND	0.025	ND	0.137		1
n-Butylbenzene	ND	0.025	ND	0.137		1
sec-Butylbenzene	ND	0.025	ND	0.137		1
Cyclohexane	ND	0.025	ND	0.086		1
Cyclopentane	ND	0.025	ND	0.072		1
Isopropyl Ether	ND	0.025	ND	0.104		1
Ethyl Alcohol	ND	0.500	ND	0.942		1
Ethylbenzene	ND	0.025	ND	0.108		1
Ethyl-Tert-Butyl-Ether	ND	0.025	ND	0.104		1
Heptane	ND	0.025	ND	0.102		1
n-Hexane	ND	0.025	ND	0.088		1
Isooctane	ND	0.025	ND	0.117		1
Isopentane	ND	0.025	ND	0.074		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Isopropylbenzene	ND	0.025	ND	0.123		1
Methylcyclohexane	ND	0.025	ND	0.100		1
Methylcyclopentane	ND	0.025	ND	0.086		1
Methyl tert butyl ether	ND	0.025	ND	0.090		1
MMT	ND	0.025	ND	0.223		1
p/m-Xylene	ND	0.025	ND	0.108		1
o-Xylene	ND	0.025	ND	0.108		1
Naphthalene	ND	0.100	ND	0.524		1
N-Pentylbenzene	ND	0.025	ND	0.152		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/31/09 15:06

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
PIANO Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02-09 Batch: WG373410-3						
n-Propylbenzene	ND	0.025	ND	0.123		1
Styrene	ND	0.025	ND	0.106		1
Tertiary-Amyl Methyl Ether	ND	0.025	ND	0.104		1
Tertiary Butanol	ND	0.050	ND	0.152		1
Thiophene	ND	0.025	ND	0.086		1
Toluene	ND	0.025	ND	0.094		1
Pentane	ND	0.025	ND	0.074		1
Octane	ND	0.025	ND	0.117		1
Nonane (C9)	ND	0.025	ND	0.131		1
Decane (C10)	ND	0.025	ND	0.146		1
Dodecane (C12)	ND	0.100	ND	0.697		1
Undecane	ND	0.025	ND	0.160		1
Tridecane	0.061	0.050	0.460	0.377		1
Indene	ND	0.025	ND	0.119		1
1-Methylnaphthalene	ND	0.050	ND	0.291		1
2-Methylnaphthalene	0.066	0.050	0.384	0.291		1

Project Name: Not Specified
Project Number: 091220

Lab Number: L0910377
Report Date: 08/06/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910377-02A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0910377-03A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0910377-04A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0910377-05A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0910377-06A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0910377-07A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0910377-08A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)
L0910377-09A	Canister - 6 Liter	NA	NA	NA	NA	Absent	NF-TO15(30),NF-TO15SIM-PIANO(30)

*Hold days indicated by values in parentheses

Project Name:	Not Specified	**Lab Number:**	L0910377
Project Number:	091220	**Report Date:**	08/06/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*****	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name: Not Specified
Project Number: 091220
Lab Number: L0910377
Report Date: 08/06/09

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

Alpha Analytical
Canister Cleaning Log

CCP #	Can ID #	Date Cleaned
1	1561	7/30/09
2	898	↓
3	765	
4	610	
5	655	
6	644	
7	1579	
8	970	
9	1671	
10		
11		
12		
13		
14		
15		
16		
17		
18		

Can Cleaner # 3 Final Pressure., mTorr 650

Shelf # — Initials: LB

Can size, L 6.0C

*individual can certs

Canister QC Data			
Login #	Can ID	Analysis	Date Approved
L0910377		NF-TO15	
		NF-TO15SIM-RIAZO	

Submitted for analysis by: Lisa Baan Date: 7/30/09

ANALYTICAL REPORT

Lab Number:	L0910549
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Raymond Siegener
Project Name:	GASTOWN MGP
Project Number:	091220
Report Date:	08/10/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910549
Report Date: 08/10/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0910549-01	DPW-209 (0.9-1.8')	TONAWANDA, NY	07/30/09 11:05
L0910549-02	DPW-209 (8.9-12')	TONAWANDA, NY	07/30/09 11:00
L0910549-03	DPW-201 (4.5-8.0')	TONAWANDA, NY	07/30/09 13:40
L0910549-04	DPW-203 (5.7-8.0')	TONAWANDA, NY	07/30/09 15:45

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

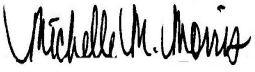
Report Submission

This is a final report. This final report replaces the partial report issued August 7, 2009. The results for all requested analyses are reported.

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were transported to the laboratory in a cooler with ice. The client was notified of the exceedance, and all requested analyses were performed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative Date: 08/10/09

ORGANICS

VOLATILES

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910549-02	Date Collected:	07/30/09 11:00
Client ID:	DPW-209 (8.9-12')	Date Received:	08/01/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260B		
Analytical Date:	08/10/09 11:02		
Analyst:	PD		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/kg	29	1
1,1-Dichloroethane	ND		ug/kg	4.3	1
Chloroform	ND		ug/kg	4.3	1
Carbon tetrachloride	ND		ug/kg	2.9	1
1,2-Dichloropropane	ND		ug/kg	10	1
Dibromochloromethane	ND		ug/kg	2.9	1
1,1,2-Trichloroethane	ND		ug/kg	4.3	1
Tetrachloroethene	ND		ug/kg	2.9	1
Chlorobenzene	ND		ug/kg	2.9	1
Trichlorofluoromethane	ND		ug/kg	14	1
1,2-Dichloroethane	ND		ug/kg	2.9	1
1,1,1-Trichloroethane	ND		ug/kg	2.9	1
Bromodichloromethane	ND		ug/kg	2.9	1
trans-1,3-Dichloropropene	ND		ug/kg	2.9	1
cis-1,3-Dichloropropene	ND		ug/kg	2.9	1
1,1-Dichloropropene	ND		ug/kg	14	1
Bromoform	ND		ug/kg	11	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.9	1
Benzene	ND		ug/kg	2.9	1
Toluene	ND		ug/kg	4.3	1
Ethylbenzene	ND		ug/kg	2.9	1
Chloromethane	ND		ug/kg	14	1
Bromomethane	ND		ug/kg	5.7	1
Vinyl chloride	ND		ug/kg	5.7	1
Chloroethane	ND		ug/kg	5.7	1
1,1-Dichloroethene	ND		ug/kg	2.9	1
trans-1,2-Dichloroethene	ND		ug/kg	4.3	1
Trichloroethene	ND		ug/kg	2.9	1
1,2-Dichlorobenzene	ND		ug/kg	14	1
1,3-Dichlorobenzene	ND		ug/kg	14	1

Project Name: GASTOWN MGP **Lab Number:** L0910549

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910549-02 Date Collected: 07/30/09 11:00

Client ID: DPW-209 (8.9-12') Date Received: 08/01/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/kg	14	1
Methyl tert butyl ether	ND		ug/kg	5.7	1
p/m-Xylene	ND		ug/kg	5.7	1
o-Xylene	ND		ug/kg	5.7	1
cis-1,2-Dichloroethene	ND		ug/kg	2.9	1
Dibromomethane	ND		ug/kg	29	1
Styrene	ND		ug/kg	5.7	1
Dichlorodifluoromethane	ND		ug/kg	29	1
Acetone	ND		ug/kg	29	1
Carbon disulfide	ND		ug/kg	29	1
2-Butanone	ND		ug/kg	29	1
Vinyl acetate	ND		ug/kg	29	1
4-Methyl-2-pentanone	ND		ug/kg	29	1
1,2,3-Trichloropropane	ND		ug/kg	29	1
2-Hexanone	ND		ug/kg	29	1
Bromochloromethane	ND		ug/kg	14	1
2,2-Dichloropropane	ND		ug/kg	14	1
1,2-Dibromoethane	ND		ug/kg	11	1
1,3-Dichloropropane	ND		ug/kg	14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.9	1
Bromobenzene	ND		ug/kg	14	1
n-Butylbenzene	ND		ug/kg	2.9	1
sec-Butylbenzene	ND		ug/kg	2.9	1
tert-Butylbenzene	ND		ug/kg	14	1
o-Chlorotoluene	ND		ug/kg	14	1
p-Chlorotoluene	ND		ug/kg	14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	14	1
Hexachlorobutadiene	ND		ug/kg	14	1
Isopropylbenzene	ND		ug/kg	2.9	1
p-Isopropyltoluene	ND		ug/kg	2.9	1
Naphthalene	ND		ug/kg	14	1
Acrylonitrile	ND		ug/kg	29	1
n-Propylbenzene	ND		ug/kg	2.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	14	1
1,2,4-Trichlorobenzene	ND		ug/kg	14	1
1,3,5-Trimethylbenzene	ND		ug/kg	14	1
1,2,4-Trimethylbenzene	ND		ug/kg	14	1

Project Name: GASTOWN MGP **Lab Number:** L0910549

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910549-02 Date Collected: 07/30/09 11:00

Client ID: DPW-209 (8.9-12') Date Received: 08/01/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/kg	11	1
4-Ethyltoluene	ND		ug/kg	11	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	11	1
Ethyl ether	ND		ug/kg	14	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	14	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	78		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	75		70-130

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/10/09 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG374598-3				
Methylene chloride	ND		ug/kg	25
1,1-Dichloroethane	ND		ug/kg	3.8
Chloroform	ND		ug/kg	3.8
Carbon tetrachloride	ND		ug/kg	2.5
1,2-Dichloropropane	ND		ug/kg	8.8
Dibromochloromethane	ND		ug/kg	2.5
1,1,2-Trichloroethane	ND		ug/kg	3.8
Tetrachloroethene	ND		ug/kg	2.5
Chlorobenzene	ND		ug/kg	2.5
Trichlorofluoromethane	ND		ug/kg	12
1,2-Dichloroethane	ND		ug/kg	2.5
1,1,1-Trichloroethane	ND		ug/kg	2.5
Bromodichloromethane	ND		ug/kg	2.5
trans-1,3-Dichloropropene	ND		ug/kg	2.5
cis-1,3-Dichloropropene	ND		ug/kg	2.5
1,1-Dichloropropene	ND		ug/kg	12
Bromoform	ND		ug/kg	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.5
Benzene	ND		ug/kg	2.5
Toluene	ND		ug/kg	3.8
Ethylbenzene	ND		ug/kg	2.5
Chloromethane	ND		ug/kg	12
Bromomethane	ND		ug/kg	5.0
Vinyl chloride	ND		ug/kg	5.0
Chloroethane	ND		ug/kg	5.0
1,1-Dichloroethene	ND		ug/kg	2.5
trans-1,2-Dichloroethene	ND		ug/kg	3.8
Trichloroethene	ND		ug/kg	2.5
1,2-Dichlorobenzene	ND		ug/kg	12
1,3-Dichlorobenzene	ND		ug/kg	12
1,4-Dichlorobenzene	ND		ug/kg	12

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/10/09 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG374598-3				
Methyl tert butyl ether	ND		ug/kg	5.0
p/m-Xylene	ND		ug/kg	5.0
o-Xylene	ND		ug/kg	5.0
cis-1,2-Dichloroethene	ND		ug/kg	2.5
Dibromomethane	ND		ug/kg	25
Styrene	ND		ug/kg	5.0
Dichlorodifluoromethane	ND		ug/kg	25
Acetone	ND		ug/kg	25
Carbon disulfide	ND		ug/kg	25
2-Butanone	ND		ug/kg	25
Vinyl acetate	ND		ug/kg	25
4-Methyl-2-pentanone	ND		ug/kg	25
1,2,3-Trichloropropane	ND		ug/kg	25
2-Hexanone	ND		ug/kg	25
Bromochloromethane	ND		ug/kg	12
2,2-Dichloropropane	ND		ug/kg	12
1,2-Dibromoethane	ND		ug/kg	10
1,3-Dichloropropane	ND		ug/kg	12
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.5
Bromobenzene	ND		ug/kg	12
n-Butylbenzene	ND		ug/kg	2.5
sec-Butylbenzene	ND		ug/kg	2.5
tert-Butylbenzene	ND		ug/kg	12
o-Chlorotoluene	ND		ug/kg	12
p-Chlorotoluene	ND		ug/kg	12
1,2-Dibromo-3-chloropropane	ND		ug/kg	12
Hexachlorobutadiene	ND		ug/kg	12
Isopropylbenzene	ND		ug/kg	2.5
p-Isopropyltoluene	ND		ug/kg	2.5
Naphthalene	ND		ug/kg	12
Acrylonitrile	ND		ug/kg	25

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/10/09 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG374598-3				
n-Propylbenzene	ND		ug/kg	2.5
1,2,3-Trichlorobenzene	ND		ug/kg	12
1,2,4-Trichlorobenzene	ND		ug/kg	12
1,3,5-Trimethylbenzene	ND		ug/kg	12
1,2,4-Trimethylbenzene	ND		ug/kg	12
1,4-Diethylbenzene	ND		ug/kg	10
4-Ethyltoluene	ND		ug/kg	10
1,2,4,5-Tetramethylbenzene	ND		ug/kg	10
Ethyl ether	ND		ug/kg	12
trans-1,4-Dichloro-2-butene	ND		ug/kg	12

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	73		70-130
Toluene-d8	83		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	72		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910549

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG374598-1 WG374598-2					
Chlorobenzene	99	97	60-133	2	30
Benzene	102	99	66-142	3	30
Toluene	99	96	59-139	3	30
1,1-Dichloroethene	106	99	59-172	7	30
Trichloroethene	102	99	62-137	3	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		79		70-130
Toluene-d8	88		87		70-130
4-Bromofluorobenzene	108		108		70-130
Dibromofluoromethane	80		83		70-130

SEMIVOLATILES

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910549-02	Date Collected:	07/30/09 11:00
Client ID:	DPW-209 (8.9-12')	Date Received:	08/01/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270C	Extraction Date:	08/04/09 17:43
Analytical Date:	08/06/09 21:51		
Analyst:	AS		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	ND		ug/kg	15	1
2-Chloronaphthalene	ND		ug/kg	15	1
Fluoranthene	ND		ug/kg	15	1
Hexachlorobutadiene	ND		ug/kg	38	1
Naphthalene	ND		ug/kg	15	1
Benzo(a)anthracene	ND		ug/kg	15	1
Benzo(a)pyrene	ND		ug/kg	15	1
Benzo(b)fluoranthene	ND		ug/kg	15	1
Benzo(k)fluoranthene	ND		ug/kg	15	1
Chrysene	ND		ug/kg	15	1
Acenaphthylene	ND		ug/kg	15	1
Anthracene	ND		ug/kg	15	1
Benzo(ghi)perylene	ND		ug/kg	15	1
Fluorene	ND		ug/kg	15	1
Phenanthrene	ND		ug/kg	15	1
Dibenzo(a,h)anthracene	ND		ug/kg	15	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	15	1
Pyrene	ND		ug/kg	15	1
2-Methylnaphthalene	ND		ug/kg	15	1
Hexachlorobenzene	ND		ug/kg	61	1
Hexachloroethane	ND		ug/kg	61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	34		30-120
4-Terphenyl-d14	96		18-120

Project Name: GASTOWN MGP **Lab Number:** L0910549

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID:	L0910549-02	Date Collected:	07/30/09 11:00
Client ID:	DPW-209 (8.9-12')	Date Received:	08/01/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270C	Extraction Date:	08/04/09 17:30
Analytical Date:	08/06/09 23:17		
Analyst:	AK		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/kg	380	1
Bis(2-chloroethyl)ether	ND		ug/kg	380	1
1,2-Dichlorobenzene	ND		ug/kg	380	1
1,3-Dichlorobenzene	ND		ug/kg	380	1
1,4-Dichlorobenzene	ND		ug/kg	380	1
3,3'-Dichlorobenzidine	ND		ug/kg	770	1
2,4-Dinitrotoluene	ND		ug/kg	380	1
2,6-Dinitrotoluene	ND		ug/kg	380	1
4-Chlorophenyl phenyl ether	ND		ug/kg	380	1
4-Bromophenyl phenyl ether	ND		ug/kg	380	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	380	1
Bis(2-chloroethoxy)methane	ND		ug/kg	380	1
Hexachlorocyclopentadiene	ND		ug/kg	770	1
Isophorone	ND		ug/kg	380	1
Nitrobenzene	ND		ug/kg	380	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1100	1
n-Nitrosodi-n-propylamine	ND		ug/kg	380	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	770	1
Butyl benzyl phthalate	ND		ug/kg	380	1
Di-n-butylphthalate	ND		ug/kg	380	1
Di-n-octylphthalate	ND		ug/kg	380	1
Diethyl phthalate	ND		ug/kg	380	1
Dimethyl phthalate	ND		ug/kg	380	1
Biphenyl	ND		ug/kg	380	1
4-Chloroaniline	ND		ug/kg	380	1
2-Nitroaniline	ND		ug/kg	380	1
3-Nitroaniline	ND		ug/kg	380	1
4-Nitroaniline	ND		ug/kg	540	1
Dibenzofuran	ND		ug/kg	380	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1500	1

Project Name: GASTOWN MGP **Lab Number:** L0910549

Project Number: 091220 **Report Date:** 08/10/09

SAMPLE RESULTS

Lab ID: L0910549-02 Date Collected: 07/30/09 11:00

Client ID: DPW-209 (8.9-12') Date Received: 08/01/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acetophenone	ND		ug/kg	1500	1
2,4,6-Trichlorophenol	ND		ug/kg	380	1
P-Chloro-M-Cresol	ND		ug/kg	380	1
2-Chlorophenol	ND		ug/kg	460	1
2,4-Dichlorophenol	ND		ug/kg	770	1
2,4-Dimethylphenol	ND		ug/kg	380	1
2-Nitrophenol	ND		ug/kg	1500	1
4-Nitrophenol	ND		ug/kg	770	1
2,4-Dinitrophenol	ND		ug/kg	1500	1
4,6-Dinitro-o-cresol	ND		ug/kg	1500	1
Pentachlorophenol	ND		ug/kg	1500	1
Phenol	ND		ug/kg	540	1
2-Methylphenol	ND		ug/kg	460	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	460	1
2,4,5-Trichlorophenol	ND		ug/kg	380	1
Benzoic Acid	ND		ug/kg	3800	1
Benzyl Alcohol	ND		ug/kg	770	1
Carbazole	ND		ug/kg	380	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		25-120
Phenol-d6	33		10-120
Nitrobenzene-d5	32		23-120
2-Fluorobiphenyl	33		30-120
2,4,6-Tribromophenol	37		0-136
4-Terphenyl-d14	86		18-120

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/06/09 22:07
Analyst: AK

Extraction Method: EPA 3546
Extraction Date: 08/04/09 17:30

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG373873-1				
1,2,4-Trichlorobenzene	ND		ug/kg	330
Bis(2-chloroethyl)ether	ND		ug/kg	330
1,2-Dichlorobenzene	ND		ug/kg	330
1,3-Dichlorobenzene	ND		ug/kg	330
1,4-Dichlorobenzene	ND		ug/kg	330
3,3'-Dichlorobenzidine	ND		ug/kg	670
2,4-Dinitrotoluene	ND		ug/kg	330
2,6-Dinitrotoluene	ND		ug/kg	330
4-Chlorophenyl phenyl ether	ND		ug/kg	330
4-Bromophenyl phenyl ether	ND		ug/kg	330
Bis(2-chloroisopropyl)ether	ND		ug/kg	330
Bis(2-chloroethoxy)methane	ND		ug/kg	330
Hexachlorocyclopentadiene	ND		ug/kg	670
Isophorone	ND		ug/kg	330
Nitrobenzene	ND		ug/kg	330
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1000
n-Nitrosodi-n-propylamine	ND		ug/kg	330
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	670
Butyl benzyl phthalate	ND		ug/kg	330
Di-n-butylphthalate	ND		ug/kg	330
Di-n-octylphthalate	ND		ug/kg	330
Diethyl phthalate	ND		ug/kg	330
Dimethyl phthalate	ND		ug/kg	330
Biphenyl	ND		ug/kg	330
4-Chloroaniline	ND		ug/kg	330
2-Nitroaniline	ND		ug/kg	330
3-Nitroaniline	ND		ug/kg	330
4-Nitroaniline	ND		ug/kg	470
Dibenzofuran	ND		ug/kg	330
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1300
Acetophenone	ND		ug/kg	1300

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/06/09 22:07
Analyst: AK

Extraction Method: EPA 3546
Extraction Date: 08/04/09 17:30

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG373873-1				
2,4,6-Trichlorophenol	ND		ug/kg	330
P-Chloro-M-Cresol	ND		ug/kg	330
2-Chlorophenol	ND		ug/kg	400
2,4-Dichlorophenol	ND		ug/kg	670
2,4-Dimethylphenol	ND		ug/kg	330
2-Nitrophenol	ND		ug/kg	1300
4-Nitrophenol	ND		ug/kg	670
2,4-Dinitrophenol	ND		ug/kg	1300
4,6-Dinitro-o-cresol	ND		ug/kg	1300
Pentachlorophenol	ND		ug/kg	1300
Phenol	ND		ug/kg	470
2-Methylphenol	ND		ug/kg	400
3-Methylphenol/4-Methylphenol	ND		ug/kg	400
2,4,5-Trichlorophenol	ND		ug/kg	330
Benzoic Acid	ND		ug/kg	3300
Benzyl Alcohol	ND		ug/kg	670
Carbazole	ND		ug/kg	330

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		25-120
Phenol-d6	37		10-120
Nitrobenzene-d5	37		23-120
2-Fluorobiphenyl	39		30-120
2,4,6-Tribromophenol	45		0-136
4-Terphenyl-d14	71		18-120

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910549
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/06/09 20:26
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 08/04/09 17:43

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG373874-1				
Acenaphthene	ND		ug/kg	13
2-Chloronaphthalene	ND		ug/kg	13
Fluoranthene	ND		ug/kg	13
Hexachlorobutadiene	ND		ug/kg	33
Naphthalene	ND		ug/kg	13
Benzo(a)anthracene	ND		ug/kg	13
Benzo(a)pyrene	ND		ug/kg	13
Benzo(b)fluoranthene	ND		ug/kg	13
Benzo(k)fluoranthene	ND		ug/kg	13
Chrysene	ND		ug/kg	13
Acenaphthylene	ND		ug/kg	13
Anthracene	ND		ug/kg	13
Benzo(ghi)perylene	ND		ug/kg	13
Fluorene	ND		ug/kg	13
Phenanthrene	ND		ug/kg	13
Dibenzo(a,h)anthracene	ND		ug/kg	13
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	13
Pyrene	ND		ug/kg	13
2-Methylnaphthalene	ND		ug/kg	13
Hexachlorobenzene	ND		ug/kg	53
Hexachloroethane	ND		ug/kg	53

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	40		30-120
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910549

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG373873-2 WG373873-3					
1,2,4-Trichlorobenzene	67	53	38-107	23	50
1,2-Dichlorobenzene	66	54	40-140	20	50
1,4-Dichlorobenzene	65	53	28-104	20	50
2,4-Dinitrotoluene	85	84	28-89	1	50
2,6-Dinitrotoluene	75	69	40-140	8	50
4-Chlorophenyl phenyl ether	71	64	40-140	10	50
n-Nitrosodi-n-propylamine	59	48	41-126	21	50
Butyl benzyl phthalate	87	86	40-140	1	50
P-Chloro-M-Cresol	73	66	26-103	10	50
2-Chlorophenol	66	54	25-102	20	50
2-Nitrophenol	73	59	30-130	21	50
4-Nitrophenol	78	76	11-114	3	50
2,4-Dinitrophenol	53	52	4-130	2	50
Pentachlorophenol	79	81	17-109	3	50
Phenol	66	54	26-90	20	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910549

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG373873-2 WG373873-3					

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		55		25-120
Phenol-d6	66		53		10-120
Nitrobenzene-d5	65		53		23-120
2-Fluorobiphenyl	68		56		30-120
2,4,6-Tribromophenol	95		90		0-136
4-Terphenyl-d14	88		85		18-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG373874-2 WG373874-3					
Acenaphthene	39	52	31-137	29	50
2-Chloronaphthalene	53	68	40-140	25	50
Fluoranthene	93	101	40-140	8	50
Anthracene	75	94	40-140	22	50
Pyrene	93	101	35-142	8	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910549

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG373874-2 WG373874-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	56		72		23-120
2-Fluorobiphenyl	46		61		30-120
4-Terphenyl-d14	90		97		18-120

PETROLEUM HYDROCARBONS

Project Name: GASTOWN MGP
Project Number: 091220
Lab Number: L0910549
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID:	L0910549-02	Date Collected:	07/30/09 11:00
Client ID:	DPW-209 (8.9-12')	Date Received:	08/01/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8015B(M)	Extraction Date:	08/04/09 15:40
Analytical Date:	08/05/09 14:33		
Analyst:	RT		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab					
TPH	ND		ug/kg	38300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		40-140

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910549
Report Date: 08/10/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015B(M)
Analytical Date: 08/05/09 10:35
Analyst: RT

Extraction Method: EPA 3546
Extraction Date: 08/04/09 14:30

Parameter	Result	Qualifier	Units	RDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 02 Batch: WG373845-1				
TPH	ND		ug/kg	33300

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN MGP

Project Number: 091220

Lab Number: L0910549

Report Date: 08/10/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 02 Batch: WG373845-2					
TPH	57	-	40-140	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910549
Report Date: 08/10/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 02 QC Batch ID: WG373845-3 QC Sample: L0910580-05 Client ID: DUP Sample					
TPH	ND	ND	ug/kg	NC	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	53		**26**		40-140

INORGANICS
&
MISCELLANEOUS

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910549
Report Date: 08/10/09

SAMPLE RESULTS

Lab ID: L0910549-02
Client ID: DPW-209 (8.9-12')
Sample Location: TONAWANDA, NY
Matrix: Soil

Date Collected: 07/30/09 11:00
Date Received: 08/01/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total	87		%	0.10	1	-	08/05/09 10:16	30,2540G	AC

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910549
Report Date: 08/10/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG373950-1 QC Sample: L0910549-02 Client ID: DPW-209 (8.9-12')					
Solids, Total	87	87	%	0	20

Project Name: GASTOWN MGP
Project Number: 091220

Lab Number: L0910549
Report Date: 08/10/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910549-01A	Vial Large unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-01B	Vial Large unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-01C	Amber 250ml unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-01D	Amber 250ml unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-02A	Vial Large unpreserved	A	N/A	8	Y	Absent	NYTCL-8260(14)
L0910549-02B	Vial Large unpreserved	A	N/A	8	Y	Absent	NYTCL-8260(14)
L0910549-02C	Amber 250ml unpreserved	A	N/A	8	Y	Absent	NYTCL-8270(14),NYTCL-8270-SIM(14),TPH-DRO-D(14)
L0910549-02D	Amber 250ml unpreserved	A	N/A	8	Y	Absent	TS(7)
L0910549-03A	Vial Large unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-03B	Vial Large unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-03C	Amber 250ml unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-03D	Amber 250ml unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-04A	Vial Large unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-04B	Vial Large unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-04C	Amber 250ml unpreserved	A	N/A	8	Y	Absent	HOLD(14)
L0910549-04D	Amber 250ml unpreserved	A	N/A	8	Y	Absent	HOLD(14)

*Hold days indicated by values in parentheses

Project Name:	GASTOWN MGP	**Lab Number:**	L0910549
Project Number:	091220	**Report Date:**	08/10/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

*****	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name:	GASTOWN MGP	**Lab Number:**	L0910549
Project Number:	091220	**Report Date:**	08/10/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 7, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Nitrite-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)
600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.2/.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500Cl-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO30F, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540B, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)
Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/1/09

ALPHA Job #: L09 10549

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

0810091531

Client Information

Client: GEI Consultants
Address: 455 Winding Brook Dr
Glastonbury, CT 06033
Phone: 860-368-5300
Fax:
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gastown MGP
Project Location: Tonawanda, NY
Project #: 091220
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/10/09 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs - 8260-5035	SVOCs - 8270C	TPH - 8015	TAL Metals	Ft AND	Sample Specific Comments	TOTAL # BOTTLES
549.1	DPW-209 (0.9-1.8')	7-30-09	1105	S	JAS/GVM	H	H	H	H	H		4
2	DPW-209 (8.9-12')	7-30-09	1100	S	JAS/GVM	H	H	H	H	H		4
3	DPW-201 (4.5-8.0)	7-30-09	1340	S	JAS/GVM	H	H	H	H	H		4
4	DPW-203 (5.7-8.0)	7-30-09	1545	S	JAS/GVM	H	H	H	H	H		4

Container Type: A A A A A
Preservative: A A A A A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP? No

Relinquished By:	Date/Time	Received By:	Date/Time
	7-31-09 10:00		8/1/09 1001

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L0911099
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Bill Simons
Project Name:	GASTOWN FORMER MGP
Project Number:	091220
Report Date:	08/20/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911099
Report Date: 08/20/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0911099-01	GT-IA-GYM	TONAWANDA, NY	08/11/09 13:32
L0911099-02	GT-IA-CAF	TONAWANDA, NY	08/11/09 14:58
L0911099-03	GT-IA-CLS	TONAWANDA, NY	08/11/09 11:20
L0911099-04	GT-IA-XXX	TONAWANDA, NY	08/11/09 09:23
L0911099-05	GT-OA-NW	TONAWANDA, NY	08/11/09 08:03
L0911099-06	GT-OA-SE	TONAWANDA, NY	08/11/09 11:44
L0911099-07	CAN-765	TONAWANDA, NY	
L0911099-08	CAN-655	TONAWANDA, NY	

Project Name: GASTOWN FORMER MGP **Lab Number:** L0911099
Project Number: 091220 **Report Date:** 08/20/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air

L0911099-02, -05, and -06: results for Acetone should be considered estimated due to co-elution with a non-target peak.

The WG375363-3 LCS recovery for trans-1,3-Dichloropropene (68%) is outside the 70%-130% acceptance limit. The LCS was within overall method allowances, therefore the analysis proceeded.

Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan,

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0911099
Project Number:	091220	**Report Date:**	08/20/09

Case Narrative (continued)

Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, and 1-Methylnaphthalene were not included in the spike solution for the LCS/ICV standard, therefore percent recovery is not reported in the LCS for these compounds. There is not a second source from the initial calibration available for these compounds; however, they were included in the daily continuing calibration standard.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 08/20/09

AIR

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-01
Client ID: GT-IA-GYM
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/13/09 20:31
Analyst: RY

Date Collected: 08/11/09 13:32
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	0.254	0.200	1.25	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	0.458	0.200	2.25	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	0.241	0.200	0.975	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	0.462	0.200	2.78	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	2.77	0.200	8.17	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	0.289	0.200	1.18	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-01
Client ID: GT-IA-GYM
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:32
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	19.7	1.00	46.7	2.37		1
Benzene	0.266	0.200	0.849	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.329	0.200	1.02	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.470	0.200	0.970	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.501	0.200	2.48	0.988		1
Ethylbenzene	0.210	0.200	0.911	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	0.226	0.200	0.926	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	5.79	0.500	14.2	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.323	0.200	1.32	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-01
Client ID: GT-IA-GYM
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:32
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.623	0.200	2.70	0.868		1
o-Xylene	0.235	0.200	1.02	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	0.267	0.200	0.809	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	1.62	0.200	6.11	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	2.43	0.200	13.6	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	0.997	0.200	2.37	0.475		1
Pentane	0.690	0.200	2.03	0.590		1
Octane	0.370	0.200	1.73	0.934		1
Nonane (C9)	0.531	0.200	2.78	1.05		1
Decane (C10)	0.724	0.200	4.21	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	0.379	0.200	2.42	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-02
Client ID: GT-IA-CAF
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/13/09 21:06
Analyst: RY

Date Collected: 08/11/09 14:58
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	0.229	0.200	1.12	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	0.414	0.200	2.03	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	0.360	0.200	1.46	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	0.550	0.200	3.30	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	3.21	0.200	9.46	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	0.320	0.200	1.31	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-02
Client ID: GT-IA-CAF
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 14:58
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	22.8	1.00	54.2	2.37		1
Benzene	0.265	0.200	0.846	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.379	0.200	1.18	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.438	0.200	0.904	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.487	0.200	2.41	0.988		1
Ethylbenzene	0.211	0.200	0.915	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	0.239	0.200	0.979	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	8.27	0.500	20.3	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.395	0.200	1.62	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-02
Client ID: GT-IA-CAF
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 14:58
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.584	0.200	2.53	0.868		1
o-Xylene	0.229	0.200	0.994	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	0.294	0.200	0.891	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	1.58	0.200	5.93	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	2.81	0.200	15.8	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.15	0.200	2.73	0.475		1
Pentane	0.841	0.200	2.48	0.590		1
Octane	0.294	0.200	1.37	0.934		1
Nonane (C9)	0.464	0.200	2.43	1.05		1
Decane (C10)	0.668	0.200	3.89	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	0.386	0.200	2.47	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-03
Client ID: GT-IA-CLS
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/13/09 21:40
Analyst: RY

Date Collected: 08/11/09 11:20
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	0.205	0.200	1.01	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	0.400	0.200	1.96	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	0.242	0.200	0.979	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	0.472	0.200	2.84	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	2.63	0.200	7.74	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	0.255	0.200	1.04	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-03
Client ID: GT-IA-CLS
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 11:20
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	19.2	1.00	45.5	2.37		1
Benzene	0.329	0.200	1.05	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.358	0.200	1.11	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.441	0.200	0.910	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.487	0.200	2.41	0.988		1
Ethylbenzene	0.201	0.200	0.872	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	10.5	0.500	25.8	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.323	0.200	1.32	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-03
Client ID: GT-IA-CLS
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 11:20
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.565	0.200	2.45	0.868		1
o-Xylene	0.211	0.200	0.915	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	0.317	0.200	1.35	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	1.37	0.200	5.15	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	2.08	0.200	11.7	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.93	0.200	4.58	0.475		1
Pentane	0.727	0.200	2.14	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	0.369	0.200	1.94	1.05		1
Decane (C10)	0.496	0.200	2.89	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	0.281	0.200	1.80	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-04
Client ID: GT-IA-XXX
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/13/09 22:15
Analyst: RY

Date Collected: 08/11/09 09:23
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	0.259	0.200	1.27	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	0.401	0.200	1.97	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	0.241	0.200	0.975	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	0.455	0.200	2.73	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	2.76	0.200	8.14	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	0.297	0.200	1.22	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-04
Client ID: GT-IA-XXX
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 09:23
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	19.4	1.00	46.0	2.37		1
Benzene	0.287	0.200	0.916	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.329	0.200	1.02	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.469	0.200	0.968	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.505	0.200	2.50	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	0.248	0.200	1.02	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	6.26	0.500	15.4	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.380	0.200	1.56	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-04
Client ID: GT-IA-XXX
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 09:23
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.527	0.200	2.29	0.868		1
o-Xylene	0.208	0.200	0.902	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	0.244	0.200	0.740	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	1.55	0.200	5.84	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	2.29	0.200	12.8	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.03	0.200	2.45	0.475		1
Pentane	0.631	0.200	1.86	0.590		1
Octane	0.315	0.200	1.47	0.934		1
Nonane (C9)	0.520	0.200	2.73	1.05		1
Decane (C10)	0.779	0.200	4.53	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	0.463	0.200	2.96	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-05
Client ID: GT-OA-NW
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/13/09 22:49
Analyst: RY

Date Collected: 08/11/09 08:03
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.514	0.200	1.51	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-05
Client ID: GT-OA-NW
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 08:03
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	5.06	1.00	12.0	2.37		1
Benzene	0.409	0.200	1.30	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.286	0.200	0.890	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.386	0.200	0.796	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.423	0.200	2.09	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-05
Client ID: GT-OA-NW
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 08:03
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.325	0.200	1.41	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.727	0.200	2.74	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	0.836	0.200	1.98	0.475		1
Pentane	0.556	0.200	1.64	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-06
Client ID: GT-OA-SE
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/13/09 23:22
Analyst: RY

Date Collected: 08/11/09 11:44
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.415	0.200	1.22	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-06
Client ID: GT-OA-SE
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 11:44
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	2.76	1.00	6.55	2.37		1
Benzene	0.416	0.200	1.33	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.227	0.200	0.707	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.416	0.200	0.859	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.446	0.200	2.20	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911099-06
Client ID: GT-OA-SE
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 11:44
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.558	0.200	2.42	0.868		1
o-Xylene	0.204	0.200	0.883	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	1.21	0.200	4.55	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	0.859	0.200	2.04	0.475		1
Pentane	0.801	0.200	2.36	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG375363-4						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG375363-4						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG375363-4						
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911099
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG375363-4						
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911099

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG375363-3					
1,1,1-Trichloroethane	86	-	70-130	-	
1,1,2,2-Tetrachloroethane	109	-	70-130	-	
1,1,2-Trichloroethane	90	-	70-130	-	
1,1-Dichloroethane	87	-	70-130	-	
1,1-Dichloroethene	83	-	70-130	-	
1,2,4-Trichlorobenzene	123	-	70-130	-	
1,2,4-Trimethylbenzene	119	-	70-130	-	
1,2-Dibromoethane	87	-	70-130	-	
1,2-Dichlorobenzene	112	-	70-130	-	
1,2-Dichloroethane	104	-	70-130	-	
1,2-Dichloropropane	87	-	70-130	-	
1,3,5-Trimethylbenzene	114	-	70-130	-	
1,3-Butadiene	81	-	70-130	-	
1,3-Dichlorobenzene	110	-	70-130	-	
1,4-Dichlorobenzene	110	-	70-130	-	
1,4-Dioxane	89	-	70-130	-	
2,2,4-Trimethylpentane	92	-	70-130	-	
2-Butanone	108	-	70-130	-	
o-Chlorotoluene	94	-	70-130	-	
2-Hexanone	111	-	70-130	-	
3-Chloropropene	80	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911099

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG375363-3					
4-Ethyltoluene	122	-	70-130	-	
Acetone	116	-	70-130	-	
Benzene	88	-	70-130	-	
Bromodichloromethane	95	-	70-130	-	
Bromoform	102	-	70-130	-	
Bromomethane	70	-	70-130	-	
Carbon disulfide	73	-	70-130	-	
Carbon tetrachloride	81	-	70-130	-	
Chlorobenzene	97	-	70-130	-	
Chloroethane	75	-	70-130	-	
Chloroform	92	-	70-130	-	
Chloromethane	89	-	70-130	-	
cis-1,2-Dichloroethene	88	-	70-130	-	
cis-1,3-Dichloropropene	79	-	70-130	-	
Cyclohexane	74	-	70-130	-	
Dibromochloromethane	98	-	70-130	-	
Dichlorodifluoromethane	98	-	70-130	-	
Ethylbenzene	115	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	78	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	93	-	70-130	-	
Heptane	90	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911099

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG375363-3					
Hexachlorobutadiene	113	-	70-130	-	
n-Hexane	73	-	70-130	-	
iso-Propyl Alcohol	103	-	70-130	-	
Methylene chloride	81	-	70-130	-	
4-Methyl-2-pentanone	111	-	70-130	-	
Methyl tert butyl ether	102	-	70-130	-	
p/m-Xylene	110	-	70-130	-	
o-Xylene	107	-	70-130	-	
Naphthalene	122	-	70-130	-	
Styrene	103	-	70-130	-	
tert-Butyl Alcohol	93	-	70-130	-	
Tetrachloroethene	91	-	70-130	-	
Toluene	98	-	70-130	-	
trans-1,2-Dichloroethene	78	-	70-130	-	
trans-1,3-Dichloropropene	**68**	-	70-130	-	
Trichloroethene	84	-	70-130	-	
Trichlorofluoromethane	90	-	70-130	-	
Vinyl bromide	77	-	70-130	-	
Vinyl chloride	83	-	70-130	-	
Butane	79	-	70-130	-	
Pentane	76	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911099

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG375363-3					
Octane	74	-	70-130	-	
Nonane (C9)	102	-	70-130	-	
Decane (C10)	100	-	70-130	-	
Dodecane (C12)	126	-	70-130	-	
Undecane	109	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911099
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: DUP Sample					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,3-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4,5-Tetramethylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911099
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: DUP Sample					
2-Butanone	ND	ND	ppbV	NC	25
o-Chlorotoluene	ND	ND	ppbV	NC	25
2-Ethylthiophene	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
2-Methylthiophene	ND	ND	ppbV	NC	25
3-Chloropropene	ND	ND	ppbV	NC	25
3-Methylthiophene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	27.6	27.4	ppbV	1	25
Benzene	ND	ND	ppbV	NC	25
Benzothiophene	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Carbon disulfide	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911099
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: DUP Sample					
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.528	0.510	ppbV	3	25
Ethylbenzene	ND	ND	ppbV	NC	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
iso-Propyl Alcohol	86.1	81.1	ppbV	6	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
Naphthalene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911099
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: DUP Sample					
Styrene	ND	ND	ppbV	NC	25
tert-Butyl Alcohol	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Thiophene	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25
Butane	ND	ND	ppbV	NC	25
Pentane	ND	ND	ppbV	NC	25
Octane	ND	ND	ppbV	NC	25
Nonane (C9)	ND	ND	ppbV	NC	25
Decane (C10)	ND	ND	ppbV	NC	25
Dodecane (C12)	ND	ND	ppbV	NC	25
Undecane	ND	ND	ppbV	NC	25
Indane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911099
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: DUP Sample					
Indene	ND	ND	ppbV	NC	25
1-Methylnaphthalene	ND	ND	ppbV	NC	25
2-Methylnaphthalene	ND	ND	ppbV	NC	25

Project Name: GASTOWN FORMER MGP **Lab Number:** L0911099

Project Number: 091220 **Report Date:** 08/20/09

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0911099-01	GT-IA-GYM	0049	#16 AMB		-	-	3.4	3.7	8
L0911099-01	GT-IA-GYM	610	6.0L Can	I0910377	-29.5	-4.8	-	-	-
L0911099-02	GT-IA-CAF	0015	#16 AMB		-	-	3.6	3.8	5
L0911099-02	GT-IA-CAF	1671	6.0L Can	I0910377	-29.5	-8.4	-	-	-
L0911099-03	GT-IA-CLS	0441	#16 AMB		-	-	3.5	3.5	0
L0911099-03	GT-IA-CLS	970	6.0L Can	I0910377	-29.5	-5.0	-	-	-
L0911099-04	GT-IA-XXX	0444	#16 AMB		-	-	3.6	3.8	5
L0911099-04	GT-IA-XXX	644	6.0L Can	I0910377	-29.5	-2.7	-	-	-
L0911099-05	GT-OA-NW	0075	#16 AMB		-	-	3.4	5.9	54
L0911099-05	GT-OA-NW	1579	6.0L Can	I0910377	-29.5	-0.4	-	-	-
L0911099-06	GT-OA-SE	0071	#16 AMB		-	-	3.5	3.7	6
L0911099-06	GT-OA-SE	898	6.0L Can	I0910377	-29.5	-5.3	-	-	-
L0911099-07	CAN-765	0117	#16 AMB		-	-	3.5	3.7	6
L0911099-07	CAN-765	765	6.0L Can	I0910377	-29.5	-29.6	-	-	-
L0911099-08	CAN-655	0393	#16 AMB		-	-	3.6	3.7	3
L0911099-08	CAN-655	655	6.0L Can	I0910377	-29.5	-28.5	-	-	-

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911099
Report Date: 08/20/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0911099-01A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L0911099-02A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L0911099-03A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L0911099-04A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L0911099-05A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L0911099-06A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L0911099-07A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L0911099-08A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()

*Hold days indicated by values in parentheses

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0911099
Project Number:	091220	**Report Date:**	08/20/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0911099
Project Number:	091220	**Report Date:**	08/20/09

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0911099

08200914:19

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781-721-4000
Fax: 781-721-4073
Email: rsiegener@geiconsultants.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gustown Former MGP
Project Location: Tonawanda, NY
Project #: 091220
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☒ EMAIL (standard pdf report)
☐ Additional Deliverables: _____
Report to: (if different than Project Manager)
Ray Siegener

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments: These were 24-hour samples. Start times are on 8-10-09 and End Times are on 8-11-09.

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
11099-1	GT-IA-GYM	8-10-09 / 8-11-09	1356	1332	30	5	AA	TAD	6L	610	0049		X						
2	GT-IA-CAF	8-10-09 / 8-11-09	1402	1458	30	9.5		TAD		1671	0015		X						
3	GT-IA-CLS	8-10-09 / 8-11-09	1404	1120	27	2		TAD		970	0441		X						
4	GT-IA-XXX	8-10-09 / 8-11-09	1200	0923	28	0		TAD		644	0444		X						
5	GT-OA-NW	8-10-09 / 8-11-09	1430	0803	29.5	0		TAD		1579	0075		X						
6	GT-OA-SE	8-10-09 / 8-11-09	1436	1144	30	4	↓	TAD	↓	898	0071		X						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Tadaniele	8-11-09/	FedEx 1060 N. Falls Blvd	8-11-09 / 1745
Fulton		M. Auclair	8/12/09 11:00

Form No: 101-02 (19-Jun-09)

ANALYTICAL REPORT

Lab Number:	L0911101
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Bill Simons
Project Name:	GASTOWN FORMER MGP
Project Number:	091220
Report Date:	08/20/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0911101-01	GT-DPV-01	TONAWANDA, NY	08/11/09 10:16
L0911101-02	GT-DPV-02	TONAWANDA, NY	08/11/09 11:45
L0911101-03	GT-DPV-03	TONAWANDA, NY	08/11/09 14:41
L0911101-04	GT-DPV-04	TONAWANDA, NY	08/11/09 11:49
L0911101-05	GT-DPV-05	TONAWANDA, NY	08/11/09 13:25
L0911101-06	GT-DPV-06	TONAWANDA, NY	08/11/09 11:11
L0911101-07	GT-DPV-XX	TONAWANDA, NY	08/11/09 13:06
L0911101-08	GT-SS-01	TONAWANDA, NY	08/11/09 13:53
L0911101-09	GT-SS-02	TONAWANDA, NY	08/11/09 13:30
L0911101-10	GT-SS-03	TONAWANDA, NY	08/11/09 14:04
L0911101-11	GT-SS-XX	TONAWANDA, NY	08/11/09 13:03
L0911101-12	CAN-570	TONAWANDA, NY	
L0911101-13	CAN-481	TONAWANDA, NY	
L0911101-14	CAN-156	TONAWANDA, NY	

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0911101
Project Number:	091220	**Report Date:**	08/20/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

The analysis of samples GT-DPV-02, GT-DPV-04 and GT-DVP-05 could not be performed due to insufficient sample volume in the canister.

Volatile Organics in Air

L0911101-01, -03, -06, -08 and WG375363-5 Duplicate have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0911101
Project Number:	091220	**Report Date:**	08/20/09

Case Narrative (continued)

L0911101-03, -06, -07, -09, -11: results for Acetone should be considered estimated due to co-elution with a non-target peak.

L0911101-08 was re-analyzed due to over dilution of the original analysis. The results of the re-analysis are reported.

WG375363-5 Duplicate was re-analyzed due to a quality control issue during the original analysis. The results of the re-analysis are reported.

The WG375363-3 LCS recovery for trans-1,3-Dichloropropene (68%) is outside the 70%-130% acceptance limit. The LCS was within overall method allowances, therefore the analysis proceeded.

Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, and 1-Methylnaphthalene were not included in the spike solution for the LCS/ICV standard, therefore percent recovery is not reported in the LCS for these compounds. There is not a second source from the initial calibration available for these compounds; however, they were included in the daily continuing calibration standard.

Fixed Gas - Helium

L0911101-01, -03, -06 through -11: Prior to sample analysis, the canisters were pressurized with UHP Hydrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Hydrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 08/20/09

AIR

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-01 D
Client ID: GT-DPV-01
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/13/09 23:54
Analyst: RY

Date Collected: 08/11/09 10:16
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		2.5
1,1,2-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1-Dichloroethane	ND	0.500	ND	2.02		2.5
1,1-Dichloroethene	ND	0.500	ND	1.98		2.5
1,2,3-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4-Trichlorobenzene	ND	0.500	ND	3.71		2.5
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4,5-Tetramethylbenzene	ND	6.25	ND	34.3		2.5
1,2-Dibromoethane	ND	0.500	ND	3.84		2.5
1,2-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,2-Dichloroethane	ND	0.500	ND	2.02		2.5
1,2-Dichloropropane	ND	0.500	ND	2.31		2.5
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,3-Butadiene	ND	0.500	ND	1.10		2.5
1,3-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dioxane	ND	0.500	ND	1.80		2.5
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		2.5
2-Butanone	ND	0.500	ND	1.47		2.5
o-Chlorotoluene	ND	0.500	ND	2.59		2.5
2-Ethylthiophene	ND	0.500	ND	2.29		2.5
2-Hexanone	ND	0.500	ND	2.05		2.5
2-Methylthiophene	ND	0.500	ND	2.01		2.5
3-Chloropropene	ND	0.500	ND	1.56		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-01 D
Client ID: GT-DPV-01
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 10:16
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.500	ND	2.01		2.5
4-Ethyltoluene	ND	0.500	ND	2.46		2.5
Acetone	27.6	2.50	65.4	5.93		2.5
Benzene	ND	0.500	ND	1.60		2.5
Benzothiophene	ND	6.25	ND	34.3		2.5
Bromodichloromethane	ND	0.500	ND	3.35		2.5
Bromoform	ND	0.500	ND	5.16		2.5
Bromomethane	ND	0.500	ND	1.94		2.5
Carbon disulfide	ND	0.500	ND	1.56		2.5
Carbon tetrachloride	ND	0.500	ND	3.14		2.5
Chlorobenzene	ND	0.500	ND	2.30		2.5
Chloroethane	ND	0.500	ND	1.32		2.5
Chloroform	ND	0.500	ND	2.44		2.5
Chloromethane	ND	0.500	ND	1.03		2.5
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Cyclohexane	ND	0.500	ND	1.72		2.5
Dibromochloromethane	ND	0.500	ND	4.26		2.5
Dichlorodifluoromethane	0.528	0.500	2.61	2.47		2.5
Ethylbenzene	ND	0.500	ND	2.17		2.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.500	ND	3.83		2.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.500	ND	3.49		2.5
Heptane	ND	0.500	ND	2.05		2.5
Hexachlorobutadiene	ND	0.500	ND	5.33		2.5
n-Hexane	ND	1.25	ND	4.40		2.5
iso-Propyl Alcohol	86.1	1.25	211	3.07		2.5
Methylene chloride	ND	1.25	ND	4.34		2.5
4-Methyl-2-pentanone	ND	0.500	ND	2.05		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-01 D
Client ID: GT-DPV-01
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 10:16
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.500	ND	1.80		2.5
p/m-Xylene	ND	0.500	ND	2.17		2.5
o-Xylene	ND	0.500	ND	2.17		2.5
Naphthalene	ND	0.500	ND	2.62		2.5
Styrene	ND	0.500	ND	2.13		2.5
tert-Butyl Alcohol	ND	0.500	ND	1.52		2.5
Tetrachloroethene	ND	0.500	ND	3.39		2.5
Thiophene	ND	0.500	ND	1.72		2.5
Toluene	ND	0.500	ND	1.88		2.5
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Trichloroethene	ND	0.500	ND	2.68		2.5
Trichlorofluoromethane	ND	0.500	ND	2.81		2.5
Vinyl bromide	ND	0.500	ND	2.18		2.5
Vinyl chloride	ND	0.500	ND	1.28		2.5
Butane	ND	0.500	ND	1.19		2.5
Pentane	ND	0.500	ND	1.47		2.5
Octane	ND	0.500	ND	2.33		2.5
Nonane (C9)	ND	0.500	ND	2.62		2.5
Decane (C10)	ND	0.500	ND	2.91		2.5
Dodecane (C12)	ND	1.25	ND	8.71		2.5
Undecane	ND	0.500	ND	3.20		2.5
Indane	ND	0.500	ND	2.42		2.5
Indene	ND	0.500	ND	2.38		2.5
1-Methylnaphthalene	ND	6.25	ND	36.3		2.5
2-Methylnaphthalene	ND	6.25	ND	36.3		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-03 D
Client ID: GT-DPV-03
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/14/09 01:00
Analyst: RY

Date Collected: 08/11/09 14:41
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	1.00	ND	5.45		5
1,1,2,2-Tetrachloroethane	ND	1.00	ND	6.86		5
1,1,2-Trichloroethane	ND	1.00	ND	5.45		5
1,1-Dichloroethane	ND	1.00	ND	4.04		5
1,1-Dichloroethene	ND	1.00	ND	3.96		5
1,2,3-Trimethylbenzene	ND	1.00	ND	4.92		5
1,2,4-Trichlorobenzene	ND	1.00	ND	7.42		5
1,2,4-Trimethylbenzene	ND	1.00	ND	4.91		5
1,2,4,5-Tetramethylbenzene	ND	12.5	ND	68.6		5
1,2-Dibromoethane	ND	1.00	ND	7.68		5
1,2-Dichlorobenzene	ND	1.00	ND	6.01		5
1,2-Dichloroethane	ND	1.00	ND	4.04		5
1,2-Dichloropropane	ND	1.00	ND	4.62		5
1,3,5-Trimethylbenzene	ND	1.00	ND	4.91		5
1,3-Butadiene	ND	1.00	ND	2.21		5
1,3-Dichlorobenzene	ND	1.00	ND	6.01		5
1,4-Dichlorobenzene	ND	1.00	ND	6.01		5
1,4-Dioxane	ND	1.00	ND	3.60		5
2,2,4-Trimethylpentane	ND	1.00	ND	4.67		5
2-Butanone	ND	1.00	ND	2.95		5
o-Chlorotoluene	ND	1.00	ND	5.17		5
2-Ethylthiophene	ND	1.00	ND	4.59		5
2-Hexanone	ND	1.00	ND	4.10		5
2-Methylthiophene	ND	1.00	ND	4.01		5
3-Chloropropene	ND	1.00	ND	3.13		5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-03 D
Client ID: GT-DPV-03
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 14:41
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	1.00	ND	4.01		5
4-Ethyltoluene	ND	1.00	ND	4.91		5
Acetone	ND	5.00	ND	11.9		5
Benzene	3.16	1.00	10.1	3.19		5
Benzothiophene	ND	12.5	ND	68.6		5
Bromodichloromethane	ND	1.00	ND	6.70		5
Bromoform	ND	1.00	ND	10.3		5
Bromomethane	ND	1.00	ND	3.88		5
Carbon disulfide	1.10	1.00	3.42	3.11		5
Carbon tetrachloride	ND	1.00	ND	6.29		5
Chlorobenzene	ND	1.00	ND	4.60		5
Chloroethane	ND	1.00	ND	2.64		5
Chloroform	1.57	1.00	7.65	4.88		5
Chloromethane	ND	1.00	ND	2.06		5
cis-1,2-Dichloroethene	ND	1.00	ND	3.96		5
cis-1,3-Dichloropropene	ND	1.00	ND	4.53		5
Cyclohexane	ND	1.00	ND	3.44		5
Dibromochloromethane	ND	1.00	ND	8.51		5
Dichlorodifluoromethane	ND	1.00	ND	4.94		5
Ethylbenzene	1.21	1.00	5.23	4.34		5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.00	ND	7.66		5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.00	ND	6.98		5
Heptane	ND	1.00	ND	4.10		5
Hexachlorobutadiene	ND	1.00	ND	10.6		5
n-Hexane	ND	2.50	ND	8.80		5
iso-Propyl Alcohol	5.76	2.50	14.2	6.14		5
Methylene chloride	ND	2.50	ND	8.68		5
4-Methyl-2-pentanone	ND	1.00	ND	4.09		5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-03 D
Client ID: GT-DPV-03
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 14:41
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	1.00	ND	3.60		5
p/m-Xylene	3.58	1.00	15.5	4.34		5
o-Xylene	1.21	1.00	5.25	4.34		5
Naphthalene	ND	1.00	ND	5.24		5
Styrene	ND	1.00	ND	4.26		5
tert-Butyl Alcohol	ND	1.00	ND	3.03		5
Tetrachloroethene	ND	1.00	ND	6.78		5
Thiophene	ND	1.00	ND	3.44		5
Toluene	5.44	1.00	20.5	3.76		5
trans-1,2-Dichloroethene	ND	1.00	ND	3.96		5
trans-1,3-Dichloropropene	ND	1.00	ND	4.53		5
Trichloroethene	ND	1.00	ND	5.37		5
Trichlorofluoromethane	ND	1.00	ND	5.61		5
Vinyl bromide	ND	1.00	ND	4.37		5
Vinyl chloride	ND	1.00	ND	2.55		5
Butane	12.0	1.00	28.5	2.38		5
Pentane	5.42	1.00	16.0	2.95		5
Octane	ND	1.00	ND	4.67		5
Nonane (C9)	ND	1.00	ND	5.25		5
Decane (C10)	ND	1.00	ND	5.82		5
Dodecane (C12)	ND	2.50	ND	17.4		5
Undecane	ND	1.00	ND	6.39		5
Indane	ND	1.00	ND	4.83		5
Indene	ND	1.00	ND	4.75		5
1-Methylnaphthalene	ND	12.5	ND	72.7		5
2-Methylnaphthalene	ND	12.5	ND	72.7		5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-06 D
Client ID: GT-DPV-06
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/14/09 01:32
Analyst: RY

Date Collected: 08/11/09 11:11
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		2.5
1,1,2-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1-Dichloroethane	ND	0.500	ND	2.02		2.5
1,1-Dichloroethene	ND	0.500	ND	1.98		2.5
1,2,3-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4-Trichlorobenzene	ND	0.500	ND	3.71		2.5
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4,5-Tetramethylbenzene	ND	6.25	ND	34.3		2.5
1,2-Dibromoethane	ND	0.500	ND	3.84		2.5
1,2-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,2-Dichloroethane	ND	0.500	ND	2.02		2.5
1,2-Dichloropropane	ND	0.500	ND	2.31		2.5
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,3-Butadiene	ND	0.500	ND	1.10		2.5
1,3-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dioxane	ND	0.500	ND	1.80		2.5
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		2.5
2-Butanone	ND	0.500	ND	1.47		2.5
o-Chlorotoluene	ND	0.500	ND	2.59		2.5
2-Ethylthiophene	ND	0.500	ND	2.29		2.5
2-Hexanone	ND	0.500	ND	2.05		2.5
2-Methylthiophene	ND	0.500	ND	2.01		2.5
3-Chloropropene	ND	0.500	ND	1.56		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-06 D
Client ID: GT-DPV-06
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 11:11
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.500	ND	2.01		2.5
4-Ethyltoluene	ND	0.500	ND	2.46		2.5
Acetone	ND	2.50	ND	5.93		2.5
Benzene	ND	0.500	ND	1.60		2.5
Benzothiophene	ND	6.25	ND	34.3		2.5
Bromodichloromethane	ND	0.500	ND	3.35		2.5
Bromoform	ND	0.500	ND	5.16		2.5
Bromomethane	ND	0.500	ND	1.94		2.5
Carbon disulfide	ND	0.500	ND	1.56		2.5
Carbon tetrachloride	ND	0.500	ND	3.14		2.5
Chlorobenzene	ND	0.500	ND	2.30		2.5
Chloroethane	ND	0.500	ND	1.32		2.5
Chloroform	5.40	0.500	26.4	2.44		2.5
Chloromethane	ND	0.500	ND	1.03		2.5
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Cyclohexane	ND	0.500	ND	1.72		2.5
Dibromochloromethane	ND	0.500	ND	4.26		2.5
Dichlorodifluoromethane	0.512	0.500	2.53	2.47		2.5
Ethylbenzene	ND	0.500	ND	2.17		2.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.500	ND	3.83		2.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.500	ND	3.49		2.5
Heptane	ND	0.500	ND	2.05		2.5
Hexachlorobutadiene	ND	0.500	ND	5.33		2.5
n-Hexane	ND	1.25	ND	4.40		2.5
iso-Propyl Alcohol	11.3	1.25	27.8	3.07		2.5
Methylene chloride	ND	1.25	ND	4.34		2.5
4-Methyl-2-pentanone	ND	0.500	ND	2.05		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-06 D
Client ID: GT-DPV-06
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 11:11
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.500	ND	1.80		2.5
p/m-Xylene	ND	0.500	ND	2.17		2.5
o-Xylene	ND	0.500	ND	2.17		2.5
Naphthalene	ND	0.500	ND	2.62		2.5
Styrene	ND	0.500	ND	2.13		2.5
tert-Butyl Alcohol	ND	0.500	ND	1.52		2.5
Tetrachloroethene	ND	0.500	ND	3.39		2.5
Thiophene	ND	0.500	ND	1.72		2.5
Toluene	ND	0.500	ND	1.88		2.5
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Trichloroethene	ND	0.500	ND	2.68		2.5
Trichlorofluoromethane	ND	0.500	ND	2.81		2.5
Vinyl bromide	ND	0.500	ND	2.18		2.5
Vinyl chloride	ND	0.500	ND	1.28		2.5
Butane	3.32	0.500	7.87	1.19		2.5
Pentane	2.20	0.500	6.50	1.47		2.5
Octane	ND	0.500	ND	2.33		2.5
Nonane (C9)	ND	0.500	ND	2.62		2.5
Decane (C10)	ND	0.500	ND	2.91		2.5
Dodecane (C12)	ND	1.25	ND	8.71		2.5
Undecane	ND	0.500	ND	3.20		2.5
Indane	ND	0.500	ND	2.42		2.5
Indene	ND	0.500	ND	2.38		2.5
1-Methylnaphthalene	ND	6.25	ND	36.3		2.5
2-Methylnaphthalene	ND	6.25	ND	36.3		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-07
Client ID: GT-DPV-XX
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/14/09 02:06
Analyst: RY

Date Collected: 08/11/09 13:06
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.556	0.200	1.64	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-07
Client ID: GT-DPV-XX
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:06
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	3.20	1.00	7.60	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.265	0.200	0.824	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	5.29	0.200	25.8	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.538	0.200	2.66	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	5.64	0.500	13.9	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-07
Client ID: GT-DPV-XX
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:06
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.319	0.200	1.79	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.66	0.200	3.94	0.475		1
Pentane	1.32	0.200	3.88	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-08 R
Client ID: GT-SS-01
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/14/09 10:16
Analyst: RY

Date Collected: 08/11/09 13:53
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	3.13	0.200	17.1	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	0.206	0.200	0.833	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	1.22	0.200	3.60	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	0.241	0.200	0.987	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-08 R
Client ID: GT-SS-01
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:53
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	12.8	1.00	30.5	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.247	0.200	0.768	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	0.364	0.200	1.78	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.516	0.200	2.55	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	1.59	0.500	3.90	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-08 R
Client ID: GT-SS-01
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:53
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	0.732	0.200	3.83	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	0.317	0.200	0.961	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.304	0.200	1.14	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	2.02	0.200	11.3	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	0.500	0.200	1.19	0.475		1
Pentane	0.253	0.200	0.746	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-09
Client ID: GT-SS-02
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/14/09 03:11
Analyst: RY

Date Collected: 08/11/09 13:30
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.368	0.200	1.08	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-09
Client ID: GT-SS-02
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:30
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	2.90	1.00	6.88	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.268	0.200	0.552	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.511	0.200	2.52	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	1.05	0.500	2.58	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-09
Client ID: GT-SS-02
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:30
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.239	0.200	0.898	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	2.98	0.200	16.7	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	0.721	0.200	1.71	0.475		1
Pentane	0.316	0.200	0.932	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-10
Client ID: GT-SS-03
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/14/09 03:44
Analyst: RY

Date Collected: 08/11/09 14:04
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	3.54	0.200	10.4	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	0.364	0.200	1.49	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-10
Client ID: GT-SS-03
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 14:04
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	41.8	1.00	99.2	2.37		1
Benzene	0.322	0.200	1.03	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.366	0.200	1.14	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	0.379	0.200	1.85	0.976		1
Chloromethane	0.395	0.200	0.815	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.502	0.200	2.48	0.988		1
Ethylbenzene	0.209	0.200	0.907	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	0.274	0.200	1.12	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	4.99	0.500	12.2	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.429	0.200	1.76	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-10
Client ID: GT-SS-03
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 14:04
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.585	0.200	2.54	0.868		1
o-Xylene	0.200	0.200	0.868	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	0.286	0.200	0.867	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	1.26	0.200	4.75	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	3.32	0.200	18.6	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.43	0.200	3.39	0.475		1
Pentane	0.660	0.200	1.95	0.590		1
Octane	2.07	0.200	9.66	0.934		1
Nonane (C9)	0.381	0.200	2.00	1.05		1
Decane (C10)	4.85	0.200	28.2	1.16		1
Dodecane (C12)	0.812	0.500	5.66	3.48		1
Undecane	0.214	0.200	1.37	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-11
Client ID: GT-SS-XX
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/14/09 09:40
Analyst: RY

Date Collected: 08/11/09 13:03
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	0.258	0.200	1.27	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	3.59	0.200	10.6	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	0.480	0.200	1.97	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-11
Client ID: GT-SS-XX
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:03
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	44.7	1.00	106	2.37		1
Benzene	0.593	0.200	1.89	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.541	0.200	1.68	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	0.346	0.200	1.69	0.976		1
Chloromethane	0.483	0.200	0.996	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.267	0.200	0.918	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.507	0.200	2.50	0.988		1
Ethylbenzene	0.476	0.200	2.06	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	0.387	0.200	1.58	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	5.35	0.500	13.1	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.487	0.200	1.99	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID: L0911101-11
Client ID: GT-SS-XX
Sample Location: TONAWANDA, NY
Date Collected: 08/11/09 13:03
Date Received: 08/12/09
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	0.947	0.200	4.11	0.868		1
o-Xylene	0.327	0.200	1.42	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	0.445	0.200	1.35	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	2.96	0.200	11.2	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	3.05	0.200	17.1	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.32	0.200	3.15	0.475		1
Pentane	11.0	0.200	32.3	0.590		1
Octane	2.12	0.200	9.90	0.934		1
Nonane (C9)	0.444	0.200	2.33	1.05		1
Decane (C10)	6.37	0.200	37.1	1.16		1
Dodecane (C12)	1.63	0.500	11.3	3.48		1
Undecane	0.454	0.200	2.90	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03,06-11 Batch: WG375363-4						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03,06-11 Batch: WG375363-4						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03,06-11 Batch: WG375363-4						
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/13/09 19:56

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03,06-11 Batch: WG375363-4						
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911101

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 Batch: WG375363-3					
1,1,1-Trichloroethane	86	-	70-130	-	
1,1,2,2-Tetrachloroethane	109	-	70-130	-	
1,1,2-Trichloroethane	90	-	70-130	-	
1,1-Dichloroethane	87	-	70-130	-	
1,1-Dichloroethene	83	-	70-130	-	
1,2,4-Trichlorobenzene	123	-	70-130	-	
1,2,4-Trimethylbenzene	119	-	70-130	-	
1,2-Dibromoethane	87	-	70-130	-	
1,2-Dichlorobenzene	112	-	70-130	-	
1,2-Dichloroethane	104	-	70-130	-	
1,2-Dichloropropane	87	-	70-130	-	
1,3,5-Trimethylbenzene	114	-	70-130	-	
1,3-Butadiene	81	-	70-130	-	
1,3-Dichlorobenzene	110	-	70-130	-	
1,4-Dichlorobenzene	110	-	70-130	-	
1,4-Dioxane	89	-	70-130	-	
2,2,4-Trimethylpentane	92	-	70-130	-	
2-Butanone	108	-	70-130	-	
o-Chlorotoluene	94	-	70-130	-	
2-Hexanone	111	-	70-130	-	
3-Chloropropene	80	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911101

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 Batch: WG375363-3					
4-Ethyltoluene	122	-	70-130	-	
Acetone	116	-	70-130	-	
Benzene	88	-	70-130	-	
Bromodichloromethane	95	-	70-130	-	
Bromoform	102	-	70-130	-	
Bromomethane	70	-	70-130	-	
Carbon disulfide	73	-	70-130	-	
Carbon tetrachloride	81	-	70-130	-	
Chlorobenzene	97	-	70-130	-	
Chloroethane	75	-	70-130	-	
Chloroform	92	-	70-130	-	
Chloromethane	89	-	70-130	-	
cis-1,2-Dichloroethene	88	-	70-130	-	
cis-1,3-Dichloropropene	79	-	70-130	-	
Cyclohexane	74	-	70-130	-	
Dibromochloromethane	98	-	70-130	-	
Dichlorodifluoromethane	98	-	70-130	-	
Ethylbenzene	115	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	78	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	93	-	70-130	-	
Heptane	90	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 Batch: WG375363-3					
Hexachlorobutadiene	113	-	70-130	-	
n-Hexane	73	-	70-130	-	
iso-Propyl Alcohol	103	-	70-130	-	
Methylene chloride	81	-	70-130	-	
4-Methyl-2-pentanone	111	-	70-130	-	
Methyl tert butyl ether	102	-	70-130	-	
p/m-Xylene	110	-	70-130	-	
o-Xylene	107	-	70-130	-	
Naphthalene	122	-	70-130	-	
Styrene	103	-	70-130	-	
tert-Butyl Alcohol	93	-	70-130	-	
Tetrachloroethene	91	-	70-130	-	
Toluene	98	-	70-130	-	
trans-1,2-Dichloroethene	78	-	70-130	-	
trans-1,3-Dichloropropene	**68**	-	70-130	-	
Trichloroethene	84	-	70-130	-	
Trichlorofluoromethane	90	-	70-130	-	
Vinyl bromide	77	-	70-130	-	
Vinyl chloride	83	-	70-130	-	
Butane	79	-	70-130	-	
Pentane	76	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911101

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 Batch: WG375363-3					
Octane	74	-	70-130	-	
Nonane (C9)	102	-	70-130	-	
Decane (C10)	100	-	70-130	-	
Dodecane (C12)	126	-	70-130	-	
Undecane	109	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: GT-DPV-01					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,3-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4,5-Tetramethylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: GT-DPV-01					
2-Butanone	ND	ND	ppbV	NC	25
o-Chlorotoluene	ND	ND	ppbV	NC	25
2-Ethylthiophene	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
2-Methylthiophene	ND	ND	ppbV	NC	25
3-Chloropropene	ND	ND	ppbV	NC	25
3-Methylthiophene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	27.6	27.4	ppbV	1	25
Benzene	ND	ND	ppbV	NC	25
Benzothiophene	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Carbon disulfide	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: GT-DPV-01					
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.528	0.510	ppbV	3	25
Ethylbenzene	ND	ND	ppbV	NC	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
iso-Propyl Alcohol	86.1	81.1	ppbV	6	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
Naphthalene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: GT-DPV-01					
Styrene	ND	ND	ppbV	NC	25
tert-Butyl Alcohol	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Thiophene	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25
Butane	ND	ND	ppbV	NC	25
Pentane	ND	ND	ppbV	NC	25
Octane	ND	ND	ppbV	NC	25
Nonane (C9)	ND	ND	ppbV	NC	25
Decane (C10)	ND	ND	ppbV	NC	25
Dodecane (C12)	ND	ND	ppbV	NC	25
Undecane	ND	ND	ppbV	NC	25
Indane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375363-5 QC Sample: L0911101-01 Client ID: GT-DPV-01					
Indene	ND	ND	ppbV	NC	25
1-Methylnaphthalene	ND	ND	ppbV	NC	25
2-Methylnaphthalene	ND	ND	ppbV	NC	25

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-01	Date Collected:	08/11/09 10:16
Client ID:	GT-DPV-01	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 15:18		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.019	1.901

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-03	Date Collected:	08/11/09 14:41
Client ID:	GT-DPV-03	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 16:01		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	0.353		%	0.017	1.667

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-06	Date Collected:	08/11/09 11:11
Client ID:	GT-DPV-06	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 16:45		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.015	1.522

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-07	Date Collected:	08/11/09 13:06
Client ID:	GT-DPV-XX	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 17:30		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.019	1.846

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-08	Date Collected:	08/11/09 13:53
Client ID:	GT-SS-01	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 18:17		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	0.161		%	0.022	2.153

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-09	Date Collected:	08/11/09 13:30
Client ID:	GT-SS-02	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 19:03		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	0.220		%	0.017	1.667

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-10	Date Collected:	08/11/09 14:04
Client ID:	GT-SS-03	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 19:50		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	1.90		%	0.017	1.656

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

SAMPLE RESULTS

Lab ID:	L0911101-11	Date Collected:	08/11/09 13:03
Client ID:	GT-SS-XX	Date Received:	08/12/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	08/15/09 20:38		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	1.72		%	0.018	1.829

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0911101
Report Date: 08/20/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 51,3C(M)
Analytical Date: 08/15/09 14:42
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01,03,06-11 Batch: WG375643-2				
Helium	ND		%	0.010

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0911101

Report Date: 08/20/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 Batch: WG375643-1					
Helium	94	-	80-120	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-10 QC Sample: L0911101-11 Client ID: GT-SS-XX					
Helium	1.72	1.74	%	1	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-3 QC Sample: L0911101-01 Client ID: GT-DPV-01					
Helium	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-4 QC Sample: L0911101-03 Client ID: GT-DPV-03					
Helium	0.353	0.350	%	1	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-5 QC Sample: L0911101-06 Client ID: GT-DPV-06					
Helium	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-6 QC Sample: L0911101-07 Client ID: GT-DPV-XX					
Helium	ND	ND	%	NC	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-7 QC Sample: L0911101-08 Client ID: GT-SS-01					
Helium	0.161	0.161	%	0	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-8 QC Sample: L0911101-09 Client ID: GT-SS-02					
Helium	0.220	0.220	%	0	5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01,03,06-11 QC Batch ID: WG375643-9 QC Sample: L0911101-10 Client ID: GT-SS-03					
Helium	1.90	1.91	%	1	5

Project Name: GASTOWN FORMER MGP **Lab Number:** L0911101

Project Number: 091220 **Report Date:** 08/20/09

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0911101-01	GT-DPV-01	0307	#90 SV		-	-	39	39	0
L0911101-01	GT-DPV-01	455	2.7L Can	I0909315	-29.4	-2.9	-	-	-
L0911101-02	GT-DPV-02	0077	#30 SV		-	-	38	39	3
L0911101-02	GT-DPV-02	395	2.7L Can	I0909315	-29.4	-29.1	-	-	-
L0911101-03	GT-DPV-03	0316	#90 AMB		-	-	38	59	43
L0911101-03	GT-DPV-03	164	2.7L Can	I0909315	-29.4	-4.0	-	-	-
L0911101-04	GT-DPV-04	0273	#16 AMB		-	-	41	10	122
L0911101-04	GT-DPV-04	176	2.7L Can	I0909315	-29.4	-27.0	-	-	-
L0911101-05	GT-DPV-05	0301	#90 SV		-	-	38	60	45
L0911101-05	GT-DPV-05	542	2.7L Can	I0909315	-29.4	-29.4	-	-	-
L0911101-06	GT-DPV-06	0100	#30 SV		-	-	41	47	14
L0911101-06	GT-DPV-06	543	2.7L Can	I0909315	-29.4	-1.1	-	-	-
L0911101-07	GT-DPV-XX	0267	#90 SV		-	-	37	38	3
L0911101-07	GT-DPV-XX	522	2.7L Can	I0909315	-29.4	-4.0	-	-	-
L0911101-08	GT-SS-01	0336	#30 SV		-	-	40	41	2
L0911101-08	GT-SS-01	382	2.7L Can	I0909315	-29.4	-5.4	-	-	-
L0911101-09	GT-SS-02	0359	#90 SV		-	-	40	67	50

Project Name: GASTOWN FORMER MGP **Lab Number:** L0911101

Project Number: 091220 **Report Date:** 08/20/09

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0911101-09	GT-SS-02	140	2.7L Can	I0909315	-29.4	-2.3	-	-	-
L0911101-10	GT-SS-03	0180	#90 AMB		-	-	38	61	46
L0911101-10	GT-SS-03	1718	2.7L Can	I0909315	-29.4	-1.6	-	-	-
L0911101-11	GT-SS-XX	0347	#30 SV		-	-	38	40	5
L0911101-11	GT-SS-XX	137	2.7L Can	I0909315	-29.4	-4.8	-	-	-
L0911101-12	CAN-570	0446	#90 SV		-	-	39	32	20
L0911101-12	CAN-570	570	2.7L Can	I0909315	-29.4	-29.2	-	-	-
L0911101-13	CAN-481	0084	#30 AMB		-	-	39	40	3
L0911101-13	CAN-481	481	2.7L Can	I0909315	-29.4	-29.2	-	-	-
L0911101-14	CAN-156	0268	#20 SV		-	-	39	40	3
L0911101-14	CAN-156	156	2.7L Can	I0909315	-29.4	-29.4	-	-	-

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0911101
Report Date: 08/20/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0911101-01A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-02A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L0911101-03A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-04A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L0911101-05A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L0911101-06A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-07A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-08A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-09A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-10A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-11A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L0911101-12A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L0911101-13A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L0911101-14A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()

*Hold days indicated by values in parentheses

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0911101
Project Number:	091220	**Report Date:**	08/20/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0911101
Project Number:	091220	**Report Date:**	08/20/09

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

51 Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources. Method 3C. Appendix A, Part 60, 40 CFR (Code of Federal Regulations). June 20, 1996.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

AIR ANALYSIS

PAGE 1 OF 2

ALPHA ANALYTICAL — *CHAIN OF CUSTODY*

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L091101

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Dr
Woburn, MA 01801
Phone: 781-721-4000
Fax: 781-721-4073
Email: ~~TAD 8-11-09~~ rsiegener@geiconsultants.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gastown Former MGP
Project Location: Tonawanda, NY
Project #: 091220
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH *(only confirmed if pre-approved!)*
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☒ EMAIL (standard pdf report)
☐ Additional Deliverables: _____
Report to: *(if different than Project Manager)* Ray Siegener

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments: Please Analyze for Napthalene and Henzum (method 3C) In addition to TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	ID - Flow Controller	ANALYSIS TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
11101-1	GT-DPV-01	8-11-09	0909	1016	30	3	SV	TAD	2.7L	455	0307	X							
-2	GT-DPV-02		0919	1145	30	30		TAD		395	0077	X							
-3	GT-DPV-03		1108	1441	28.5	2		TAD		164	0316	X							
-4	GT-DPV-04		0940	1149	28	25		TAD		176	0273	X							may be water in Canister
-5	GT-DPV-05		1101	1325	30	30		TAD		542	0301	X							
-6	GT-DPV-06		1004	1111	30	2		TAD		543	0100	X							
-7	GT-DPV-XX		~~1209~~ 1114 TAD 8-11-09	1306	28	3		TAD		522	0267	X							
-8	GT-SS-01		1247	1353	30	5		TAD		382	0336	X							
-9	GT-SS-02		1251	1330	28	0		TAD		140	0359	X							
-10	GT-SS-03		1308	1404	30	3		TAD		1718	0100	X							

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
TAD Geigle	8-11-09/1745	FedEx TOGO N. Falls Blvd	8/11/09 / 1745
FedEx		T. Quigley	8/12/09 11:07

Form No: 101-02 (19-Jun-09)

08200915:14

AIR ANALYSIS

PAGE 1 OF 2

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L0911101

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Dr.
Woburn, MA 01801
Phone: 781-721-4000
Fax: 781-721-4073
Email: rsiegener@geiconsultants.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gasstown Former MGP
Project Location: Tonawanda, NY
Project #: 091220
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☒ EMAIL (standard pdf report)
☐ Additional Deliverables: _____

Report to: (if different than Project Manager)
Rax Siegener

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments: Please analyze for Napthalene and Helium (method 3C) in addition to TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4/TO-10	Sample Comments (i.e. PID)
11101-11	GT-55-XX	8-11-09	1200	1303	29	3	SV	TAP	2.7L	137	0347		X						Plus Napthalene and Helium method 3C

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Fed Ex	8-11-09/1745	FedEx 1060 W. Falls Blvd	8-11-09 /1745
			8/12/09 1100

Form No: 101-02 (19-Jun-09)

08200915:14

ANALYTICAL REPORT

Lab Number:	L0913068
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Raymond Siegener
Project Name:	GASTOWN FORMER MGP
Project Number:	091220
Report Date:	09/24/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913068
Report Date: 09/24/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0913068-01	DPW-206	TONAWANDA, NY	09/16/09 10:10
L0913068-02	DPW-209	TONAWANDA, NY	09/16/09 12:35
L0913068-03	DPW-211	TONAWANDA, NY	09/16/09 14:50
L0913068-04	DPW-XX	TONAWANDA, NY	09/16/09 12:00
L0913068-05	GT-FB091609	TONAWANDA, NY	09/16/09 16:30
L0913068-06	GT-TB-091609	TONAWANDA, NY	09/16/09 00:00

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913068
Project Number:	091220	**Report Date:**	09/24/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

L0913068-04: Headspace was noted in the sample containers submitted for Volatile Organics. The analysis was canceled at the client's request.

Semivolatile Organics

The WG380506-2 LCS recovery associated with L0913068-01 through -05 was above the acceptance criteria for 2,4-Dinitrotoluene (102%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

The WG380506-4 MS recoveries associated with L0913068-02 were outside the acceptance criteria for

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913068
Project Number:	091220	**Report Date:**	09/24/09

Case Narrative (continued)

several compounds. The results of the sample utilized for the MS are considered to have a potentially high bias for 1,2-Dichlorobenzene (36%), 1,4-Dichlorobenzene (35%), 2,4-Dinitrotoluene (100%), n-Nitrosodi-n-propylamine (40%), 4-Nitrophenol (83%) and Pentachlorophenol (110%). In addition, the associated WG380506-4/-5 MS/MSD RPD is above the acceptance criteria for n-Nitrosodi-n-propylamine (33%).
The WG380506-4/-5 MS/MSD RPDs associated with L0913068-02 are above the acceptance criteria for 2-Chlorophenol (41%) and 2-Nitrophenol (32%); however, the individual MS/MSD recoveries are within method limits. The results of the associated samples are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth A. Simmons

Title: Technical Director/Representative Date: 09/24/09

ORGANICS

VOLATILES

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-01	Date Collected:	09/16/09 10:10
Client ID:	DPW-206	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/22/09 16:22		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-01 Date Collected: 09/16/09 10:10

Client ID: DPW-206 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-01 Date Collected: 09/16/09 10:10

Client ID: DPW-206 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-02	Date Collected:	09/16/09 12:35
Client ID:	DPW-209	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/22/09 16:57		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.63		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-02 Date Collected: 09/16/09 12:35

Client ID: DPW-209 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	0.65		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-02 Date Collected: 09/16/09 12:35

Client ID: DPW-209 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-03	Date Collected:	09/16/09 14:50
Client ID:	DPW-211	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/22/09 17:32		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-03 Date Collected: 09/16/09 14:50

Client ID: DPW-211 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-03 Date Collected: 09/16/09 14:50

Client ID: DPW-211 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-05	Date Collected:	09/16/09 16:30
Client ID:	GT-FB091609	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/22/09 18:42		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-05 Date Collected: 09/16/09 16:30

Client ID: GT-FB091609 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-05 Date Collected: 09/16/09 16:30

Client ID: GT-FB091609 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-06	Date Collected:	09/16/09 00:00
Client ID:	GT-TB-091609	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/22/09 19:16		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-06 Date Collected: 09/16/09 00:00

Client ID: GT-TB-091609 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-06 Date Collected: 09/16/09 00:00

Client ID: GT-TB-091609 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913068
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/22/09 15:47
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06 Batch: WG380943-2				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913068
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/22/09 15:47
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06 Batch: WG380943-2				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Acrylonitrile	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
Vinyl acetate	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913068
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/22/09 15:47
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06 Batch: WG380943-2				
n-Propylbenzene	ND		ug/l	0.50
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
1,4-Diethylbenzene	ND		ug/l	2.0
4-Ethyltoluene	ND		ug/l	2.0
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0
Ethyl ether	ND		ug/l	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913068

Report Date: 09/24/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG380943-1					
Chlorobenzene	103	-	75-130	-	20
Benzene	106	-	76-127	-	20
Toluene	104	-	76-125	-	20
1,1-Dichloroethene	102	-	61-145	-	20
Trichloroethene	100	-	71-120	-	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91				70-130
Toluene-d8	98				70-130
4-Bromofluorobenzene	104				70-130
Dibromofluoromethane	99				70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913068
Report Date: 09/24/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06 QC Batch ID: WG380943-3 WG380943-4 QC Sample: L0913068-02 Client ID: DPW-209									
Chlorobenzene	ND	10	9.9	99	9.5	95	75-130	4	20
Benzene	ND	10	11	107	10	101	76-127	6	20
Toluene	ND	10	10	103	9.9	99	76-125	4	20
1,1-Dichloroethene	ND	10	10	103	9.8	98	61-145	5	20
Trichloroethene	0.63	10	10	99	9.9	93	71-120	6	20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	100		99		70-130
Toluene-d8	97		98		70-130

SEMIVOLATILES

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913068
Report Date: 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-01	Date Collected:	09/16/09 10:10
Client ID:	DPW-206	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/19/09 16:12
Analytical Date:	09/23/09 14:33		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-01 Date Collected: 09/16/09 10:10

Client ID: DPW-206 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-01 Date Collected: 09/16/09 10:10

Client ID: DPW-206 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	97		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-02	Date Collected:	09/16/09 12:35
Client ID:	DPW-209	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/19/09 16:12
Analytical Date:	09/23/09 14:56		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-02 Date Collected: 09/16/09 12:35

Client ID: DPW-209 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-02 Date Collected: 09/16/09 12:35

Client ID: DPW-209 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	95		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-03	Date Collected:	09/16/09 14:50
Client ID:	DPW-211	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/19/09 16:12
Analytical Date:	09/23/09 15:20		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-03 Date Collected: 09/16/09 14:50

Client ID: DPW-211 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-03 Date Collected: 09/16/09 14:50

Client ID: DPW-211 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	109		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-04	Date Collected:	09/16/09 12:00
Client ID:	DPW-XX	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/19/09 16:12
Analytical Date:	09/23/09 15:43		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	16		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-04 Date Collected: 09/16/09 12:00

Client ID: DPW-XX Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-04 Date Collected: 09/16/09 12:00

Client ID: DPW-XX Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	103		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913068-05	Date Collected:	09/16/09 16:30
Client ID:	GT-FB091609	Date Received:	09/17/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/19/09 16:12
Analytical Date:	09/23/09 16:07		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	4.9	1
1,2,4-Trichlorobenzene	ND		ug/l	4.9	1
Hexachlorobenzene	ND		ug/l	4.9	1
Bis(2-chloroethyl)ether	ND		ug/l	4.9	1
2-Chloronaphthalene	ND		ug/l	5.9	1
1,2-Dichlorobenzene	ND		ug/l	4.9	1
1,3-Dichlorobenzene	ND		ug/l	4.9	1
1,4-Dichlorobenzene	ND		ug/l	4.9	1
3,3'-Dichlorobenzidine	ND		ug/l	49	1
2,4-Dinitrotoluene	ND		ug/l	5.9	1
2,6-Dinitrotoluene	ND		ug/l	4.9	1
Fluoranthene	ND		ug/l	4.9	1
4-Chlorophenyl phenyl ether	ND		ug/l	4.9	1
4-Bromophenyl phenyl ether	ND		ug/l	4.9	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.9	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.9	1
Hexachlorobutadiene	ND		ug/l	9.9	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	4.9	1
Isophorone	ND		ug/l	4.9	1
Naphthalene	ND		ug/l	4.9	1
Nitrobenzene	ND		ug/l	4.9	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.9	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.9	1
Butyl benzyl phthalate	ND		ug/l	4.9	1
Di-n-butylphthalate	ND		ug/l	4.9	1
Di-n-octylphthalate	ND		ug/l	4.9	1
Diethyl phthalate	ND		ug/l	4.9	1
Dimethyl phthalate	ND		ug/l	4.9	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-05 Date Collected: 09/16/09 16:30

Client ID: GT-FB091609 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	4.9	1
Benzo(a)pyrene	ND		ug/l	4.9	1
Benzo(b)fluoranthene	ND		ug/l	4.9	1
Benzo(k)fluoranthene	ND		ug/l	4.9	1
Chrysene	ND		ug/l	4.9	1
Acenaphthylene	ND		ug/l	4.9	1
Anthracene	ND		ug/l	4.9	1
Benzo(ghi)perylene	ND		ug/l	4.9	1
Fluorene	ND		ug/l	4.9	1
Phenanthrene	ND		ug/l	4.9	1
Dibenzo(a,h)anthracene	ND		ug/l	4.9	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	6.9	1
Pyrene	ND		ug/l	4.9	1
Biphenyl	ND		ug/l	4.9	1
4-Chloroaniline	ND		ug/l	4.9	1
2-Nitroaniline	ND		ug/l	4.9	1
3-Nitroaniline	ND		ug/l	4.9	1
4-Nitroaniline	ND		ug/l	6.9	1
Dibenzofuran	ND		ug/l	4.9	1
2-Methylnaphthalene	ND		ug/l	4.9	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	4.9	1
P-Chloro-M-Cresol	ND		ug/l	4.9	1
2-Chlorophenol	ND		ug/l	5.9	1
2,4-Dichlorophenol	ND		ug/l	9.9	1
2,4-Dimethylphenol	ND		ug/l	9.9	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	9.9	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	9.9	1
Phenol	ND		ug/l	6.9	1
2-Methylphenol	ND		ug/l	5.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.9	1
2,4,5-Trichlorophenol	ND		ug/l	4.9	1
Benzoic Acid	ND		ug/l	49	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913068

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913068-05 Date Collected: 09/16/09 16:30

Client ID: GT-FB091609 Date Received: 09/17/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	9.9	1
Carbazole	ND		ug/l	4.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	106		33-120

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913068
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 11:49
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG380506-1				
Acenaphthene	ND		ug/l	5.0
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Hexachlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
2-Chloronaphthalene	ND		ug/l	6.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Fluoranthene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorobutadiene	ND		ug/l	10
Hexachlorocyclopentadiene	ND		ug/l	30
Hexachloroethane	ND		ug/l	5.0
Isophorone	ND		ug/l	5.0
Naphthalene	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
n-Nitrosodi-n-propylamine	ND		ug/l	5.0
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Benzo(a)anthracene	ND		ug/l	5.0

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913068
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 11:49
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG380506-1				
Benzo(a)pyrene	ND		ug/l	5.0
Benzo(b)fluoranthene	ND		ug/l	5.0
Benzo(k)fluoranthene	ND		ug/l	5.0
Chrysene	ND		ug/l	5.0
Acenaphthylene	ND		ug/l	5.0
Anthracene	ND		ug/l	5.0
Benzo(ghi)perylene	ND		ug/l	5.0
Fluorene	ND		ug/l	5.0
Phenanthrene	ND		ug/l	5.0
Dibenzo(a,h)anthracene	ND		ug/l	5.0
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0
Pyrene	ND		ug/l	5.0
Biphenyl	ND		ug/l	5.0
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	ND		ug/l	5.0
2-Methylnaphthalene	ND		ug/l	5.0
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20
Acetophenone	ND		ug/l	20
2,4,6-Trichlorophenol	ND		ug/l	5.0
P-Chloro-M-Cresol	ND		ug/l	5.0
2-Chlorophenol	ND		ug/l	6.0
2,4-Dichlorophenol	ND		ug/l	10
2,4-Dimethylphenol	ND		ug/l	10
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
4,6-Dinitro-o-cresol	ND		ug/l	20
Pentachlorophenol	ND		ug/l	10

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913068
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 11:49
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/19/09 16:12

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG380506-1				
Phenol	ND		ug/l	7.0
2-Methylphenol	ND		ug/l	6.0
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0
2,4,5-Trichlorophenol	ND		ug/l	5.0
Benzoic Acid	ND		ug/l	50
Benzyl Alcohol	ND		ug/l	10
Carbazole	ND		ug/l	5.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	92		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913068

Report Date: 09/24/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG380506-2 WG380506-3					
Acenaphthene	63	60	46-118	5	30
1,2,4-Trichlorobenzene	47	51	39-98	8	30
2-Chloronaphthalene	77	75	40-140	3	30
1,2-Dichlorobenzene	42	50	40-140	17	30
1,4-Dichlorobenzene	40	50	36-97	22	30
2,4-Dinitrotoluene	**102**	96	24-96	6	30
2,6-Dinitrotoluene	93	85	40-140	9	30
Fluoranthene	102	99	40-140	3	30
4-Chlorophenyl phenyl ether	77	73	40-140	5	30
n-Nitrosodi-n-propylamine	52	53	41-116	2	30
Butyl benzyl phthalate	103	102	40-140	1	30
Anthracene	92	89	40-140	3	30
Pyrene	96	94	26-127	2	30
P-Chloro-M-Cresol	80	76	23-97	5	30
2-Chlorophenol	47	56	27-123	17	30
2-Nitrophenol	64	68	30-130	6	30
4-Nitrophenol	56	55	10-80	2	30
2,4-Dinitrophenol	112	103	20-130	8	30
Pentachlorophenol	91	92	9-103	1	30
Phenol	25	26	12-110	4	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913068

Report Date: 09/24/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG380506-2 WG380506-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		36		21-120
Phenol-d6	23		24		10-120
Nitrobenzene-d5	53		57		23-120
2-Fluorobiphenyl	65		63		15-120
2,4,6-Tribromophenol	105		100		10-120
4-Terphenyl-d14	100		95		33-120

Matrix Spike Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913068
Report Date: 09/24/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG380506-4 WG380506-5 QC Sample: L0913068-02 Client ID: DPW-209									
Acenaphthene	ND	83.3	43	52	52	62	46-118	18	30
1,2,4-Trichlorobenzene	ND	83.3	33	40	42	50	39-98	22	30
2-Chloronaphthalene	ND	83.3	54	65	66	79	40-140	19	30
1,2-Dichlorobenzene	ND	83.3	30	**36**	40	48	40-140	29	30
1,4-Dichlorobenzene	ND	83.3	29	**35**	38	46	36-97	27	30
2,4-Dinitrotoluene	ND	83.3	83	**100**	79	95	24-96	5	30
2,6-Dinitrotoluene	ND	83.3	71	85	72	86	40-140	1	30
Fluoranthene	ND	83.3	89	110	85	100	40-140	10	30
4-Chlorophenyl phenyl ether	ND	83.3	57	68	63	76	40-140	11	30
n-Nitrosodi-n-propylamine	ND	83.3	33	**40**	47	56	41-116	**33**	30
Butyl benzyl phthalate	ND	83.3	87	100	84	100	40-140	0	30
Anthracene	ND	83.3	79	95	77	92	40-140	3	30
Pyrene	ND	83.3	83	100	80	96	26-127	4	30
P-Chloro-M-Cresol	ND	83.3	65	78	69	83	23-97	6	30
2-Chlorophenol	ND	83.3	34	41	52	62	27-123	**41**	30
2-Nitrophenol	ND	83.3	43	52	60	72	30-130	**32**	30
4-Nitrophenol	ND	83.3	69	**83**	67	80	10-80	4	30
2,4-Dinitrophenol	ND	83.3	91	110	86	100	20-130	10	30
Pentachlorophenol	ND	83.3	88	**110**	85	100	9-103	10	30
Phenol	ND	83.3	26	31	33	40	12-110	25	30

Matrix Spike Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913068
Report Date: 09/24/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG380506-4 WG380506-5 QC Sample: L0913068-02
Client ID: DPW-209

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	110		109		10-120
2-Fluorobiphenyl	50		67		15-120
2-Fluorophenol	33		51		21-120
4-Terphenyl-d14	99		96		33-120
Nitrobenzene-d5	42		62		23-120
Phenol-d6	27		40		10-120

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913068
Report Date: 09/24/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Present/Intact
C	Present/Intact
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0913068-01A	Vial HCl preserved	A	N/A	5.3	Y	Present/Intact	NYTCL-8260(14)
L0913068-01B	Vial HCl preserved	A	N/A	5.3	Y	Present/Intact	NYTCL-8260(14)
L0913068-01C	Vial HCl preserved	A	N/A	5.3	Y	Present/Intact	NYTCL-8260(14)
L0913068-01D	Amber 1000ml unpreserved	A	7	5.3	Y	Present/Intact	NYTCL-8270(7)
L0913068-01E	Amber 1000ml unpreserved	A	7	5.3	Y	Present/Intact	NYTCL-8270(7)
L0913068-02A	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-02B	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-02C	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-02D	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-02E	Amber 1000ml unpreserved	B	7	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-02F	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-02G	Amber 1000ml unpreserved	B	7	5.2	NA	Present/Intact	NYTCL-8270(7)
L0913068-02H	Amber 1000ml unpreserved	B	7	5.2	Y	Present/Intact	NYTCL-8270(7)
L0913068-02I	Amber 1000ml unpreserved	B	7	5.2	Y	Present/Intact	NYTCL-8270(7)
L0913068-02J	Amber 1000ml unpreserved	B	7	5.2	Y	Present/Intact	NYTCL-8270(7)
L0913068-03A	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-03B	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-03C	Vial HCl preserved	B	N/A	5.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-03D	Amber 1000ml unpreserved	B	7	5.2	NA	Present/Intact	NYTCL-8270(7)
L0913068-03E	Amber 1000ml unpreserved	B	7	5.2	NA	Present/Intact	NYTCL-8270(7)
L0913068-04A	Vial HCl preserved	A	N/A	5.3	NA	Present/Intact	NYTCL-8270(7)
L0913068-04B	Vial HCl preserved	A	N/A	5.3	NA	Present/Intact	NYTCL-8270(7)
L0913068-04C	Vial HCl preserved	A	N/A	5.3	NA	Present/Intact	NYTCL-8270(7)
L0913068-04D	Amber 1000ml unpreserved	A	7	5.3	NA	Present/Intact	NYTCL-8270(7)
L0913068-04E	Amber 1000ml unpreserved	A	7	5.3	NA	Present/Intact	NYTCL-8270(7)
L0913068-05A	Vial HCl preserved	C	N/A	3.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-05B	Vial HCl preserved	C	N/A	3.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-05C	Vial HCl preserved	C	N/A	3.2	NA	Present/Intact	NYTCL-8260(14)

*Hold days indicated by values in parentheses

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913068
Report Date: 09/24/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0913068-05D	Amber 1000ml unpreserved	C	5	3.2	NA	Present/Intact	NYTCL-8270(7)
L0913068-05E	Amber 1000ml unpreserved	C	5	3.2	NA	Present/Intact	NYTCL-8270(7)
L0913068-06A	Vial HCl preserved	C	N/A	3.2	NA	Present/Intact	NYTCL-8260(14)
L0913068-06B	Vial HCl preserved	C	N/A	3.2	NA	Present/Intact	NYTCL-8260(14)

*Hold days indicated by values in parentheses

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913068
Project Number:	091220	**Report Date:**	09/24/09

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

NI - Not Ignitable.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913068
Project Number:	091220	**Report Date:**	09/24/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 22, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.
Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D
Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Non-NELAC Approved Analytes
The following analytes are considered non-NELAC certifiable parameters for the listed method: **EPA 8260B:** Freon-113. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

09240916:36

CHAIN OF CUSTODY

PAGE 1 OF _____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/16/09

ALPHA Job #: L0913068

Client Information

Client: GEI ConsuHants, Inc.
Address: 400 Unicorn Park Dr.
Woburn, MA 01801
Phone: ~~(781) 424~~-(781) 721-4000
Fax:
Email: labdata@geiconsuHants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gastown Former MGP
Project Location: Tonawanda, NY
Project #: 091220
Project Manager: Bill Simmons
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
USC NY State TOG	1st-ASP CAT B Deliverable.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☑ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
*HOLD PIANO ANALYSIS *please send copy of signed chain to Ray Siegener.
**EXTRACT AND HOLD PAH-SIM.

SAMPLE HANDLING
Filtration
☐ Done
☑ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260B	SVOC 8270	PIANO*	SVOC 8270-SIM**	Sample Specific Comments	TOTAL # BOTTLES
13068-1	DPW-206	9/16/09	1010	GW	SSH	X	X	X	X		10
2	DPW-209		1235			X	X	X	X	+ MS/MSD	20
3	DPW-211		1450			X	X	X	X		10
4	DPW-XX		1200			X	X				5
5	GT-FB091609		1630			X	X	X	X		10
6	GT-TB-091609		NA			X					2

Container Type	V	A	V	A			
Preservative	B	A	B	A			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	9/16/09 1745		9/17/09 10:08

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L0913225
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Raymond Siegener
Project Name:	GASTOWN FORMER MGP
Project Number:	091220
Report Date:	09/24/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913225
Report Date: 09/24/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0913225-01	DPW-207	TONAWANDA, NY	09/17/09 09:30
L0913225-02	DPW-203	TONAWANDA, NY	09/17/09 10:10
L0913225-03	GT-MW-74	TONAWANDA, NY	09/17/09 12:35
L0913225-04	DPW-210	TONAWANDA, NY	09/17/09 11:38
L0913225-05	DPW-204	TONAWANDA, NY	09/17/09 15:45
L0913225-06	DPW-202	TONAWANDA, NY	09/17/09 15:51
L0913225-07	GT-TB-091709	TONAWANDA, NY	09/17/09 00:00
L0913225-08	DPW-208	TONAWANDA, NY	09/18/09 08:50
L0913225-09	GT-TB-091809	TONAWANDA, NY	09/18/09 00:00

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225
Project Number: 091220 **Report Date:** 09/24/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

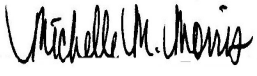
Volatile Organics

The WG381157-3 Method Blank, associated with L0913225-01 through -09, has a concentration above the reporting limit for n-Butylbenzene. Since the samples were non-detect for this target analyte, no further actions were taken. The results of the original analysis are reported.

Semivolatile Organics

The WG380864-2 LCS recovery, associated with L0913225-01 through -06 and -08, was above the acceptance criteria for 2,4-Dinitrotoluene (99%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative Date: 09/24/09

ORGANICS

VOLATILES

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-01	Date Collected:	09/17/09 09:30
Client ID:	DPW-207	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 16:32		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-01 Date Collected: 09/17/09 09:30

Client ID: DPW-207 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-01 Date Collected: 09/17/09 09:30

Client ID: DPW-207 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-02	Date Collected:	09/17/09 10:10
Client ID:	DPW-203	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 17:08		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-02 Date Collected: 09/17/09 10:10

Client ID: DPW-203 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-02 Date Collected: 09/17/09 10:10

Client ID: DPW-203 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-03	Date Collected:	09/17/09 12:35
Client ID:	GT-MW-74	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 17:43		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-03 Date Collected: 09/17/09 12:35

Client ID: GT-MW-74 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-03 Date Collected: 09/17/09 12:35

Client ID: GT-MW-74 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-04	Date Collected:	09/17/09 11:38
Client ID:	DPW-210	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 18:18		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-04 Date Collected: 09/17/09 11:38

Client ID: DPW-210 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	1.8		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-04 Date Collected: 09/17/09 11:38

Client ID: DPW-210 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-05	Date Collected:	09/17/09 15:45
Client ID:	DPW-204	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 18:54		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-05 Date Collected: 09/17/09 15:45

Client ID: DPW-204 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-05 Date Collected: 09/17/09 15:45

Client ID: DPW-204 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-06	Date Collected:	09/17/09 15:51
Client ID:	DPW-202	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 19:29		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-06 Date Collected: 09/17/09 15:51

Client ID: DPW-202 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-06 Date Collected: 09/17/09 15:51

Client ID: DPW-202 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-07	Date Collected:	09/17/09 00:00
Client ID:	GT-TB-091709	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 20:04		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-07 Date Collected: 09/17/09 00:00

Client ID: GT-TB-091709 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-07 Date Collected: 09/17/09 00:00

Client ID: GT-TB-091709 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-08	Date Collected:	09/18/09 08:50
Client ID:	DPW-208	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 20:39		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-08 Date Collected: 09/18/09 08:50

Client ID: DPW-208 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-08 Date Collected: 09/18/09 08:50

Client ID: DPW-208 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-09	Date Collected:	09/18/09 00:00
Client ID:	GT-TB-091809	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/23/09 21:14		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-09 Date Collected: 09/18/09 00:00

Client ID: GT-TB-091809 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-09 Date Collected: 09/18/09 00:00

Client ID: GT-TB-091809 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913225
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/23/09 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG381157-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913225
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/23/09 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG381157-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Acrylonitrile	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
Vinyl acetate	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	0.61		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913225
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/23/09 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG381157-3				
n-Propylbenzene	ND		ug/l	0.50
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
1,4-Diethylbenzene	ND		ug/l	2.0
4-Ethyltoluene	ND		ug/l	2.0
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0
Ethyl ether	ND		ug/l	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913225

Report Date: 09/24/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG381157-1 WG381157-2					
Chlorobenzene	99	92	75-130	7	20
Benzene	101	92	76-127	9	20
Toluene	101	94	76-125	7	20
1,1-Dichloroethene	99	92	61-145	7	20
Trichloroethene	97	88	71-120	10	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		83		70-130
Toluene-d8	100		103		70-130
4-Bromofluorobenzene	106		103		70-130
Dibromofluoromethane	98		95		70-130

SEMIVOLATILES

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-01	Date Collected:	09/17/09 09:30
Client ID:	DPW-207	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/22/09 18:14
Analytical Date:	09/23/09 17:40		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-01 Date Collected: 09/17/09 09:30

Client ID: DPW-207 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-01 Date Collected: 09/17/09 09:30

Client ID: DPW-207 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	101		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-02	Date Collected:	09/17/09 10:10
Client ID:	DPW-203	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/22/09 18:14
Analytical Date:	09/23/09 18:04		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	4.8	1
1,2,4-Trichlorobenzene	ND		ug/l	4.8	1
Hexachlorobenzene	ND		ug/l	4.8	1
Bis(2-chloroethyl)ether	ND		ug/l	4.8	1
2-Chloronaphthalene	ND		ug/l	5.8	1
1,2-Dichlorobenzene	ND		ug/l	4.8	1
1,3-Dichlorobenzene	ND		ug/l	4.8	1
1,4-Dichlorobenzene	ND		ug/l	4.8	1
3,3'-Dichlorobenzidine	ND		ug/l	48	1
2,4-Dinitrotoluene	ND		ug/l	5.8	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1
Fluoranthene	ND		ug/l	4.8	1
4-Chlorophenyl phenyl ether	ND		ug/l	4.8	1
4-Bromophenyl phenyl ether	ND		ug/l	4.8	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	1
Hexachlorobutadiene	ND		ug/l	9.7	1
Hexachlorocyclopentadiene	ND		ug/l	29	1
Hexachloroethane	ND		ug/l	4.8	1
Isophorone	ND		ug/l	4.8	1
Naphthalene	ND		ug/l	4.8	1
Nitrobenzene	ND		ug/l	4.8	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	14	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.8	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.8	1
Butyl benzyl phthalate	ND		ug/l	4.8	1
Di-n-butylphthalate	ND		ug/l	4.8	1
Di-n-octylphthalate	ND		ug/l	4.8	1
Diethyl phthalate	ND		ug/l	4.8	1
Dimethyl phthalate	ND		ug/l	4.8	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-02 Date Collected: 09/17/09 10:10

Client ID: DPW-203 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	4.8	1
Benzo(a)pyrene	ND		ug/l	4.8	1
Benzo(b)fluoranthene	ND		ug/l	4.8	1
Benzo(k)fluoranthene	ND		ug/l	4.8	1
Chrysene	ND		ug/l	4.8	1
Acenaphthylene	ND		ug/l	4.8	1
Anthracene	ND		ug/l	4.8	1
Benzo(ghi)perylene	ND		ug/l	4.8	1
Fluorene	ND		ug/l	4.8	1
Phenanthrene	ND		ug/l	4.8	1
Dibenzo(a,h)anthracene	ND		ug/l	4.8	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	6.8	1
Pyrene	ND		ug/l	4.8	1
Biphenyl	ND		ug/l	4.8	1
4-Chloroaniline	ND		ug/l	4.8	1
2-Nitroaniline	ND		ug/l	4.8	1
3-Nitroaniline	ND		ug/l	4.8	1
4-Nitroaniline	ND		ug/l	6.8	1
Dibenzofuran	ND		ug/l	4.8	1
2-Methylnaphthalene	ND		ug/l	4.8	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	19	1
Acetophenone	ND		ug/l	19	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	1
P-Chloro-M-Cresol	ND		ug/l	4.8	1
2-Chlorophenol	ND		ug/l	5.8	1
2,4-Dichlorophenol	ND		ug/l	9.7	1
2,4-Dimethylphenol	ND		ug/l	9.7	1
2-Nitrophenol	ND		ug/l	19	1
4-Nitrophenol	ND		ug/l	9.7	1
2,4-Dinitrophenol	ND		ug/l	29	1
4,6-Dinitro-o-cresol	ND		ug/l	19	1
Pentachlorophenol	ND		ug/l	9.7	1
Phenol	ND		ug/l	6.8	1
2-Methylphenol	ND		ug/l	5.8	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.8	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	1
Benzoic Acid	ND		ug/l	48	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-02 Date Collected: 09/17/09 10:10

Client ID: DPW-203 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	9.7	1
Carbazole	ND		ug/l	4.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	29		21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	89		33-120

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913225
Report Date: 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-03	Date Collected:	09/17/09 12:35
Client ID:	GT-MW-74	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/22/09 18:14
Analytical Date:	09/23/09 18:27		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	4.9	1
1,2,4-Trichlorobenzene	ND		ug/l	4.9	1
Hexachlorobenzene	ND		ug/l	4.9	1
Bis(2-chloroethyl)ether	ND		ug/l	4.9	1
2-Chloronaphthalene	ND		ug/l	5.9	1
1,2-Dichlorobenzene	ND		ug/l	4.9	1
1,3-Dichlorobenzene	ND		ug/l	4.9	1
1,4-Dichlorobenzene	ND		ug/l	4.9	1
3,3'-Dichlorobenzidine	ND		ug/l	49	1
2,4-Dinitrotoluene	ND		ug/l	5.9	1
2,6-Dinitrotoluene	ND		ug/l	4.9	1
Fluoranthene	ND		ug/l	4.9	1
4-Chlorophenyl phenyl ether	ND		ug/l	4.9	1
4-Bromophenyl phenyl ether	ND		ug/l	4.9	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.9	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.9	1
Hexachlorobutadiene	ND		ug/l	9.9	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	4.9	1
Isophorone	ND		ug/l	4.9	1
Naphthalene	ND		ug/l	4.9	1
Nitrobenzene	ND		ug/l	4.9	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.9	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.9	1
Butyl benzyl phthalate	ND		ug/l	4.9	1
Di-n-butylphthalate	ND		ug/l	4.9	1
Di-n-octylphthalate	ND		ug/l	4.9	1
Diethyl phthalate	ND		ug/l	4.9	1
Dimethyl phthalate	ND		ug/l	4.9	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-03 Date Collected: 09/17/09 12:35

Client ID: GT-MW-74 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	4.9	1
Benzo(a)pyrene	ND		ug/l	4.9	1
Benzo(b)fluoranthene	ND		ug/l	4.9	1
Benzo(k)fluoranthene	ND		ug/l	4.9	1
Chrysene	ND		ug/l	4.9	1
Acenaphthylene	ND		ug/l	4.9	1
Anthracene	ND		ug/l	4.9	1
Benzo(ghi)perylene	ND		ug/l	4.9	1
Fluorene	ND		ug/l	4.9	1
Phenanthrene	ND		ug/l	4.9	1
Dibenzo(a,h)anthracene	ND		ug/l	4.9	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	6.9	1
Pyrene	ND		ug/l	4.9	1
Biphenyl	ND		ug/l	4.9	1
4-Chloroaniline	ND		ug/l	4.9	1
2-Nitroaniline	ND		ug/l	4.9	1
3-Nitroaniline	ND		ug/l	4.9	1
4-Nitroaniline	ND		ug/l	6.9	1
Dibenzofuran	ND		ug/l	4.9	1
2-Methylnaphthalene	ND		ug/l	4.9	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	4.9	1
P-Chloro-M-Cresol	ND		ug/l	4.9	1
2-Chlorophenol	ND		ug/l	5.9	1
2,4-Dichlorophenol	ND		ug/l	9.9	1
2,4-Dimethylphenol	ND		ug/l	9.9	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	9.9	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	9.9	1
Phenol	ND		ug/l	6.9	1
2-Methylphenol	ND		ug/l	5.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.9	1
2,4,5-Trichlorophenol	ND		ug/l	4.9	1
Benzoic Acid	ND		ug/l	49	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-03 Date Collected: 09/17/09 12:35

Client ID: GT-MW-74 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	9.9	1
Carbazole	ND		ug/l	4.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	95		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-04	Date Collected:	09/17/09 11:38
Client ID:	DPW-210	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/22/09 18:14
Analytical Date:	09/23/09 18:51		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-04 Date Collected: 09/17/09 11:38

Client ID: DPW-210 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-04 Date Collected: 09/17/09 11:38

Client ID: DPW-210 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	99		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-05	Date Collected:	09/17/09 15:45
Client ID:	DPW-204	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/22/09 18:14
Analytical Date:	09/23/09 19:14		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	4.9	1
1,2,4-Trichlorobenzene	ND		ug/l	4.9	1
Hexachlorobenzene	ND		ug/l	4.9	1
Bis(2-chloroethyl)ether	ND		ug/l	4.9	1
2-Chloronaphthalene	ND		ug/l	5.9	1
1,2-Dichlorobenzene	ND		ug/l	4.9	1
1,3-Dichlorobenzene	ND		ug/l	4.9	1
1,4-Dichlorobenzene	ND		ug/l	4.9	1
3,3'-Dichlorobenzidine	ND		ug/l	49	1
2,4-Dinitrotoluene	ND		ug/l	5.9	1
2,6-Dinitrotoluene	ND		ug/l	4.9	1
Fluoranthene	ND		ug/l	4.9	1
4-Chlorophenyl phenyl ether	ND		ug/l	4.9	1
4-Bromophenyl phenyl ether	ND		ug/l	4.9	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.9	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.9	1
Hexachlorobutadiene	ND		ug/l	9.9	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	4.9	1
Isophorone	ND		ug/l	4.9	1
Naphthalene	ND		ug/l	4.9	1
Nitrobenzene	ND		ug/l	4.9	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.9	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.9	1
Butyl benzyl phthalate	ND		ug/l	4.9	1
Di-n-butylphthalate	ND		ug/l	4.9	1
Di-n-octylphthalate	ND		ug/l	4.9	1
Diethyl phthalate	ND		ug/l	4.9	1
Dimethyl phthalate	ND		ug/l	4.9	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-05 Date Collected: 09/17/09 15:45

Client ID: DPW-204 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	4.9	1
Benzo(a)pyrene	ND		ug/l	4.9	1
Benzo(b)fluoranthene	ND		ug/l	4.9	1
Benzo(k)fluoranthene	ND		ug/l	4.9	1
Chrysene	ND		ug/l	4.9	1
Acenaphthylene	ND		ug/l	4.9	1
Anthracene	ND		ug/l	4.9	1
Benzo(ghi)perylene	ND		ug/l	4.9	1
Fluorene	ND		ug/l	4.9	1
Phenanthrene	ND		ug/l	4.9	1
Dibenzo(a,h)anthracene	ND		ug/l	4.9	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	6.9	1
Pyrene	ND		ug/l	4.9	1
Biphenyl	ND		ug/l	4.9	1
4-Chloroaniline	ND		ug/l	4.9	1
2-Nitroaniline	ND		ug/l	4.9	1
3-Nitroaniline	ND		ug/l	4.9	1
4-Nitroaniline	ND		ug/l	6.9	1
Dibenzofuran	ND		ug/l	4.9	1
2-Methylnaphthalene	ND		ug/l	4.9	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	4.9	1
P-Chloro-M-Cresol	ND		ug/l	4.9	1
2-Chlorophenol	ND		ug/l	5.9	1
2,4-Dichlorophenol	ND		ug/l	9.9	1
2,4-Dimethylphenol	ND		ug/l	9.9	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	9.9	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	9.9	1
Phenol	ND		ug/l	6.9	1
2-Methylphenol	ND		ug/l	5.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.9	1
2,4,5-Trichlorophenol	ND		ug/l	4.9	1
Benzoic Acid	ND		ug/l	49	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-05 Date Collected: 09/17/09 15:45

Client ID: DPW-204 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	9.9	1
Carbazole	ND		ug/l	4.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	93		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-06	Date Collected:	09/17/09 15:51
Client ID:	DPW-202	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/22/09 18:14
Analytical Date:	09/23/09 19:38		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-06 Date Collected: 09/17/09 15:51

Client ID: DPW-202 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-06 Date Collected: 09/17/09 15:51

Client ID: DPW-202 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	92		33-120

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID:	L0913225-08	Date Collected:	09/18/09 08:50
Client ID:	DPW-208	Date Received:	09/19/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/22/09 18:14
Analytical Date:	09/23/09 20:01		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	5.0	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Hexachlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
2-Chloronaphthalene	ND		ug/l	6.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Fluoranthene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorobutadiene	ND		ug/l	10	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Hexachloroethane	ND		ug/l	5.0	1
Isophorone	ND		ug/l	5.0	1
Naphthalene	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-08 Date Collected: 09/18/09 08:50

Client ID: DPW-208 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	5.0	1
Benzo(a)pyrene	ND		ug/l	5.0	1
Benzo(b)fluoranthene	ND		ug/l	5.0	1
Benzo(k)fluoranthene	ND		ug/l	5.0	1
Chrysene	ND		ug/l	5.0	1
Acenaphthylene	ND		ug/l	5.0	1
Anthracene	ND		ug/l	5.0	1
Benzo(ghi)perylene	ND		ug/l	5.0	1
Fluorene	ND		ug/l	5.0	1
Phenanthrene	ND		ug/l	5.0	1
Dibenzo(a,h)anthracene	ND		ug/l	5.0	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	1
Pyrene	ND		ug/l	5.0	1
Biphenyl	ND		ug/l	5.0	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1
2-Methylnaphthalene	ND		ug/l	5.0	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	1
Acetophenone	ND		ug/l	20	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Pentachlorophenol	ND		ug/l	10	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913225

Project Number: 091220 **Report Date:** 09/24/09

SAMPLE RESULTS

Lab ID: L0913225-08 Date Collected: 09/18/09 08:50

Client ID: DPW-208 Date Received: 09/19/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	ND		ug/l	5.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	77		33-120

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913225
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 16:30
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/22/09 18:14

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08 Batch: WG380864-1				
Acenaphthene	ND		ug/l	5.0
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Hexachlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
2-Chloronaphthalene	ND		ug/l	6.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Fluoranthene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorobutadiene	ND		ug/l	10
Hexachlorocyclopentadiene	ND		ug/l	30
Hexachloroethane	ND		ug/l	5.0
Isophorone	ND		ug/l	5.0
Naphthalene	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
n-Nitrosodi-n-propylamine	ND		ug/l	5.0
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Benzo(a)anthracene	ND		ug/l	5.0

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913225
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 16:30
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/22/09 18:14

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08 Batch: WG380864-1				
Benzo(a)pyrene	ND		ug/l	5.0
Benzo(b)fluoranthene	ND		ug/l	5.0
Benzo(k)fluoranthene	ND		ug/l	5.0
Chrysene	ND		ug/l	5.0
Acenaphthylene	ND		ug/l	5.0
Anthracene	ND		ug/l	5.0
Benzo(ghi)perylene	ND		ug/l	5.0
Fluorene	ND		ug/l	5.0
Phenanthrene	ND		ug/l	5.0
Dibenzo(a,h)anthracene	ND		ug/l	5.0
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0
Pyrene	ND		ug/l	5.0
Biphenyl	ND		ug/l	5.0
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	ND		ug/l	5.0
2-Methylnaphthalene	ND		ug/l	5.0
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20
Acetophenone	ND		ug/l	20
2,4,6-Trichlorophenol	ND		ug/l	5.0
P-Chloro-M-Cresol	ND		ug/l	5.0
2-Chlorophenol	ND		ug/l	6.0
2,4-Dichlorophenol	ND		ug/l	10
2,4-Dimethylphenol	ND		ug/l	10
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
4,6-Dinitro-o-cresol	ND		ug/l	20
Pentachlorophenol	ND		ug/l	10

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913225
Report Date: 09/24/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/23/09 16:30
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/22/09 18:14

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08 Batch: WG380864-1				
Phenol	ND		ug/l	7.0
2-Methylphenol	ND		ug/l	6.0
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0
2,4,5-Trichlorophenol	ND		ug/l	5.0
Benzoic Acid	ND		ug/l	50
Benzyl Alcohol	ND		ug/l	10
Carbazole	ND		ug/l	5.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	95		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913225

Report Date: 09/24/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08 Batch: WG380864-2 WG380864-3					
Acenaphthene	75	73	46-118	3	30
1,2,4-Trichlorobenzene	67	67	39-98	0	30
2-Chloronaphthalene	97	100	40-140	3	30
1,2-Dichlorobenzene	63	63	40-140	0	30
1,4-Dichlorobenzene	62	62	36-97	0	30
2,4-Dinitrotoluene	**99**	96	24-96	3	30
2,6-Dinitrotoluene	94	93	40-140	1	30
Fluoranthene	102	103	40-140	1	30
4-Chlorophenyl phenyl ether	84	84	40-140	0	30
n-Nitrosodi-n-propylamine	66	68	41-116	3	30
Butyl benzyl phthalate	102	101	40-140	1	30
Anthracene	95	95	40-140	0	30
Pyrene	96	96	26-127	0	30
P-Chloro-M-Cresol	89	87	23-97	2	30
2-Chlorophenol	66	69	27-123	4	30
2-Nitrophenol	80	84	30-130	5	30
4-Nitrophenol	52	53	10-80	2	30
2,4-Dinitrophenol	96	93	20-130	3	30
Pentachlorophenol	93	92	9-103	1	30
Phenol	33	34	12-110	3	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913225

Report Date: 09/24/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08 Batch: WG380864-2 WG380864-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		45		21-120
Phenol-d6	28		29		10-120
Nitrobenzene-d5	67		70		23-120
2-Fluorobiphenyl	77		79		15-120
2,4,6-Tribromophenol	107		108		10-120
4-Terphenyl-d14	95		94		33-120

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913225
Report Date: 09/24/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Present/Intact
C	Present/Intact
A	Present/Intact
D	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0913225-01A	Vial HCl preserved	A	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-01B	Vial HCl preserved	A	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-01C	Vial HCl preserved	A	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-01D	Amber 1000ml unpreserved	A	7	3	Y	Present/Intact	NYTCL-8270(7)
L0913225-01E	Amber 1000ml unpreserved	A	7	3	Y	Present/Intact	NYTCL-8270(7)
L0913225-02A	Vial HCl preserved	A	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-02B	Vial HCl preserved	C	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-02C	Amber 1000ml unpreserved	C	7	3	Y	Present/Intact	NYTCL-8270(7)
L0913225-02D	Amber 1000ml unpreserved	C	7	3	Y	Present/Intact	NYTCL-8270(7)
L0913225-03A	Vial HCl preserved	D	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-03B	Vial HCl preserved	D	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-03C	Vial HCl preserved	D	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-03D	Amber 1000ml unpreserved	D	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-03E	Amber 1000ml unpreserved	D	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-04A	Vial HCl preserved	D	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-04B	Vial HCl preserved	D	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-04C	Vial HCl preserved	D	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-04D	Amber 1000ml unpreserved	D	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-04E	Amber 1000ml unpreserved	D	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-05A	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-05B	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-05C	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-05D	Amber 1000ml unpreserved	B	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-05E	Amber 1000ml unpreserved	B	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-06A	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-06B	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-06C	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)

*Hold days indicated by values in parentheses

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913225
Report Date: 09/24/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0913225-06D	Amber 1000ml unpreserved	B	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-06E	Amber 1000ml unpreserved	B	7	4	Y	Present/Intact	NYTCL-8270(7)
L0913225-07A	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-07B	Vial HCl preserved	B	N/A	4	Y	Present/Intact	NYTCL-8260(14)
L0913225-08A	Vial HCl preserved	C	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-08B	Vial HCl preserved	C	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-08C	Vial HCl preserved	C	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-08D	Amber 1000ml unpreserved	C	7	3	Y	Present/Intact	NYTCL-8270(7)
L0913225-08E	Amber 1000ml unpreserved	C	7	3	Y	Present/Intact	NYTCL-8270(7)
L0913225-09A	Vial HCl preserved	C	N/A	3	Y	Present/Intact	NYTCL-8260(14)
L0913225-09B	Vial HCl preserved	C	N/A	3	Y	Present/Intact	NYTCL-8260(14)

*Hold days indicated by values in parentheses

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913225
Project Number:	091220	**Report Date:**	09/24/09

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913225
Project Number:	091220	**Report Date:**	09/24/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 22, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.
Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D
Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Non-NELAC Approved Analytes
The following analytes are considered non-NELAC certifiable parameters for the listed method: **EPA 8260B:** Freon-113. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

09240914:44

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/21/09

ALPHA Job #: L0913225

Client Information

Client: GEI Consultants, Inc.
Address: 400 Unicorn Park Dr.
Woburn, MA 01801
Phone: (781) 721-4000
Fax:
Email: dotogroup@geiconsultants.com
labdata@geiconsultants.com

These samples have been previously analyzed by Alpha

Project Information

Project Name: Gastown Former MGP
Project Location: Tonawanda, NY
Project #: 09122-0
Project Manager: Bill Simmens
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

FAX EMAIL
ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria
Use NY Stak TCL/TAL - ASP CAT B Deliverable.

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
*HOLD PIANO
*EXTRACT & HOLD PAH-SIM
*please send copy of signed chain to Ray Siegner

ANALYSIS: VOC 8260 | SVOC 8270C PIANO* | SVOC 8270-SIM #*

SAMPLE HANDLING
Filtration
Done
Not needed
Lab to do
Preservation
Lab to do
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	SVOC 8270C PIANO*	SVOC 8270-SIM #*	Sample Specific Comments
13225-1	DPW-207	9/17/09	0930	GW	SSH	X	X	X	
2	DPW-203		1010		SMC	X	X	X	
3	GT-MW-74		1235		SMC	X	X	X	
4	DPW-210		1138		SSH	X	X	X	
5	DPW-204		1545		SMC	X	X	X	
6	DPW-202		1551		SSH	X	X	X	
7	GT-TB-091709		NA	Water	SMC	X	~~X~~	~~X~~ SSH	
8	DPW-208	9/18/09	0850	GW	SMC	X	X	X	
9	GT-TB-091809	9/18/09	NA	Water	GVM	X			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	9/18/09 1400	ALPHA	9/19/09 1151

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30 JUL-07)

ANALYTICAL REPORT

Lab Number:	L0913350
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Raymond Siegener
Project Name:	GASTOWN FORMER MGP
Project Number:	091220
Report Date:	09/29/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913350
Report Date: 09/29/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0913350-01	DPW-201	TONAWANDA, NY	09/18/09 12:50
L0913350-02	GT-TB-092209	TONAWANDA, NY	09/18/09 00:00

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913350
Project Number:	091220	**Report Date:**	09/29/09

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

All samples were received via express courier (Fed Ex) in a cooler with ice; however, the temperature of the cooler upon receipt at the laboratory was 8 degrees Celsius. The client was notified of the exceedance, and all requested analyses were performed.

Semivolatile Organics

The WG381359-2/-3 LCS/LCSD recoveries associated with L0913350-01 were above the acceptance criteria for 2,4-Dinitrotoluene (101%/102%), P-Chloro-M-Cresol (103%/103%) and Pentachlorophenol (110%/111%); however, the associated sample was non-detect for these target compounds. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/29/09

ORGANICS

VOLATILES

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID:	L0913350-01	Date Collected:	09/18/09 12:50
Client ID:	DPW-201	Date Received:	09/23/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/28/09 12:16		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID: L0913350-01 Date Collected: 09/18/09 12:50

Client ID: DPW-201 Date Received: 09/23/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID: L0913350-01 Date Collected: 09/18/09 12:50

Client ID: DPW-201 Date Received: 09/23/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	94		70-130

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID:	L0913350-02	Date Collected:	09/18/09 00:00
Client ID:	GT-TB-092209	Date Received:	09/23/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	09/28/09 12:51		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID: L0913350-02 Date Collected: 09/18/09 00:00

Client ID: GT-TB-092209 Date Received: 09/23/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Acrylonitrile	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
Vinyl acetate	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID: L0913350-02 Date Collected: 09/18/09 00:00

Client ID: GT-TB-092209 Date Received: 09/23/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	2.0	1
4-Ethyltoluene	ND		ug/l	2.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	1
Ethyl ether	ND		ug/l	2.5	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913350
Report Date: 09/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/28/09 09:23
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG381759-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913350
Report Date: 09/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/28/09 09:23
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG381759-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Acrylonitrile	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
Vinyl acetate	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913350
Report Date: 09/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 09/28/09 09:23
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG381759-3				
n-Propylbenzene	ND		ug/l	0.50
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
1,4-Diethylbenzene	ND		ug/l	2.0
4-Ethyltoluene	ND		ug/l	2.0
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0
Ethyl ether	ND		ug/l	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913350

Report Date: 09/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG381759-1 WG381759-2					
Chlorobenzene	106	97	75-130	9	20
Benzene	106	97	76-127	9	20
Toluene	108	98	76-125	10	20
1,1-Dichloroethene	104	95	61-145	9	20
Trichloroethene	102	93	71-120	9	20

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		85		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID:	L0913350-01	Date Collected:	09/18/09 12:50
Client ID:	DPW-201	Date Received:	09/23/09
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	09/25/09 03:15
Analytical Date:	09/26/09 21:25		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acenaphthene	ND		ug/l	4.8	1
1,2,4-Trichlorobenzene	ND		ug/l	4.8	1
Hexachlorobenzene	ND		ug/l	4.8	1
Bis(2-chloroethyl)ether	ND		ug/l	4.8	1
2-Chloronaphthalene	ND		ug/l	5.8	1
1,2-Dichlorobenzene	ND		ug/l	4.8	1
1,3-Dichlorobenzene	ND		ug/l	4.8	1
1,4-Dichlorobenzene	ND		ug/l	4.8	1
3,3'-Dichlorobenzidine	ND		ug/l	48	1
2,4-Dinitrotoluene	ND		ug/l	5.8	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1
Fluoranthene	ND		ug/l	4.8	1
4-Chlorophenyl phenyl ether	ND		ug/l	4.8	1
4-Bromophenyl phenyl ether	ND		ug/l	4.8	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	1
Hexachlorobutadiene	ND		ug/l	9.7	1
Hexachlorocyclopentadiene	ND		ug/l	29	1
Hexachloroethane	ND		ug/l	4.8	1
Isophorone	ND		ug/l	4.8	1
Naphthalene	ND		ug/l	4.8	1
Nitrobenzene	ND		ug/l	4.8	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	14	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.8	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.8	1
Butyl benzyl phthalate	ND		ug/l	4.8	1
Di-n-butylphthalate	ND		ug/l	4.8	1
Di-n-octylphthalate	ND		ug/l	4.8	1
Diethyl phthalate	ND		ug/l	4.8	1
Dimethyl phthalate	ND		ug/l	4.8	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID: L0913350-01 Date Collected: 09/18/09 12:50

Client ID: DPW-201 Date Received: 09/23/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzo(a)anthracene	ND		ug/l	4.8	1
Benzo(a)pyrene	ND		ug/l	4.8	1
Benzo(b)fluoranthene	ND		ug/l	4.8	1
Benzo(k)fluoranthene	ND		ug/l	4.8	1
Chrysene	ND		ug/l	4.8	1
Acenaphthylene	ND		ug/l	4.8	1
Anthracene	ND		ug/l	4.8	1
Benzo(ghi)perylene	ND		ug/l	4.8	1
Fluorene	ND		ug/l	4.8	1
Phenanthrene	ND		ug/l	4.8	1
Dibenzo(a,h)anthracene	ND		ug/l	4.8	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	6.8	1
Pyrene	ND		ug/l	4.8	1
Biphenyl	ND		ug/l	4.8	1
4-Chloroaniline	ND		ug/l	4.8	1
2-Nitroaniline	ND		ug/l	4.8	1
3-Nitroaniline	ND		ug/l	4.8	1
4-Nitroaniline	ND		ug/l	6.8	1
Dibenzofuran	ND		ug/l	4.8	1
2-Methylnaphthalene	ND		ug/l	4.8	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	19	1
Acetophenone	ND		ug/l	19	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	1
P-Chloro-M-Cresol	ND		ug/l	4.8	1
2-Chlorophenol	ND		ug/l	5.8	1
2,4-Dichlorophenol	ND		ug/l	9.7	1
2,4-Dimethylphenol	ND		ug/l	9.7	1
2-Nitrophenol	ND		ug/l	19	1
4-Nitrophenol	ND		ug/l	9.7	1
2,4-Dinitrophenol	ND		ug/l	29	1
4,6-Dinitro-o-cresol	ND		ug/l	19	1
Pentachlorophenol	ND		ug/l	9.7	1
Phenol	ND		ug/l	6.8	1
2-Methylphenol	ND		ug/l	5.8	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.8	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	1
Benzoic Acid	ND		ug/l	48	1

Project Name: GASTOWN FORMER MGP **Lab Number:** L0913350

Project Number: 091220 **Report Date:** 09/29/09

SAMPLE RESULTS

Lab ID: L0913350-01 Date Collected: 09/18/09 12:50

Client ID: DPW-201 Date Received: 09/23/09

Sample Location: TONAWANDA, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Benzyl Alcohol	ND		ug/l	9.7	1
Carbazole	ND		ug/l	4.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	90		33-120

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913350
Report Date: 09/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/26/09 19:47
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/25/09 03:15

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG381359-1				
Acenaphthene	ND		ug/l	5.0
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Hexachlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
2-Chloronaphthalene	ND		ug/l	6.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Fluoranthene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorobutadiene	ND		ug/l	10
Hexachlorocyclopentadiene	ND		ug/l	30
Hexachloroethane	ND		ug/l	5.0
Isophorone	ND		ug/l	5.0
Naphthalene	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
n-Nitrosodi-n-propylamine	ND		ug/l	5.0
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Benzo(a)anthracene	ND		ug/l	5.0

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913350
Report Date: 09/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/26/09 19:47
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/25/09 03:15

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG381359-1				
Benzo(a)pyrene	ND		ug/l	5.0
Benzo(b)fluoranthene	ND		ug/l	5.0
Benzo(k)fluoranthene	ND		ug/l	5.0
Chrysene	ND		ug/l	5.0
Acenaphthylene	ND		ug/l	5.0
Anthracene	ND		ug/l	5.0
Benzo(ghi)perylene	ND		ug/l	5.0
Fluorene	ND		ug/l	5.0
Phenanthrene	ND		ug/l	5.0
Dibenzo(a,h)anthracene	ND		ug/l	5.0
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0
Pyrene	ND		ug/l	5.0
Biphenyl	ND		ug/l	5.0
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	ND		ug/l	5.0
2-Methylnaphthalene	ND		ug/l	5.0
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20
Acetophenone	ND		ug/l	20
2,4,6-Trichlorophenol	ND		ug/l	5.0
P-Chloro-M-Cresol	ND		ug/l	5.0
2-Chlorophenol	ND		ug/l	6.0
2,4-Dichlorophenol	ND		ug/l	10
2,4-Dimethylphenol	ND		ug/l	10
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
4,6-Dinitro-o-cresol	ND		ug/l	20
Pentachlorophenol	ND		ug/l	10

Project Name: GASTOWN FORMER MGP
Project Number: 091220
Lab Number: L0913350
Report Date: 09/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/26/09 19:47
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/25/09 03:15

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG381359-1				
Phenol	ND		ug/l	7.0
2-Methylphenol	ND		ug/l	6.0
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0
2,4,5-Trichlorophenol	ND		ug/l	5.0
Benzoic Acid	ND		ug/l	50
Benzyl Alcohol	ND		ug/l	10
Carbazole	ND		ug/l	5.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	91		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913350

Report Date: 09/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG381359-2 WG381359-3					
Acenaphthene	90	92	46-118	2	30
1,2,4-Trichlorobenzene	62	63	39-98	2	30
2-Chloronaphthalene	96	99	40-140	3	30
1,2-Dichlorobenzene	62	64	40-140	3	30
1,4-Dichlorobenzene	60	59	36-97	2	30
2,4-Dinitrotoluene	**101**	**102**	24-96	1	30
2,6-Dinitrotoluene	96	95	40-140	1	30
Fluoranthene	118	117	40-140	1	30
4-Chlorophenyl phenyl ether	91	95	40-140	4	30
n-Nitrosodi-n-propylamine	73	89	41-116	20	30
Butyl benzyl phthalate	123	121	40-140	2	30
Anthracene	113	115	40-140	2	30
Pyrene	112	114	26-127	2	30
P-Chloro-M-Cresol	**103**	**103**	23-97	0	30
2-Chlorophenol	68	79	27-123	15	30
2-Nitrophenol	72	86	30-130	18	30
4-Nitrophenol	73	67	10-80	9	30
2,4-Dinitrophenol	46	50	20-130	8	30
Pentachlorophenol	**110**	**111**	9-103	1	30
Phenol	31	32	12-110	3	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 091220

Lab Number: L0913350

Report Date: 09/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG381359-2 WG381359-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		49		21-120
Phenol-d6	33		34		10-120
Nitrobenzene-d5	77		86		23-120
2-Fluorobiphenyl	81		87		15-120
2,4,6-Tribromophenol	103		104		10-120
4-Terphenyl-d14	114		110		33-120

Project Name: GASTOWN FORMER MGP
Project Number: 091220

Lab Number: L0913350
Report Date: 09/29/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0913350-01A	Vial HCl preserved	A	N/A	8	Y	Absent	NYTCL-8260(14)
L0913350-01B	Vial HCl preserved	A	N/A	8	Y	Absent	NYTCL-8260(14)
L0913350-01C	Vial HCl preserved	A	N/A	8	Y	Absent	NYTCL-8260(14)
L0913350-01D	Amber 1000ml unpreserved	A	6	8	Y	Absent	NYTCL-8270(7)
L0913350-01E	Amber 1000ml unpreserved	A	6	8	Y	Absent	NYTCL-8270(7)
L0913350-02A	Vial HCl preserved	A	N/A	8	Y	Absent	NYTCL-8260(14)
L0913350-02B	Vial HCl preserved	A	N/A	8	Y	Absent	NYTCL-8260(14)

*Hold days indicated by values in parentheses

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913350
Project Number:	091220	**Report Date:**	09/29/09

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

NI - Not Ignitable.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L0913350
Project Number:	091220	**Report Date:**	09/29/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 22, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.
Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D
Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Non-NELAC Approved Analytes
The following analytes are considered non-NELAC certifiable parameters for the listed method: **EPA 8260B:** Freon-113. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

09290917:22

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 9/23/09

ALPHA Job #: L0913350

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: GEI Consultants, Inc.

Address: 400 Unicorn Park Dr.
Woburn, MA 01801

Phone: (781) 721-4000

Fax:

Email: labdata@geiconsultants.com
datagroup@geiconsultants.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gasoline Former MGP

Project Location: Tonawanda, NY

Project #: 091220

Project Manager: Bill Simmons

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 9/30/09 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: Use NYState TCL list - ASP CAT B Deliverable

Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☑ No Are MCP Analytical Methods Required?

☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

*HOLD PIANO
**HOLD & EXTRACT PAH-SIM

*please send copy of signed chain to Ray Siegener

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	SVOC 8270	PIANO *	SVOC 8270-SIM**	TOTAL # BOTTLES	Sample Specific Comments
33520 1	DPW-201	9/18/09	1250	GW	SMC	X	X	X	X		
2	GT-TB-092209	9/22/09	NA		SSH	X					

SAMPLE HANDLING

Filtration
☐ Done
☑ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type																	
Preservative																	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	9/22/09 1600		9/23/09 1000

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L1001103
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Bill Simons
Project Name:	GASTOWN FORMER MGP
Project Number:	093380
Report Date:	02/05/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1001103-01	GT-SS-01	TONAWANDA, NY	01/21/10 11:09
L1001103-02	GT-SS-02	TONAWANDA, NY	01/21/10 11:21
L1001103-03	GT-SS-03	TONAWANDA, NY	01/21/10 11:41
L1001103-04	GT-SS-XX	TONAWANDA, NY	01/21/10 13:30
L1001103-05	GT-DPV-01	TONAWANDA, NY	01/21/10 12:49
L1001103-06	GT-DPV-02	TONAWANDA, NY	01/21/10 13:01
L1001103-07	GT-DPV-03	TONAWANDA, NY	01/21/10 13:46
L1001103-08	GT-DPV-05	TONAWANDA, NY	01/21/10 14:10
L1001103-09	GT-DPV-06	TONAWANDA, NY	01/21/10 13:57
L1001103-10	GT-DPV-XX	TONAWANDA, NY	01/21/10 13:30
L1001103-11	GT-IA-GYM	TONAWANDA, NY	01/21/10 07:42
L1001103-12	GT-IA-CLS	TONAWANDA, NY	01/21/10 07:44
L1001103-13	GT-IA-CAF	TONAWANDA, NY	01/21/10 07:45
L1001103-14	GT-IA-XX	TONAWANDA, NY	01/21/10 13:30
L1001103-15	GT-OA-SE	TONAWANDA, NY	01/21/10 07:26
L1001103-16	GT-OA-NW	TONAWANDA, NY	01/21/10 07:27
L1001103-17	UNUSED CAN 983	TONAWANDA, NY	
L1001103-18	UNUSED CAN 612	TONAWANDA, NY	
L1001103-19	UNUSED CAN 110	TONAWANDA, NY	
L1001103-20	UNUSED CAN 214	TONAWANDA, NY	
L1001103-21	UNUSED CAN 414	TONAWANDA, NY	
L1001103-22	UNUSED CAN 339	TONAWANDA, NY	

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L1001103
Project Number:	093380	**Report Date:**	02/05/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

The sample canisters identified as "GT-DPV-03 and GT-DPV-05" were received empty and therefore, the analysis was cancelled.

Volatile Organics in Air (Low Level)

L1001103-05, -06, and -09 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L1001103
Project Number:	093380	**Report Date:**	02/05/10

Case Narrative (continued)

L1001103-11, -12, -14, -15, and -16: results for Acetone should be considered estimated due to co-elution with a non-target peak.

The WG399344-3 LCS recovery for 4-Methyl-2-pentanone (142%) is outside the 70%-130% acceptance limit. The LCS was within overall method allowances, therefore the analysis proceeded. Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, and 1-Methylnaphthalene were not included in the spike solution for the LCS/ICV standard, therefore a percent recovery is not reported in the LCS for these compounds. There is not a second source from the initial calibration available for these compounds; however they were included in the daily continuing calibration standard.

Fixed Gas

L1001103-01 through -06, -09 and -10: Prior to sample analysis, the canisters were pressurized with UHP Hydrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Hydrogen resulted in a dilution of the sample. The reporting limits have been elevated accordingly.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 02/05/10

AIR

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-01
Client ID: GT-SS-01
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 22:23
Analyst: RY

Date Collected: 01/21/10 11:09
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	1.64	0.200	8.92	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-01
Client ID: GT-SS-01
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 11:09
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	1.02	1.00	2.42	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.491	0.200	2.43	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	1.29	0.500	3.17	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-01
Client ID: GT-SS-01
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 11:09
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.459	0.200	2.58	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-02
Client ID: GT-SS-02
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 23:40
Analyst: RY

Date Collected: 01/21/10 11:21
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.424	0.200	1.25	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-02
Client ID: GT-SS-02
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 11:21
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.473	0.200	2.34	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-02
Client ID: GT-SS-02
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 11:21
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.431	0.200	2.42	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-03
Client ID: GT-SS-03
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/04/10 00:19
Analyst: RY

Date Collected: 01/21/10 11:41
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-03
Client ID: GT-SS-03
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 11:41
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	1.19	1.00	2.83	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.457	0.200	2.26	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-03
Client ID: GT-SS-03
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 11:41
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.494	0.200	2.77	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-04
Client ID: GT-SS-XX
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/04/10 00:57
Analyst: RY

Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-04
Client ID: GT-SS-XX
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.470	0.200	2.32	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-04
Client ID: GT-SS-XX
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.515	0.200	2.89	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	0.462	0.200	1.10	0.475		1
Pentane	0.286	0.200	0.843	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-05 D
Client ID: GT-DPV-01
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/04/10 01:35
Analyst: RY

Date Collected: 01/21/10 12:49
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		2.5
1,1,2-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1-Dichloroethane	ND	0.500	ND	2.02		2.5
1,1-Dichloroethene	ND	0.500	ND	1.98		2.5
1,2,3-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4-Trichlorobenzene	ND	0.500	ND	3.71		2.5
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4,5-Tetramethylbenzene	ND	6.25	ND	34.3		2.5
1,2-Dibromoethane	ND	0.500	ND	3.84		2.5
1,2-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,2-Dichloroethane	ND	0.500	ND	2.02		2.5
1,2-Dichloropropane	ND	0.500	ND	2.31		2.5
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,3-Butadiene	ND	0.500	ND	1.10		2.5
1,3-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dioxane	ND	0.500	ND	1.80		2.5
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		2.5
2-Butanone	ND	0.500	ND	1.47		2.5
o-Chlorotoluene	ND	0.500	ND	2.59		2.5
2-Ethylthiophene	ND	0.500	ND	2.29		2.5
2-Hexanone	ND	0.500	ND	2.05		2.5
2-Methylthiophene	ND	0.500	ND	2.01		2.5
3-Chloropropene	ND	0.500	ND	1.56		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-05 D
Client ID: GT-DPV-01
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 12:49
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.500	ND	2.01		2.5
4-Ethyltoluene	ND	0.500	ND	2.46		2.5
Acetone	ND	2.50	ND	5.93		2.5
Benzene	ND	0.500	ND	1.60		2.5
Benzothiophene	ND	6.25	ND	34.3		2.5
Bromodichloromethane	ND	0.500	ND	3.35		2.5
Bromoform	ND	0.500	ND	5.16		2.5
Bromomethane	ND	0.500	ND	1.94		2.5
Carbon disulfide	ND	0.500	ND	1.56		2.5
Carbon tetrachloride	ND	0.500	ND	3.14		2.5
Chlorobenzene	ND	0.500	ND	2.30		2.5
Chloroethane	ND	0.500	ND	1.32		2.5
Chloroform	ND	0.500	ND	2.44		2.5
Chloromethane	ND	0.500	ND	1.03		2.5
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Cyclohexane	ND	0.500	ND	1.72		2.5
Dibromochloromethane	ND	0.500	ND	4.26		2.5
Dichlorodifluoromethane	ND	0.500	ND	2.47		2.5
Ethylbenzene	ND	0.500	ND	2.17		2.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.500	ND	3.83		2.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.500	ND	3.49		2.5
Heptane	ND	0.500	ND	2.05		2.5
Hexachlorobutadiene	ND	0.500	ND	5.33		2.5
n-Hexane	ND	1.25	ND	4.40		2.5
iso-Propyl Alcohol	ND	1.25	ND	3.07		2.5
Methylene chloride	ND	1.25	ND	4.34		2.5
4-Methyl-2-pentanone	ND	0.500	ND	2.05		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-05 D
Client ID: GT-DPV-01
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 12:49
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.500	ND	1.80		2.5
p/m-Xylene	ND	0.500	ND	2.17		2.5
o-Xylene	ND	0.500	ND	2.17		2.5
Naphthalene	ND	0.500	ND	2.62		2.5
Styrene	ND	0.500	ND	2.13		2.5
tert-Butyl Alcohol	ND	0.500	ND	1.52		2.5
Tetrachloroethene	ND	0.500	ND	3.39		2.5
Thiophene	ND	0.500	ND	1.72		2.5
Toluene	ND	0.500	ND	1.88		2.5
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Trichloroethene	ND	0.500	ND	2.68		2.5
Trichlorofluoromethane	ND	0.500	ND	2.81		2.5
Vinyl bromide	ND	0.500	ND	2.18		2.5
Vinyl chloride	ND	0.500	ND	1.28		2.5
Butane	ND	0.500	ND	1.19		2.5
Pentane	ND	0.500	ND	1.47		2.5
Octane	ND	0.500	ND	2.33		2.5
Nonane (C9)	ND	0.500	ND	2.62		2.5
Decane (C10)	ND	0.500	ND	2.91		2.5
Dodecane (C12)	ND	1.25	ND	8.71		2.5
Undecane	ND	0.500	ND	3.20		2.5
Indane	ND	0.500	ND	2.42		2.5
Indene	ND	0.500	ND	2.38		2.5
1-Methylnaphthalene	ND	6.25	ND	36.3		2.5
2-Methylnaphthalene	ND	6.25	ND	36.3		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-06 D
Client ID: GT-DPV-02
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/04/10 02:13
Analyst: RY

Date Collected: 01/21/10 13:01
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		2.5
1,1,2-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1-Dichloroethane	ND	0.500	ND	2.02		2.5
1,1-Dichloroethene	ND	0.500	ND	1.98		2.5
1,2,3-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4-Trichlorobenzene	ND	0.500	ND	3.71		2.5
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4,5-Tetramethylbenzene	ND	6.25	ND	34.3		2.5
1,2-Dibromoethane	ND	0.500	ND	3.84		2.5
1,2-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,2-Dichloroethane	ND	0.500	ND	2.02		2.5
1,2-Dichloropropane	ND	0.500	ND	2.31		2.5
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,3-Butadiene	ND	0.500	ND	1.10		2.5
1,3-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dioxane	ND	0.500	ND	1.80		2.5
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		2.5
2-Butanone	ND	0.500	ND	1.47		2.5
o-Chlorotoluene	ND	0.500	ND	2.59		2.5
2-Ethylthiophene	ND	0.500	ND	2.29		2.5
2-Hexanone	ND	0.500	ND	2.05		2.5
2-Methylthiophene	ND	0.500	ND	2.01		2.5
3-Chloropropene	ND	0.500	ND	1.56		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-06 D
Client ID: GT-DPV-02
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:01
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.500	ND	2.01		2.5
4-Ethyltoluene	ND	0.500	ND	2.46		2.5
Acetone	2.90	2.50	6.88	5.93		2.5
Benzene	ND	0.500	ND	1.60		2.5
Benzothiophene	ND	6.25	ND	34.3		2.5
Bromodichloromethane	ND	0.500	ND	3.35		2.5
Bromoform	ND	0.500	ND	5.16		2.5
Bromomethane	ND	0.500	ND	1.94		2.5
Carbon disulfide	ND	0.500	ND	1.56		2.5
Carbon tetrachloride	ND	0.500	ND	3.14		2.5
Chlorobenzene	ND	0.500	ND	2.30		2.5
Chloroethane	ND	0.500	ND	1.32		2.5
Chloroform	ND	0.500	ND	2.44		2.5
Chloromethane	ND	0.500	ND	1.03		2.5
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Cyclohexane	ND	0.500	ND	1.72		2.5
Dibromochloromethane	ND	0.500	ND	4.26		2.5
Dichlorodifluoromethane	ND	0.500	ND	2.47		2.5
Ethylbenzene	ND	0.500	ND	2.17		2.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.500	ND	3.83		2.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.500	ND	3.49		2.5
Heptane	ND	0.500	ND	2.05		2.5
Hexachlorobutadiene	ND	0.500	ND	5.33		2.5
n-Hexane	ND	1.25	ND	4.40		2.5
iso-Propyl Alcohol	66.4	1.25	163	3.07		2.5
Methylene chloride	ND	1.25	ND	4.34		2.5
4-Methyl-2-pentanone	ND	0.500	ND	2.05		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-06 D
Client ID: GT-DPV-02
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:01
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.500	ND	1.80		2.5
p/m-Xylene	ND	0.500	ND	2.17		2.5
o-Xylene	ND	0.500	ND	2.17		2.5
Naphthalene	ND	0.500	ND	2.62		2.5
Styrene	ND	0.500	ND	2.13		2.5
tert-Butyl Alcohol	ND	0.500	ND	1.52		2.5
Tetrachloroethene	ND	0.500	ND	3.39		2.5
Thiophene	ND	0.500	ND	1.72		2.5
Toluene	ND	0.500	ND	1.88		2.5
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Trichloroethene	ND	0.500	ND	2.68		2.5
Trichlorofluoromethane	ND	0.500	ND	2.81		2.5
Vinyl bromide	ND	0.500	ND	2.18		2.5
Vinyl chloride	ND	0.500	ND	1.28		2.5
Butane	ND	0.500	ND	1.19		2.5
Pentane	ND	0.500	ND	1.47		2.5
Octane	ND	0.500	ND	2.33		2.5
Nonane (C9)	ND	0.500	ND	2.62		2.5
Decane (C10)	ND	0.500	ND	2.91		2.5
Dodecane (C12)	ND	1.25	ND	8.71		2.5
Undecane	ND	0.500	ND	3.20		2.5
Indane	ND	0.500	ND	2.42		2.5
Indene	ND	0.500	ND	2.38		2.5
1-Methylnaphthalene	ND	6.25	ND	36.3		2.5
2-Methylnaphthalene	ND	6.25	ND	36.3		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-09 D
Client ID: GT-DPV-06
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/04/10 02:51
Analyst: RY

Date Collected: 01/21/10 13:57
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		2.5
1,1,2-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1-Dichloroethane	ND	0.500	ND	2.02		2.5
1,1-Dichloroethene	ND	0.500	ND	1.98		2.5
1,2,3-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4-Trichlorobenzene	ND	0.500	ND	3.71		2.5
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,2,4,5-Tetramethylbenzene	ND	6.25	ND	34.3		2.5
1,2-Dibromoethane	ND	0.500	ND	3.84		2.5
1,2-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,2-Dichloroethane	ND	0.500	ND	2.02		2.5
1,2-Dichloropropane	ND	0.500	ND	2.31		2.5
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		2.5
1,3-Butadiene	ND	0.500	ND	1.10		2.5
1,3-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dioxane	ND	0.500	ND	1.80		2.5
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		2.5
2-Butanone	ND	0.500	ND	1.47		2.5
o-Chlorotoluene	ND	0.500	ND	2.59		2.5
2-Ethylthiophene	ND	0.500	ND	2.29		2.5
2-Hexanone	ND	0.500	ND	2.05		2.5
2-Methylthiophene	ND	0.500	ND	2.01		2.5
3-Chloropropene	ND	0.500	ND	1.56		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-09 D
Client ID: GT-DPV-06
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:57
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.500	ND	2.01		2.5
4-Ethyltoluene	ND	0.500	ND	2.46		2.5
Acetone	ND	2.50	ND	5.93		2.5
Benzene	ND	0.500	ND	1.60		2.5
Benzothiophene	ND	6.25	ND	34.3		2.5
Bromodichloromethane	ND	0.500	ND	3.35		2.5
Bromoform	ND	0.500	ND	5.16		2.5
Bromomethane	ND	0.500	ND	1.94		2.5
Carbon disulfide	ND	0.500	ND	1.56		2.5
Carbon tetrachloride	ND	0.500	ND	3.14		2.5
Chlorobenzene	ND	0.500	ND	2.30		2.5
Chloroethane	ND	0.500	ND	1.32		2.5
Chloroform	0.575	0.500	2.80	2.44		2.5
Chloromethane	ND	0.500	ND	1.03		2.5
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Cyclohexane	ND	0.500	ND	1.72		2.5
Dibromochloromethane	ND	0.500	ND	4.26		2.5
Dichlorodifluoromethane	0.525	0.500	2.59	2.47		2.5
Ethylbenzene	ND	0.500	ND	2.17		2.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.500	ND	3.83		2.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.500	ND	3.49		2.5
Heptane	ND	0.500	ND	2.05		2.5
Hexachlorobutadiene	ND	0.500	ND	5.33		2.5
n-Hexane	ND	1.25	ND	4.40		2.5
iso-Propyl Alcohol	ND	1.25	ND	3.07		2.5
Methylene chloride	ND	1.25	ND	4.34		2.5
4-Methyl-2-pentanone	ND	0.500	ND	2.05		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-09 D
Client ID: GT-DPV-06
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:57
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.500	ND	1.80		2.5
p/m-Xylene	ND	0.500	ND	2.17		2.5
o-Xylene	ND	0.500	ND	2.17		2.5
Naphthalene	ND	0.500	ND	2.62		2.5
Styrene	ND	0.500	ND	2.13		2.5
tert-Butyl Alcohol	ND	0.500	ND	1.52		2.5
Tetrachloroethene	ND	0.500	ND	3.39		2.5
Thiophene	ND	0.500	ND	1.72		2.5
Toluene	ND	0.500	ND	1.88		2.5
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		2.5
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		2.5
Trichloroethene	ND	0.500	ND	2.68		2.5
Trichlorofluoromethane	ND	0.500	ND	2.81		2.5
Vinyl bromide	ND	0.500	ND	2.18		2.5
Vinyl chloride	ND	0.500	ND	1.28		2.5
Butane	ND	0.500	ND	1.19		2.5
Pentane	ND	0.500	ND	1.47		2.5
Octane	ND	0.500	ND	2.33		2.5
Nonane (C9)	ND	0.500	ND	2.62		2.5
Decane (C10)	ND	0.500	ND	2.91		2.5
Dodecane (C12)	ND	1.25	ND	8.71		2.5
Undecane	ND	0.500	ND	3.20		2.5
Indane	ND	0.500	ND	2.42		2.5
Indene	ND	0.500	ND	2.38		2.5
1-Methylnaphthalene	ND	6.25	ND	36.3		2.5
2-Methylnaphthalene	ND	6.25	ND	36.3		2.5

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-10
Client ID: GT-DPV-XX
Sample Location: TONAWANDA, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/04/10 03:29
Analyst: RY

Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-10
Client ID: GT-DPV-XX
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	1.82	1.00	4.31	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	0.266	0.200	0.828	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	0.567	0.200	2.77	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.426	0.200	2.10	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-10
Client ID: GT-DPV-XX
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-11
Client ID: GT-IA-GYM
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 19:50
Analyst: RY

Date Collected: 01/21/10 07:42
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.347	0.200	1.02	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-11
Client ID: GT-IA-GYM
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:42
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	4.19	1.00	9.95	2.37		1
Benzene	0.225	0.200	0.718	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.525	0.200	1.08	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.483	0.200	2.39	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	4.13	0.500	10.1	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.388	0.200	1.59	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-11
Client ID: GT-IA-GYM
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:42
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.366	0.200	1.38	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.911	0.200	5.11	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	4.71	0.200	11.2	0.475		1
Pentane	0.587	0.200	1.73	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-12
Client ID: GT-IA-CLS
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 20:28
Analyst: RY

Date Collected: 01/21/10 07:44
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.481	0.200	1.42	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-12
Client ID: GT-IA-CLS
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:44
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	5.68	1.00	13.5	2.37		1
Benzene	0.228	0.200	0.728	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.549	0.200	1.13	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.487	0.200	2.41	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	5.08	0.500	12.5	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.898	0.200	3.68	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-12
Client ID: GT-IA-CLS
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:44
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.347	0.200	1.31	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	1.22	0.200	6.84	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	5.15	0.200	12.2	0.475		1
Pentane	0.742	0.200	2.19	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-13
Client ID: GT-IA-CAF
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 21:07
Analyst: RY

Date Collected: 01/21/10 07:45
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.487	0.200	1.44	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-13
Client ID: GT-IA-CAF
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:45
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	6.21	1.00	14.7	2.37		1
Benzene	0.250	0.200	0.798	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.537	0.200	1.11	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.478	0.200	2.36	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	9.91	0.500	24.3	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.626	0.200	2.56	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-13
Client ID: GT-IA-CAF
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:45
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.385	0.200	1.45	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	1.43	0.200	8.05	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	5.57	0.200	13.2	0.475		1
Pentane	0.843	0.200	2.48	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-14
Client ID: GT-IA-XX
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 21:45
Analyst: RY

Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.394	0.200	1.16	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-14
Client ID: GT-IA-XX
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	4.53	1.00	10.8	2.37		1
Benzene	0.241	0.200	0.769	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.537	0.200	1.11	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.475	0.200	2.35	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	3.88	0.500	9.52	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.357	0.200	1.46	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-14
Client ID: GT-IA-XX
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 13:30
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.367	0.200	1.38	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.936	0.200	5.25	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	4.61	0.200	10.9	0.475		1
Pentane	0.592	0.200	1.74	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-15
Client ID: GT-OA-SE
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 18:33
Analyst: RY

Date Collected: 01/21/10 07:26
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	0.259	0.200	0.763	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-15
Client ID: GT-OA-SE
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:26
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	2.03	1.00	4.83	2.37		1
Benzene	0.242	0.200	0.772	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.585	0.200	1.21	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.517	0.200	2.55	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-15
Client ID: GT-OA-SE
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:26
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.342	0.200	1.29	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.225	0.200	1.26	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.04	0.200	2.47	0.475		1
Pentane	0.422	0.200	1.24	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-16
Client ID: GT-OA-NW
Sample Location: TONAWANDA, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/10 19:12
Analyst: RY

Date Collected: 01/21/10 07:27
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-16
Client ID: GT-OA-NW
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:27
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	1.10	1.00	2.60	2.37		1
Benzene	0.246	0.200	0.785	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.548	0.200	1.13	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.487	0.200	2.41	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID: L1001103-16
Client ID: GT-OA-NW
Sample Location: TONAWANDA, NY
Date Collected: 01/21/10 07:27
Date Received: 01/22/10
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab						
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	0.344	0.200	1.30	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.206	0.200	1.16	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	1.05	0.200	2.49	0.475		1
Pentane	0.383	0.200	1.13	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/03/10 15:48

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06,09-16 Batch: WG399344-4						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,3-Trimethylbenzene	ND	0.200	ND	0.983		1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.48		1
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		1
1,2,4,5-Tetramethylbenzene	ND	2.50	ND	13.7		1
1,2-Dibromoethane	ND	0.200	ND	1.54		1
1,2-Dichlorobenzene	ND	0.200	ND	1.20		1
1,2-Dichloroethane	ND	0.200	ND	0.809		1
1,2-Dichloropropane	ND	0.200	ND	0.924		1
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		1
1,3-Butadiene	ND	0.200	ND	0.442		1
1,3-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dichlorobenzene	ND	0.200	ND	1.20		1
1,4-Dioxane	ND	0.200	ND	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	ND	0.200	ND	0.589		1
o-Chlorotoluene	ND	0.200	ND	1.03		1
2-Ethylthiophene	ND	0.200	ND	0.918		1
2-Hexanone	ND	0.200	ND	0.819		1
2-Methylthiophene	ND	0.200	ND	0.803		1
3-Chloropropene	ND	0.200	ND	0.626		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/03/10 15:48

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06,09-16 Batch: WG399344-4						
3-Methylthiophene	ND	0.200	ND	0.803		1
4-Ethyltoluene	ND	0.200	ND	0.982		1
Acetone	ND	1.00	ND	2.37		1
Benzene	ND	0.200	ND	0.638		1
Benzothiophene	ND	2.50	ND	13.7		1
Bromodichloromethane	ND	0.200	ND	1.34		1
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	ND	0.200	ND	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Ethylbenzene	ND	0.200	ND	0.868		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	ND	1.53		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	ND	1.40		1
Heptane	ND	0.200	ND	0.819		1
Hexachlorobutadiene	ND	0.200	ND	2.13		1
n-Hexane	ND	0.500	ND	1.76		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/03/10 15:48

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06,09-16 Batch: WG399344-4						
iso-Propyl Alcohol	ND	0.500	ND	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	ND	0.200	ND	0.819		1
Methyl tert butyl ether	ND	0.200	ND	0.720		1
p/m-Xylene	ND	0.200	ND	0.868		1
o-Xylene	ND	0.200	ND	0.868		1
Naphthalene	ND	0.200	ND	1.05		1
Styrene	ND	0.200	ND	0.851		1
tert-Butyl Alcohol	ND	0.200	ND	0.606		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Thiophene	ND	0.200	ND	0.688		1
Toluene	ND	0.200	ND	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	ND	0.200	ND	1.12		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	ND	0.200	ND	0.511		1
Butane	ND	0.200	ND	0.475		1
Pentane	ND	0.200	ND	0.590		1
Octane	ND	0.200	ND	0.934		1
Nonane (C9)	ND	0.200	ND	1.05		1
Decane (C10)	ND	0.200	ND	1.16		1
Dodecane (C12)	ND	0.500	ND	3.48		1
Undecane	ND	0.200	ND	1.28		1

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/03/10 15:48

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06,09-16 Batch: WG399344-4						
Indane	ND	0.200	ND	0.967		1
Indene	ND	0.200	ND	0.950		1
1-Methylnaphthalene	ND	2.50	ND	14.5		1
2-Methylnaphthalene	ND	2.50	ND	14.5		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 093380

Lab Number: L1001103

Report Date: 02/05/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 Batch: WG399344-3								
1,1,1-Trichloroethane	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	92		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
1,1-Dichloroethene	95		-		70-130	-		
1,2,4-Trichlorobenzene	92		-		70-130	-		
1,2,4-Trimethylbenzene	90		-		70-130	-		
1,2-Dibromoethane	81		-		70-130	-		
1,2-Dichlorobenzene	85		-		70-130	-		
1,2-Dichloroethane	89		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
1,3,5-Trimethylbenzene	81		-		70-130	-		
1,3-Butadiene	100		-		70-130	-		
1,3-Dichlorobenzene	87		-		70-130	-		
1,4-Dichlorobenzene	86		-		70-130	-		
1,4-Dioxane	101		-		70-130	-		
2,2,4-Trimethylpentane	105		-		70-130	-		
2-Butanone	110		-		70-130	-		
o-Chlorotoluene	74		-		70-130	-		
2-Hexanone	121		-		70-130	-		
3-Chloropropene	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 093380

Lab Number: L1001103

Report Date: 02/05/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 Batch: WG399344-3								
4-Ethyltoluene	82		-		70-130	-		
Acetone	116		-		70-130	-		
Benzene	94		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
Bromoform	79		-		70-130	-		
Bromomethane	87		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Carbon tetrachloride	98		-		70-130	-		
Chlorobenzene	79		-		70-130	-		
Chloroethane	92		-		70-130	-		
Chloroform	84		-		70-130	-		
Chloromethane	105		-		70-130	-		
cis-1,2-Dichloroethene	83		-		70-130	-		
cis-1,3-Dichloropropene	100		-		70-130	-		
Cyclohexane	92		-		70-130	-		
Dibromochloromethane	77		-		70-130	-		
Dichlorodifluoromethane	104		-		70-130	-		
Ethylbenzene	78		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	85		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	99		-		70-130	-		
Heptane	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 093380

Lab Number: L1001103

Report Date: 02/05/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 Batch: WG399344-3								
Hexachlorobutadiene	83		-		70-130	-		
n-Hexane	97		-		70-130	-		
iso-Propyl Alcohol	114		-		70-130	-		
Methylene chloride	95		-		70-130	-		
4-Methyl-2-pentanone	**142**	Q	-		70-130	-		
Methyl tert butyl ether	85		-		70-130	-		
p/m-Xylene	82		-		70-130	-		
o-Xylene	82		-		70-130	-		
Naphthalene	93		-		70-130	-		
Styrene	77		-		70-130	-		
tert-Butyl Alcohol	103		-		70-130	-		
Tetrachloroethene	75		-		70-130	-		
Toluene	79		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
Trichloroethene	90		-		70-130	-		
Trichlorofluoromethane	93		-		70-130	-		
Vinyl bromide	82		-		70-130	-		
Vinyl chloride	103		-		70-130	-		
Butane	110		-		70-130	-		
Pentane	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 093380

Lab Number: L1001103

Report Date: 02/05/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 Batch: WG399344-3								
Octane	72		-		70-130	-		
Nonane (C9)	91		-		70-130	-		
Decane (C10)	92		-		70-130	-		
Dodecane (C12)	118		-		70-130	-		
Undecane	97		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 QC Batch ID: WG399344-5 QC Sample: L1001103-01 Client ID: GT-SS-01						
1,1,1-Trichloroethane	1.64	1.63	ppbV	1		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
1,2,3-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4,5-Tetramethylbenzene	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 QC Batch ID: WG399344-5 QC Sample: L1001103-01 Client ID: GT-SS-01					
2-Butanone	ND	ND	ppbV	NC	25
o-Chlorotoluene	ND	ND	ppbV	NC	25
2-Ethylthiophene	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
2-Methylthiophene	ND	ND	ppbV	NC	25
3-Chloropropene	ND	ND	ppbV	NC	25
3-Methylthiophene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	1.02	1.02	ppbV	0	25
Benzene	ND	ND	ppbV	NC	25
Benzothiophene	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Carbon disulfide	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 QC Batch ID: WG399344-5 QC Sample: L1001103-01 Client ID: GT-SS-01					
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.491	0.488	ppbV	1	25
Ethylbenzene	ND	ND	ppbV	NC	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
iso-Propyl Alcohol	1.29	1.25	ppbV	3	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
Naphthalene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 QC Batch ID: WG399344-5 QC Sample: L1001103-01 Client ID: GT-SS-01					
Styrene	ND	ND	ppbV	NC	25
tert-Butyl Alcohol	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Thiophene	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	0.459	0.441	ppbV	4	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25
Butane	ND	ND	ppbV	NC	25
Pentane	ND	ND	ppbV	NC	25
Octane	ND	ND	ppbV	NC	25
Nonane (C9)	ND	ND	ppbV	NC	25
Decane (C10)	ND	ND	ppbV	NC	25
Dodecane (C12)	ND	ND	ppbV	NC	25
Undecane	ND	ND	ppbV	NC	25
Indane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06,09-16 QC Batch ID: WG399344-5 QC Sample: L1001103-01 Client ID: GT-SS-01					
Indene	ND	ND	ppbV	NC	25
1-Methylnaphthalene	ND	ND	ppbV	NC	25
2-Methylnaphthalene	ND	ND	ppbV	NC	25

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-01	Date Collected:	01/21/10 11:09
Client ID:	GT-SS-01	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 18:07		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.020	1.985

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-02	Date Collected:	01/21/10 11:21
Client ID:	GT-SS-02	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 18:42		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	0.144		%	0.016	1.619

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-03	Date Collected:	01/21/10 11:41
Client ID:	GT-SS-03	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 19:17		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	1.74		%	0.016	1.646

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-04	Date Collected:	01/21/10 13:30
Client ID:	GT-SS-XX	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 19:53		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	1.96		%	0.017	1.673

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-05	Date Collected:	01/21/10 12:49
Client ID:	GT-DPV-01	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 20:28		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.016	1.594

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-06	Date Collected:	01/21/10 13:01
Client ID:	GT-DPV-02	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 21:03		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.015	1.545

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-09	Date Collected:	01/21/10 13:57
Client ID:	GT-DPV-06	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 21:39		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.017	1.687

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

SAMPLE RESULTS

Lab ID:	L1001103-10	Date Collected:	01/21/10 13:30
Client ID:	GT-DPV-XX	Date Received:	01/22/10
Sample Location:	TONAWANDA, NY	Field Prep:	Not Specified
Matrix:	Soil_Vapor	Extraction Method:	
Analytical Method:	51,3C(M)		
Analytical Date:	02/04/10 22:14		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab					
Helium	ND		%	0.016	1.569

Project Name: GASTOWN FORMER MGP
Project Number: 093380
Lab Number: L1001103
Report Date: 02/05/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 51,3C(M)
Analytical Date: 02/04/10 17:09
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-06,09-10 Batch: WG399542-2				
Helium	ND		%	0.010

Lab Control Sample Analysis

Batch Quality Control

Project Name: GASTOWN FORMER MGP

Project Number: 093380

Lab Number: L1001103

Report Date: 02/05/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 Batch: WG399542-1								
Helium	102		-		80-120	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-10 QC Sample: L1001103-10 Client ID: GT-DPV-XX						
Helium	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-3 QC Sample: L1001103-01 Client ID: GT-SS-01						
Helium	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-4 QC Sample: L1001103-02 Client ID: GT-SS-02						
Helium	0.144	0.144	%	0		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-5 QC Sample: L1001103-03 Client ID: GT-SS-03						
Helium	1.74	1.75	%	1		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-6 QC Sample: L1001103-04 Client ID: GT-SS-XX						
Helium	1.96	1.96	%	0		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-7 QC Sample: L1001103-05 Client ID: GT-DPV-01						
Helium	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-8 QC Sample: L1001103-06 Client ID: GT-DPV-02						
Helium	ND	ND	%	NC		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-06,09-10 QC Batch ID: WG399542-9 QC Sample: L1001103-09 Client ID: GT-DPV-06						
Helium	ND	ND	%	NC		5

Project Name: GASTOWN FORMER MGP **Lab Number:** L1001103

Project Number: 093380 **Report Date:** 02/05/10

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1001103-01	GT-SS-01	0288	#90 SV		-	-	36	39	8
L1001103-01	GT-SS-01	1716	2.7L Can	L0918813	-29.2	-0.1	-	-	-
L1001103-02	GT-SS-02	0377	#30 AMB		-	-	33	34	3
L1001103-02	GT-SS-02	385	2.7L Can	L0918813	-29.2	-0.1	-	-	-
L1001103-03	GT-SS-03	0341	#30 AMB		-	-	33	32	3
L1001103-03	GT-SS-03	1734	2.7L Can	L0918813	-29.2	-0.6	-	-	-
L1001103-04	GT-SS-XX	0149	#90 SV		-	-	36	44	20
L1001103-04	GT-SS-XX	357	2.7L Can	L0918813	-29.2	-0.8	-	-	-
L1001103-05	GT-DPV-01	0429	#90 SV		-	-	36	35	3
L1001103-05	GT-DPV-01	146	2.7L Can	L0918813	-29.2	-1.3	-	-	-
L1001103-06	GT-DPV-02	0275	#90 SV		-	-	35	39	11
L1001103-06	GT-DPV-02	461	2.7L Can	L0918813	-29.2	-0.3	-	-	-
L1001103-07	GT-DPV-03	0182	#16 AMB		-	-	35	33	6
L1001103-07	GT-DPV-03	411	2.7L Can	L0918813	-29.2	-29.1	-	-	-
L1001103-08	GT-DPV-05	0084	#30 AMB		-	-	36	37	3
L1001103-08	GT-DPV-05	407	2.7L Can	L0918813	-29.2	-29.0	-	-	-
L1001103-09	GT-DPV-06	0364	#90 SV		-	-	34	35	3

Project Name: GASTOWN FORMER MGP **Lab Number:** L1001103

Project Number: 093380 **Report Date:** 02/05/10

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1001103-09	GT-DPV-06	524	2.7L Can	L0918813	-29.2	-2.8	-	-	-
L1001103-10	GT-DPV-XX	0172	#90 SV		-	-	35	34	3
L1001103-10	GT-DPV-XX	332	2.7L Can	L0918813	-29.2	1.2	-	-	-
L1001103-11	GT-IA-GYM	0013	#16 AMB		-	-	3.1	3.3	6
L1001103-11	GT-IA-GYM	959	6.0L Can	L0918814	-29.3	-2.5	-	-	-
L1001103-12	GT-IA-CLS	0363	#16 AMB		-	-	3.3	3.5	6
L1001103-12	GT-IA-CLS	1661	6.0L Can	L0918814	-29.3	-2.2	-	-	-
L1001103-13	GT-IA-CAF	0187	#16 AMB		-	-	3.3	3.3	0
L1001103-13	GT-IA-CAF	941	6.0L Can	L0918814	-29.3	-3.0	-	-	-
L1001103-14	GT-IA-XX	0199	#16 AMB		-	-	3.2	3.3	3
L1001103-14	GT-IA-XX	1531	6.0L Can	L0918814	-29.3	-2.1	-	-	-
L1001103-15	GT-OA-SE	0064	#16 SV		-	-	3.2	3.2	0
L1001103-15	GT-OA-SE	898	6.0L Can	L0918814	-29.3	0.7	-	-	-
L1001103-16	GT-OA-NW	0169	#16 AMB		-	-	3.2	3.3	3
L1001103-16	GT-OA-NW	744	6.0L Can	L0918814	-29.3	1.1	-	-	-
L1001103-17	UNUSED CAN 983	0455	#16 AMB		-	-	3.3	3.3	0
L1001103-17	UNUSED CAN 983	983	6.0L Can	L0918814	-29.3	-29.3	-	-	-

Project Name: GASTOWN FORMER MGP **Lab Number:** L1001103

Project Number: 093380 **Report Date:** 02/05/10

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1001103-18	UNUSED CAN 612	0004	#16 AMB		-	-	3.2	3.2	0
L1001103-18	UNUSED CAN 612	612	6.0L Can	L0918814	-29.3	-29.3	-	-	-

Project Name: GASTOWN FORMER MGP
Project Number: 093380

Lab Number: L1001103
Report Date: 02/05/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1001103-01A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-02A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-03A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-04A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-05A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-06A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-07A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	HOLD(14)
L1001103-08A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L1001103-09A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-10A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30),FIXGAS-HE(2)
L1001103-11A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L1001103-12A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L1001103-13A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L1001103-14A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L1001103-15A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L1001103-16A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	NF-TO15(30)
L1001103-17A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L1001103-18A	Canister - 6 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L1001103-19A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L1001103-20A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L1001103-21A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()
L1001103-22A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	CLEAN-FEE()

*Hold days indicated by values in parentheses

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L1001103
Project Number:	093380	**Report Date:**	02/05/10

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	· Not detected at the reported detection limit for the sample.
NI	· Not Ignitable.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name:	GASTOWN FORMER MGP	**Lab Number:**	L1001103
Project Number:	093380	**Report Date:**	02/05/10

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

51 Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources. Method 3C. Appendix A, Part 60, 40 CFR (Code of Federal Regulations). June 20, 1996.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised December 15, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 3005A,3020, 6020, 245.1, 245.7, 1631E, 7470A, 7474, 9014, 120.1, 9050A, 180.1, SM4500H-B, 2320B, 2510B, 2540D,9040. Organic Parameters: EPA 3510C, 5030B, 9010B, 624, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl.

AIR ANALYSIS

PAGE 1 OF 2

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1001103

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park
Woburn, MA 01801
Phone: 781 721 4000
Fax:
Email: rsiegener@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gastown Former MGP
Project Location: Tonawanda, NY
Project #: ~~091220~~ 093380
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager) Ray Siegener

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Provide ASP Level B data package.

Other Project Specific Requirements/Comments: Please HOLD Cans after initial extraction for Potential PIANO analysis after data review ***DO NOT CLEAN***

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-14A by TO-15	TO-15 + MeHgHexane	TO-15 SIM + TICs	APH	FIXED GASES Helium	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1001103-1	GT-SS-01	1/21/10	0951	1109	-30+	-4	SV	tad/gvm	2.7	1716	0288		X	X		X			
-2	GT-SS-02	1/21/10	1007	1121	-30+	-3	SV	tad/gvm	2.7	885	0327		X						
-3	GT-SS-03	1/21/10	1030	1141	-30+	-5	SV	tad/gvm	2.7	1734	0341		X						
-4	GT-SS-XX	1/21/10	1200	1330	-26	-1	SV	tad/gvm	2.7	357	0149		X						
-5	GT-DPV-01		1209	1249	-29	-3				146	1249		X						
-6	GT-DPV-02		1217	1301	-30+	-2				461	0275		X						
-7	GT-DPV-03		1227	1346	-30+	-30+				411	0182		X						
-8	GT-DPV-05		1309	1410	-26	-26				407	0084		X						
-9	GT-DPV-06		1255	1357	-29	-3				524	0364		X						
-10	GT-DPV-XX	1/21/10	1200	1330	-30+	-5.5	SV	tad/gvm	2.7	332	0172		X	X		X			
	Container Type												6L	CS		CS			

Helium and TO-15 only (no SIM or TICs)

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	1/21/10 1446	FedEx	
FedEx	1/22/10 1010		1/22/10 1010

Form No: 101-02 (19-Jun-09)

02051016:35

AIR ANALYSIS

PAGE 2 OF 2

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1001103

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park
Woburn MA 01801
Phone: 781 721 4000
Fax:
Email: rsiegener@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Goetown Former MGP
Project Location: Tonawanda, NY
Project #: 093380
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager) Ray Siegener

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Provide ASP level B data Package

Other Project Specific Requirements/Comments: These were 24-hour samples. Start times are on 1/20/10 and end times are on 1/21/10.
Please HOLD after initial extraction for potential PIANO. *DO NOT CLEAN*

NO Helium Analysis on IA/OA samples.
TO-15 only (no SIM or TICs)

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-14A by TO-15	TO-15	TO-15 SIM	APH	TO-13A	TO-14/TO-10	Sample Comments (i.e. PID)
L1001103-11	GT-1A-SV/M	1/20/10 - 1/21/10	0755	0742	-30+	-2	AA	gvm/tad	6	959	0013	X	X		X			
-12	GT-1A-01S	1/20/10 - 1/21/10	0804	0744	-30+	-3	"	"	"	166	363	X	"		"			
-13	GT-1A-SAF	1/20/10 - 1/21/10	0810	0745	-30+	0	"	"	"	941	087	X	"		"			
-14	GT-1A-XX	1/20/10 - 1/21/10	0800	1330	-30+	-3	"	"	"	1581	0495	X	"		"			
-15	GT-0A-SE	1/20/10 - 1/21/10	0834	0726	-30	-4	AA	gvm/tad	6	898	0064	X	↓		↓			
-16	GT-0A-NW	1/20/10 - 1/21/10	0825	0727	-30+	-5	AA	gvm/tad	6	744	0169	X	X		X			

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: CS

Relinquished By:	Date/Time	Received By:	Date/Time:
FedEx	1/21/10 1446	FedEx	
	1/22/10 1010		1/22/10 1010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (19-Jun-09)

AIR ANALYSIS

PAGE 1 OF 2

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

02051016:35

Date Rec'd in Lab:

ALPHA Job #: L1001103

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park
Woburn, MA 01801
Phone: 781 721 4000
Fax:
Email: rsiegener@geiconsultants.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Gastown Former MGP
Project Location: Tonawanda, NY
Project #: ~~091220~~ 093380
Project Manager: Bill Simons
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)
Ray Siegener

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ANALYSIS: TO-14A by TO-15 | TO-15 | TO-15 SIM + TICs | APH | FIXED GASES Helium | TO-13A | TO-4/TO-10

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM + TICs	APH	FIXED GASES Helium	TO-13A	TO-4/TO-10	Sample Comments (i.e. PID)
L1001103 -1	GT-SS-01	1/21/10	0951	1109	-30+	-4	SV	tad/gvm	2.7	1716	0288			X		X			
-2	GT-SS-02	1/21/10	1007	1121	-30+	-3	SV	tad/gvm	2.7	~~385~~	0377								
-3	GT-SS-03	1/21/10	1030	1141	-30+	-5	SV	tad/gvm	2.7	1734	0341								
-4	GT-SS-~~XX~~	1/21/10	~~1200~~ 1209	~~1330~~ 1249	-26	-1	SV	tad/gvm	2.7	357	0149								
-5	GT-DPV-01	↓	1209	1249	-29	-3	↓	↓	↓	146	1249								
-6	GT-DPV-02		1217	1301	-30+	-2				461	0275								
-7	GT-DPV-0~~5~~		1227	1346	-30+	-30+				411	0182								
-8	GT-DPV-05		1309	1410	-26	-26				407	0084								
-9	GT-DPV-06	↓	1255	1357	-29	-3	↓	↓	↓	524	0364			↓		↓			
-10	GT-DPV-XX	1/21/10	1200	1330	-30+	-5.5	SV	tad/gvm	2.7	332	0172			X		X			

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type		~~CS~~	CS		CS			

Relinquished By:	Date/Time	Received By:	Date/Time:
FedEx	1/21/10 1446	FedEx	
	1/22/10 1010		1/22/10 1010

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Form No: 101-02 (19-Jun-09)

AIR ANALYSIS

PAGE 2 OF 2

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
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02051016:35

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ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: *(if different than Project Manager)*
Ray Siegener

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS: TO-14A by TO-15	TO-15	TO-15 SIM + TICs	APH	FIXED GASES Helium	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1001103 -11	GT-1A-GWM	1/20/10 - 1/21/10	0755	0742	-30+	-2	AA	gvm/tad	6	959	0013			X		X			
-12	GT-1A-GLS	1/20/10 - 1/21/10	0804	0744	-30+	-3	↓	↓	↓	1661	363			↓		↓			
-13	GT-1A-GAF	1/20/10 - 1/21/10	0810	0745	-30+	0				941	087								
-14	GT-1A-XX	1/20/10 - 1/21/10	1200	1330	-30+	-3	↓	↓	↓	1531	0495								
-15	GT-0A-SE	1/20/10 - 1/21/10	0834	0726	-30	-4	AA	gvm/tad	6	898	0064			↓		↓			
-16	GT-0A-NW	1/20/10 - 1/21/10	0825	0727	-30+	-5	AA	gvm/tad	6	744	0169			X		X			

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: CS | | | CS | CS | CS | | |

Relinquished By:	Date/Time	Received By:	Date/Time:
FEDEX	1/21/10 1446	FedEx	
	1/22/10 1010		1/22/10 1010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 (19-Jun-09)

Appendix E

New York State Department of Health Air Sampling Results

STATE OF NEW YORK
DEPARTMENT OF HEALTH

584 Delaware Avenue, Buffalo, New York 14202

Richard F. Daines, M.D.
Commissioner

Wendy E. Saunders
Chief of Staff

July 23, 2008

Pastor Nelsen
Open Bible Baptist School
72 East Niagara Street
Tonawanda, NY 14150

Re: Soil Gas Investigation
Former Gastown MGP Site
Site# 915171
Tonawanda (C) Erie County

Dear Pastor Nelsen:

On February 28, 2008, the New York State Department of Environmental Conservation and Health (State) collected air samples at your school to assess the potential for vapors from contaminants in the groundwater to enter your school and affect the quality of your indoor air. These contaminants may move from the groundwater into your school and affect the quality of air where you could be exposed to them through a process referred to as soil vapor intrusion (see enclosed fact sheet for additional information.)

Overall, the air sampling completed at your property shows that your indoor air quality is generally comparable to that of buildings not affected by environmental contamination. During the sampling, the consultant made a list of products in your school that could generate vapors - a "product inventory." Many items listed on your product inventory contain chemicals that were observed in the indoor air. The use or storage of these items appears to have contributed to the presence of chemicals detected in the indoor air.

Chemicals detected under the building do not appear to be currently affecting the indoor air. However, we believe that the levels detected beneath your school can represent a potential issue related to soil vapor intrusion. To address this and in an effort to limit the greatest extent possible, the potential risk of any effects from site contamination, the State recommended installation of a sub-slab depressurization system in your school. This system, which is similar to a radon mitigation system, is essentially a venting system that draws the air from beneath the building and vents it to the outdoor air above the roofline. The installation will be completed at no cost to you.

National Fuel Gas has recently signed an agreement with the State to address the contamination at the above referenced site. As a condition of this agreement, National Fuel Gas agreed to install the sub-slab depressurization systems prior to the upcoming heating season. A representative from National Fuel Gas will be contacting you to discuss this with you in more detail.

I have enclosed copies of your analytical results and your product inventory. A more detailed discussion of your results can be provided by contacting me at 716-847-4501. Thank you for allowing us access to your school to evaluate the air quality. We appreciate your assistance in our environmental evaluation of the Former Gastown MGP site.

Sincerely,

Cameron O'Connor
Public Health Specialist III

cc: G. Litwin/ R. Fedigan/ File
M. Kowalski, ECHD
D. Sutton - DEC Reg. 9
W. Ottaway - DEC, Central Office
J. Cox, NFG
T. Alexander, NFG
D. Terry, GEI Consultants, Inc.
S. Mugel, NFG
J. Greenthal, Esq.

	2008		2005			
	Church		Bible School			
Name	subslab	basement	Ambient	Basement	Soil Gas	Soil Gas
Potentially MGP-related						
Benzene	3.23	1.39	<1.6	<5.7	8.2	10.7
Toluene	12.17	4.48	1.9	<6.7	122	31.8
Ethylbenzene	1.12	0.77	<2.2	<7.7	8	4.8
Xylenes (m&p)	4.56	2.84	<2.2	<7.7	24.2	10.1
Xylenes (o)	1.89	1.12	<2.2	<7.7	5.9	3.3
1,2,4-Trimethylbenzene	4.38	2.05	<2.5	<8.8	<2.5	<2.5
1,3,5-Trimethylbenzene	1.36	0.68	<2.5	<8.8	<2.5	<2.5
Styrene	0.93	0.59	<2.1	<7.6	5.2	<2.1
Not MGP Related						
Acetone (2-propanone)	44.28	14.96	8	29.9	56.9	62.4
*Ethanol	39.27	29.04	<0.9	<3.2	<0.9	<0.9
Isopropanol	38.52	93.83	<1.2	<4.3	<1.2	<1.2
n-Hexane	36,37	0.98	<1.8	<6.4	36.5	20.3
Cyclohexane	22.71		<1.7	<6.1	14.5	25
Methylene chloride	21.47	1.65	<1.7	<6.2	<1.7	<1.7
Carbon disulfide	17.64	0.19	<1.6	<5.7	<1.6	19.1
Chloroform	13.25	0.1	<2.4	<8.7	<2.4	<2.4
1,1,1-Trichloroethane	7.67		<2.7	<9.7	<2.7	7.3
n-Heptane	7.63	0.73	<2.0	<7.1	30.7	25.1
2-Butanone (Methyl ethyl ketone)	6.72	2.04	<1.5	<5.3	11.7	19.6
Dichlorodifluoromethane	3.13	2.64	<2.5	<8.8	<2.5	<2.5
Trichlorofluoromethane	2.89	4.12	<2.8	33	45.5	20.2
1,3-Hexachlorobutadiene	2.54	2.32	<5.3	<19.0	<5.3	<5.3
1,2,4-Trichlobenzene	1.91	1.32	<3.7	<13.2	<3.7	<3.7
*4-Ethyltoluene	1.85	0.78	<2.5	<8.9	<2.5	<2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	0.76	0.61	<3.8	<13.6	<3.8	<3.8
*Furan, tetrahydro-	0.7		<1.5	<5.3	<1.5	5.2
Carbon tetrachloride	0.62	0.62	<3.1	<11.0	<3.1	<3.1
Tetrachloroethene (PCE)	0.54	0.13	<3.4	<12.1	10.6	16.7
Chlorobenzene	0.46	0.18	<2.3	<8.2	<2.3	<2.3
1,2-Dichloroethane	0.24		<2.0	<7.2	<2.0	<2.0
Trichloroethene (TCE)	0.11	0.11	<2.7	<9.6	15.4	36.1
*4-Methyl-2-pentanone (MIBK)		3.17	<2.0	<7.1	4.3	<2.0
1,4-Dichlorobenzene			<3.0	<10.7	11.1	<3.0
Chloromethane		0.98	<1.0	<3.7	<1.0	<1.0
MTBE (Methyl *tert*-butyl ether)			<1.8	<6.4	<1.8	<1.8
Propene			<0.9	<3.2	15.4	6.5
Methyl Cyclohexane			0	72.28748	0	0
methyl cyclohexane			0	0	72.28748	68.27151
methyl cyclopentane			0	0	0	48.19002
xenon			32.21857	0	0	0
2-methyl pentane			0	0	0	38.77238

10 pgs DRAFT
78 pgs FINAL

OSR-3

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Greg Young Date/Time Prepared 2/26/08

Preparer's Affiliation Engre GeoServices Phone No. (585) 359.2730

Purpose of Investigation Vapor Intrusion

1. OCCUPANT: Church

Interviewed: (Y) / N

Last Name: McKnight First Name: Pat

Address: 72 East Niagara Street Property No. 1

County: Erie

Home Phone: _____ Office Phone: 716-695-3584 10-15 adults

Number of Occupants/persons at this location _____ Age of Occupants ~~15-5~~ 36 kids

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential (School) Commercial/Multi-use
Industrial Church Other: _____

2/26 @ 1425 2/27 @ 1415

013 9571-95A-013-0227 2008

241/2669 East Subslab -28 0

315/2666 East Indoor -29 0

014 BS-M

Church

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: School

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 2 Building age 1950's

Is the building insulated? (Y) N How air tight? Tight (Average) Not Tight

4. AIRFLOW NA

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

_____

_____

_____

Airflow near source

_____

_____

_____

Outdoor air infiltration

_____

_____

_____

Infiltration into air ducts

_____

_____

_____

Church

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	partially covered	covered with Carpet, tile	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y (N)			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 6? (feet)

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

See map

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other _____
Air conditioning:	Central Air	Window units	Open Windows	None

Downstairs

Church

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time (Occasionally) Seldom Almost Never During the day

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	Classroom / Gym
1st Floor	Office / Classroom
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y (N)

b. Does the garage have a separate heating unit? Y (N) NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y (N) NA Please specify_____

d. Has the building ever had a fire? Y (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y (N) Where?_____

f. Is there a workshop or hobby/craft area? Y (N) Where & Type? _____

g. Is there smoking in the building? Y (N) How frequently? _____

h. Have cleaning products been used recently? Y (N) When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? Potentially

Church

j. Has painting/staining been done in the last 6 months? (Y) N Where & When? July 07 upstairs

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y (N) If yes, where vented? _____

o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? Y (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

c. Responsibility for costs associated with reimbursement explained? Y / N

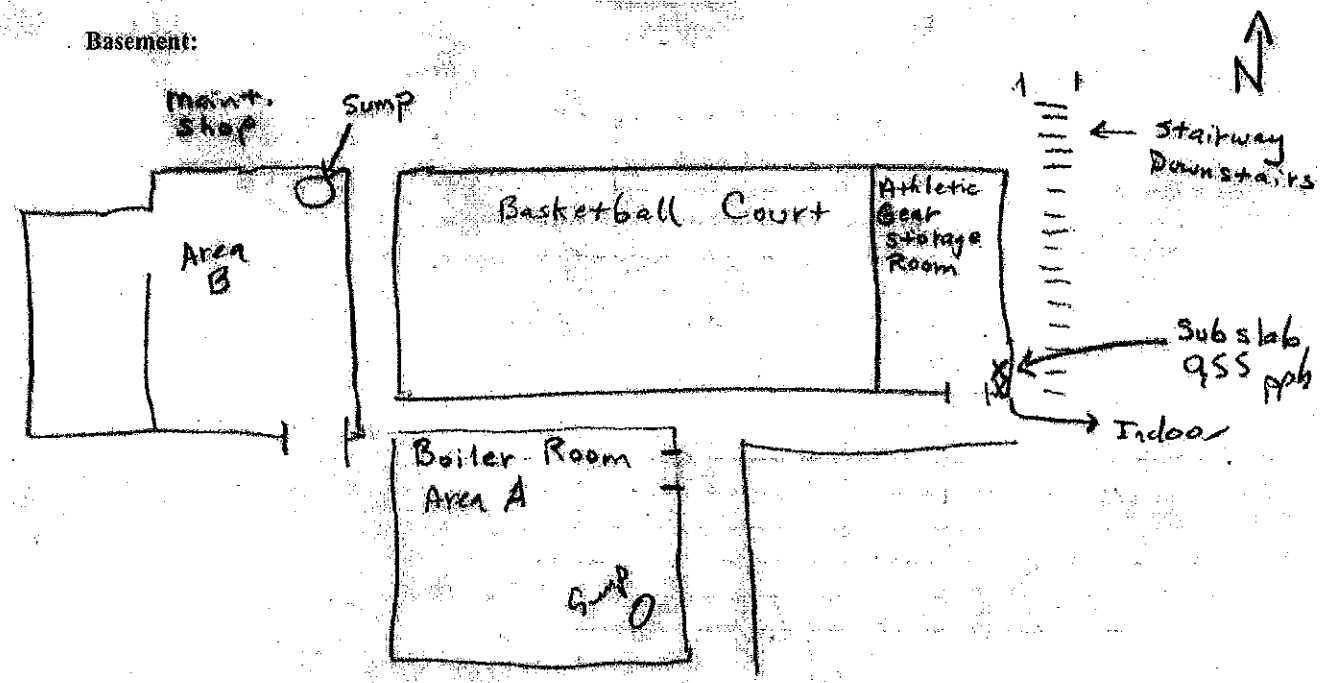
d. Relocation package provided and explained to residents? Y / N

ch.ch

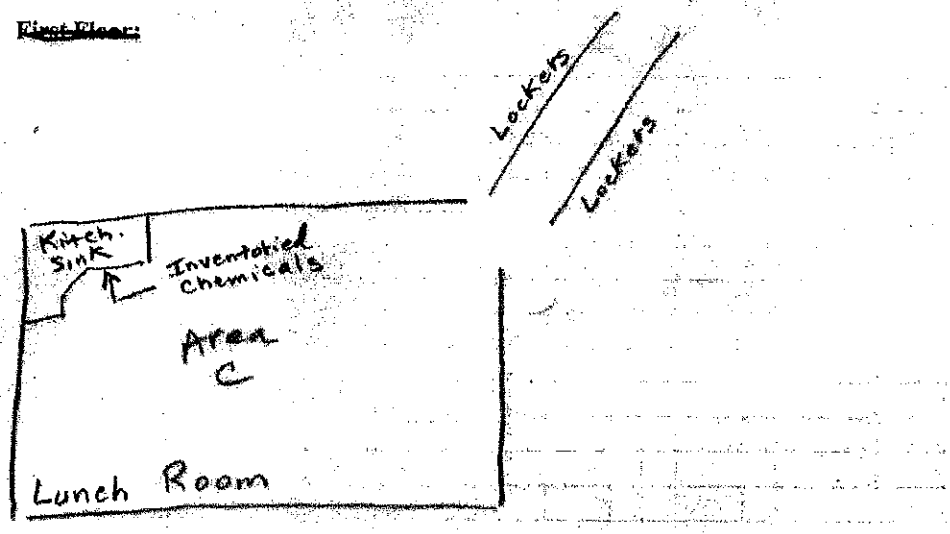
11. FLOOR PLANS

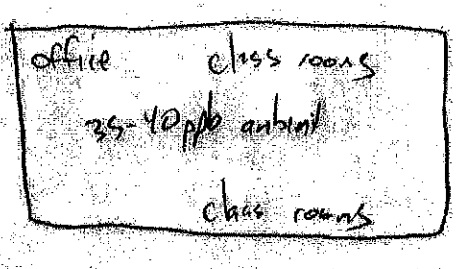
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



~~First Floor:~~





Church

12. OUTDOOR PLOT

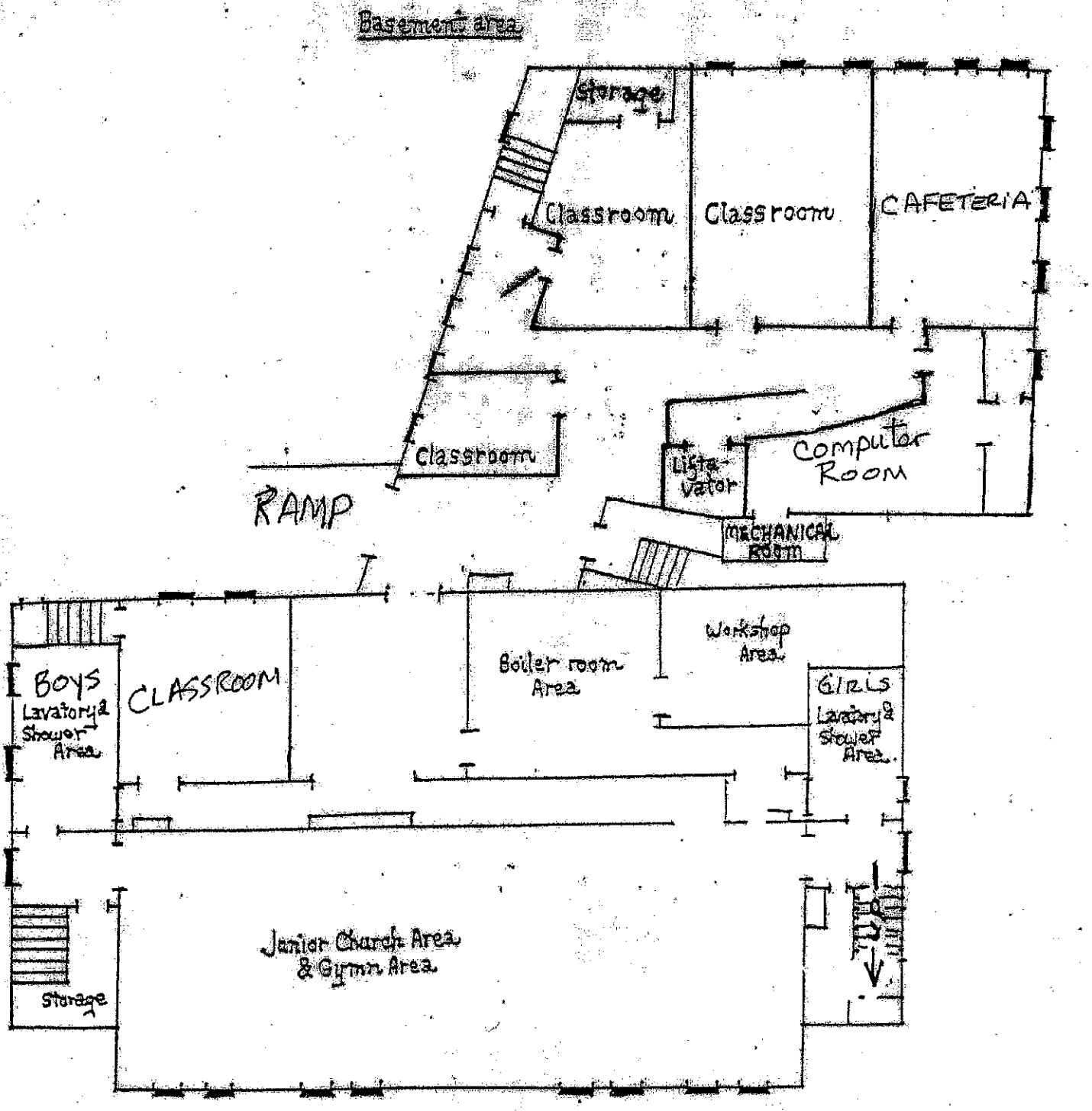
Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

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

No atdoor Sample

Ambint PID = 0 ppb

Chuck


Basement area
Storage
Classroom
Classroom
CAFETERIA
Classroom
RAMP
Lista-vator
Computer Room
MECHANICAL Room
Workshop Area
Boiler room Area
BOYS Lavatory & Shower Area
CLASSROOM
GIRLS Lavatory & Shower Area
Junior Church Area & Gymn Area
Storage

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE PGM 7240

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

2-26-08

ppb Bgd 30

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
CHURCH BASEMENT AREA-B	Briggs + Stratton 6HP - 22" cut			GAS	9834	
	Sunoco - DOT 3 Brake Fluid	12 oz	U	Diethylene glycol, butyl ether, triethylene glycol monomethyl ether, ethoxytriglycol		
	Valvoline multi purpose grease	14.1oz	UO	N/A		
	STP Radiator Treatment	32oz	U	N/A		
3-	Rustoleum oil Based	32oz	U	N/A		
8-	Red Devil/Liq. Nails concrete/mortar repair	10.1oz	3-UO 5-U	Calcium Carbonate, Aqueous Polymer Emulsion, Butyl Benzyl Phthalate, Silica, Ethylene Glycol, Mineral Spirits		
	Aqua Mix Grout Haze	Pt.	UO	N/A		
	Red Devil Paint/Varnish Remover	Gal.	U	Methylene Chloride, Methanol, Acetone + Toluene		
	Plasti-Kote High Vis-Spray	11oz	U	N/A		
2-	Plasti-Kote Car color	6oz	U	N/A		
17-	PAINT	5gal	U	CRYSTALLINE SILICA		
	~25 Buckets of paint	Gal	U	↓		
	~10 Cans of Paint	30oz	U			
	Pytoil - starting fluid Johnson's - Carb cleaner	11 oz 13oz	U	HEPTANE, Diethyl Ether, CO_2 N/A		
	Mar-Hyde Undercoating	18oz	UO	Min. Spirits, Toluene + Asphalt	143	
	Recordsol Paint thinner	qt.	U	N/A	670	
	Turtle Wax Zip Wax	64oz	UO	N/A		
	Carpet Ant Control	Gal	U	Chlorpyrifos, Phosphorothioate	93	
	Rectorseal Leak Preventer	Pt	U	N/A		

* Describe the condition of the product containers as **Unopened (UO), Used (U), or Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Ch-M

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE PGM 7240

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

2-26-08

ppb
BGD
~~478~~
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Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
CHURCH Area A BASEMENT	Power House Fabric Refresher	33oz	U	N/A	69d	
4	Liquid Nails Polyurethane adhesive	10 oz	UO-3 U-1	Crystalline Silica - in the state of CA-Known to cause Cancer Polyurethane Resin, Benzene, Methylenebis, 4-Isocyanato,		
	Rust-OLEUM Enamel - oil based	32oz	U	Propanol, 2-Methoxymethylethoxy, Stoddard solvent N/A 2609		
	Sally Hansen Polish Remover	8oz	U	Ethyl acetate, Isopropyl alcohol, dimethyl glutarate, dimethyl succinate, dimethyl adipate, Panthenol,	69d	
	Rubbing Alcohol	16oz	U	Tocopheryl Acetate, Benzophenone-3 Isopropyl Alcohol 540		
	Dutch Boy Latex Semi Gloss	29oz	U	Vinyl Polymer, Calcium Carbonate, 2-Butoxyethox-ethanol, Cristobalite		
	CLOROX	1.42 gal	U	Sodium Hypochlorite		
	Executive Choice Multi Purp. cleaner	Gal	U	Dodecyl-Benzenesulfonic Acid, Potassium Tallate, Nonylphenyl Polyethylene Oxide, Potassium Hydroxide		
	BFlo. Ind. Chem Return Line Treat	35gal	U	Cyclonexylanine		
	Johnson Wax Floor Finish	gal	UO	Ethylene Glycol, Diethylene Glycol Monoethyl Ether, Monoethyl Acrylic Polymers		
5	Lysol Bathroom Disinfect.	32oz	U	Citric Acid		
	ICEX - Deicer	32oz	U	N/A	111	
	Windex	26oz	U	N/A		
AREA-C	Ajax + Crystal Shine Dishwashing soap	38oz	U	Triclosan		
	Pine Glo	48oz	U	N/A		
	Liqua-Therm S.S. + metal polish	18oz	U	Chlorinated Solvents	114	
Area-B	Macklanburg-Duncan Floor adhesive	Gal	U	N/A	58	
	Behr Acrylic Latex paint	Gal	U	N/A		
	STP oil treatment	14.2	U	N/A		

22
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* Describe the condition of the product containers as **Unopened (UO), Used (U), or Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Church

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	Enalytic	EPA SAMPLE NO.	013
Lab Code:	11920		
Contract:	Gastown	Lab Sample ID:	1014314
SDG No.:	1014	Lab File ID:	1014314.D
Matrix:	AIR	Date Received:	2/29/2008
Sample Volume:	450ml	Date/Time Analyzed:	3/7/08 20:50
Instrument ID:	5975AIR1	Dilution Factor	1.84
Column ID:	Rtx-1, 60m, 0.32mmID, 1um		

CAS NO.	MW	COMPOUND	RESULTS ppbv	Q
115-07-1	42.08	Propene	1.84	U
75-71-8	120.90	Dichlorodifluoromethane	0.59	J
74-87-3	50.49	Chloromethane	1.84	U
76-14-2	170.90	Freon-114	1.84	U
75-01-4	62.50	Vinyl Chloride	1.84	U
106-99-0	54.09	1,3-Butadiene	1.84	U
74-83-9	94.94	Bromomethane	1.84	U
75-00-3	64.52	Chloroethane	1.84	U
64-17-5	46.07	Ethanol	19.36	E D
67-64-1	58.08	Acetone	17.31	D
107-02-8	56.06	Acrolein	1.84	U
75-69-4	137.40	Trichlorofluoromethane	0.48	J
67-63-0	60.10	Isopropanol	14.55	D
75-35-4	96.94	1,1-Dichloroethene	1.84	U
75-09-2	84.94	Methylene Chloride	5.74	D
76-13-1	187.40	Freon-113	0.09	J
75-15-0	76.14	Carbon Disulfide	5.26	D
156-60-5	96.94	trans-1,2-Dichloroethene	1.84	U
75-34-3	98.96	1,1-Dichloroethane	1.84	U
1634-04-4	88.15	MTBE	1.84	U
108-05-4	86.09	Vinyl Acetate	1.84	U
78-93-3	72.11	2-Butanone	2.12	D
156-59-2	96.94	cis-1,2-Dichloroethene	1.84	U
141-78-6	88.11	Ethyl Acetate	1.84	U
110-54-3	86.17	Hexane	9.59	D
67-66-3	119.40	Chloroform	2.52	D
109-99-9	72.11	Tetrahydrofuran	0.22	J
107-06-2	98.96	1,2-Dichloroethane	0.06	J
71-55-6	133.40	1,1,1-Trichloroethane	1.31	J
71-43-2	78.11	Benzene	0.94	J
56-23-5	153.80	Carbon Tetrachloride	0.09	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Enalytic

EPA SAMPLE NO. 013

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014314

SDG No.: 1014

Lab File ID: 1014314.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:50

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

CAS NO.	MW	COMPOUND	RESULTS ppbv	Q
110-82-7	84.16	Cyclohexane	6.13	D
78-87-5	113.00	1,2-Dichloropropane	1.84	U
75-27-4	163.80	Bromodichloromethane	1.84	U
123-91-1	88.11	1,4-Dioxane	1.84	U
79-01-6	131.40	Trichloroethene	0.02	J
80-62-6	100.10	Methyl Methacrylate	1.84	U
142-82-5	100.20	Heptane	1.73	J
10061-01-5	111.00	cis-1,3-Dichloropropene	1.84	U
108-10-1	100.20	4-Methyl-2-pentanone	1.84	U
10061-02-6	111.00	trans-1,3-Dichloropropene	1.84	U
79-00-5	133.40	1,1,2-Trichloroethane	1.84	U
108-88-3	92.14	Toluene	3.00	D
591-78-6	100.20	2-Hexanone	1.84	U
124-48-1	208.30	Dibromochloromethane	1.84	U
106-93-4	187.90	1,2-Dibromoethane	1.84	U
127-18-4	165.80	Tetrachloroethene	0.07	J
108-90-7	112.60	Chlorobenzene	0.09	J
100-41-4	106.20	Ethylbenzene	0.24	J
	106.20	m&p Xylene	0.98	J
75-25-2	252.70	Tribromomethane	1.84	U
100-42-5	104.10	Styrene	0.20	J
79-34-5	167.90	1,1,2,2-Tetrachloroethane	1.84	U
95-47-6	106.20	o-Xylene	0.40	J
622-96-8	120.20	4-Ethyltoluene	0.35	J
108-67-8	120.20	1,3,5-Trimethylbenzene	0.26	J
95-63-6	120.20	1,2,4-Trimethylbenzene	0.83	J
95-49-8	126.60	2-Chlorotoluene	1.84	U
541-73-1	147.00	1,3-Dichlorobenzene	1.84	U
106-46-7	147.00	1,4-Dichlorobenzene	1.84	U
95-50-1	147.00	1,2-Dichlorobenzene	1.84	U
120-82-1	181.50	1,2,4-Trichlorobenzene	0.24	J
87-68-3	260.80	1,3-Hexachlorobutadiene	0.22	J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Enalytic

EPA SAMPLE NO. 013

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014314

SDG No.: 1014

Lab File ID: 1014314.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:50

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

Number TICs found: 14

CAS NO.	RETENTION TIME	COMPOUND NAME	ESTIMATED CONCENTRATION ppbv
000075-28-5	5.186	Isobutane	4.62
000106-97-8	5.492	Butane	3.46
	6.523	unknown	5.85
000109-66-0	7.011	Pentane	2.76
000108-87-2	12.946	Cyclohexane, methyl-	8.54
000638-04-0	14.365	Cyclohexane, 1,3-dimethyl-, cis-	2.91
	15.141	column bleed	131.27
000080-56-8	17.848	.alpha.-Pinene	6.18
	18.623	unknown	267.72
	18.63	unknown	267.72
	18.637	unknown	232.83
000124-18-5	18.868	Decane	2.58
	20.616	unknown hydrocarbon	6.42
	21.406	unknown	91.98

TICs are reported in ppbv only because the concentration of unknowns cannot be converted to ug/m3 as no molecular weight is available.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Enalytic

EPA SAMPLE NO. 013

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014314

SDG No.: 1014

Lab File ID: 1014314.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:50

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

CAS NO.	MW	COMPOUND	RESULTS ug/m3	Q
115-07-1	42.08	Propene	3.41	U
75-71-8	120.90	Dichlorodifluoromethane	3.13	J
74-87-3	50.49	Chloromethane	4.09	U
76-14-2	170.90	Freon-114	13.85	U
75-01-4	62.50	Vinyl Chloride	5.06	U
106-99-0	54.09	1,3-Butadiene	4.38	U
74-83-9	94.94	Bromomethane	7.69	U
75-00-3	64.52	Chloroethane	5.23	U
64-17-5	46.07	Ethanol	39.27	D
67-64-1	58.08	Acetone	44.28	D
107-02-8	56.06	Acrolein	4.54	U
75-69-4	137.40	Trichlorofluoromethane	2.89	J
67-63-0	60.10	Isopropanol	38.52	D
75-35-4	96.94	1,1-Dichloroethene	7.85	U
75-09-2	84.94	Methylene Chloride	21.47	D
76-13-1	187.40	Freon-113	0.76	J
75-15-0	76.14	Carbon Disulfide	17.64	D
156-60-5	96.94	trans-1,2-Dichloroethene	7.85	U
75-34-3	98.96	1,1-Dichloroethane	8.02	U
1634-04-4	88.15	MTBE	7.14	U
108-05-4	86.09	Vinyl Acetate	6.98	U
78-93-3	72.11	2-Butanone	6.72	D
156-59-2	96.94	cis-1,2-Dichloroethene	7.85	U
141-78-6	88.11	Ethyl Acetate	7.14	U
110-54-3	86.17	Hexane	36.37	D
67-66-3	119.40	Chloroform	13.25	D
109-99-9	72.11	Tetrahydrofuran	0.70	J
107-06-2	98.96	1,2-Dichloroethane	0.24	J
71-55-6	133.40	1,1,1-Trichloroethane	7.67	J
71-43-2	78.11	Benzene	3.23	J
56-23-5	153.80	Carbon Tetrachloride	0.62	J

Conversion to ug/m3 is based on the Universal Gas Law Constant of 8.3145(m3*Pa)/(mol*K) and the IUPAC Standard Reference Conditions of 0degC(273.15K) and 100kPa.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Enalytic

EPA SAMPLE NO. 013

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014314

SDG No.: 1014

Lab File ID: 1014314.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:50

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

CAS NO.	MW	COMPOUND	RESULTS ug/m3	Q
110-82-7	84.16	Cyclohexane	22.71	D
78-87-5	113.00	1,2-Dichloropropane	9.16	U
75-27-4	163.80	Bromodichloromethane	13.27	U
123-91-1	88.11	1,4-Dioxane	7.14	U
79-01-6	131.40	Trichloroethene	0.11	J
80-62-6	100.10	Methyl Methacrylate	8.11	U
142-82-5	100.20	Heptane	7.63	J
10061-01-5	111.00	cis-1,3-Dichloropropene	8.99	U
108-10-1	100.20	4-Methyl-2-pentanone	8.12	U
10061-02-6	111.00	trans-1,3-Dichloropropene	8.99	U
79-00-5	133.40	1,1,2-Trichloroethane	10.81	U
108-88-3	92.14	Toluene	12.17	D
591-78-6	100.20	2-Hexanone	8.12	U
124-48-1	208.30	Dibromochloromethane	16.88	U
106-93-4	187.90	1,2-Dibromoethane	15.22	U
127-18-4	165.80	Tetrachloroethene	0.54	J
108-90-7	112.60	Chlorobenzene	0.46	J
100-41-4	106.20	Ethylbenzene	1.12	J
	106.20	m&p Xylene	4.56	J
75-25-2	252.70	Tribromomethane	20.47	U
100-42-5	104.10	Styrene	0.93	J
79-34-5	167.90	1,1,2,2-Tetrachloroethane	13.60	U
95-47-6	106.20	o-Xylene	1.89	J
622-96-8	120.20	4-Ethyltoluene	1.85	J
108-67-8	120.20	1,3,5-Trimethylbenzene	1.36	J
95-63-6	120.20	1,2,4-Trimethylbenzene	4.38	J
95-49-8	126.60	2-Chlorotoluene	10.26	U
541-73-1	147.00	1,3-Dichlorobenzene	11.91	U
106-46-7	147.00	1,4-Dichlorobenzene	11.91	U
95-50-1	147.00	1,2-Dichlorobenzene	11.91	U
120-82-1	181.50	1,2,4-Trichlorobenzene	1.91	J
87-68-3	260.80	1,3-Hexachlorobutadiene	2.54	J

Conversion to ug/m3 is based on the Universal Gas Law Constant of 8.3145(m3*Pa)/(mol*K) and the IUPAC Standard Reference Conditions of 0degC(273.15K) and 100kPa.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Enalytic

EPA SAMPLE NO. 014

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014315

SDG No.: 1014

Lab File ID: 1014315.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:10

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

CAS NO.	MW	COMPOUND	RESULTS ppbv	Q
115-07-1	42.08	Propene	1.84	U
75-71-8	120.90	Dichlorodifluoromethane	0.50	J
74-87-3	50.49	Chloromethane	0.44	J
76-14-2	170.90	Freon-114	1.84	U
75-01-4	62.50	Vinyl Chloride	1.84	U
106-99-0	54.09	1,3-Butadiene	1.84	U
74-83-9	94.94	Bromomethane	1.84	U
75-00-3	64.52	Chloroethane	1.84	U
64-17-5	46.07	Ethanol	14.32	D
67-64-1	58.08	Acetone	5.85	D
107-02-8	56.06	Acrolein	1.84	U
75-69-4	137.40	Trichlorofluoromethane	0.68	J
67-63-0	60.10	Isopropanol	35.46	D
75-35-4	96.94	1,1-Dichloroethene	1.84	U
75-09-2	84.94	Methylene Chloride	0.44	J
76-13-1	187.40	Freon-113	0.07	J
75-15-0	76.14	Carbon Disulfide	0.06	J
156-60-5	96.94	trans-1,2-Dichloroethene	1.84	U
75-34-3	98.96	1,1-Dichloroethane	1.84	U
1634-04-4	88.15	MTBE	1.84	U
108-05-4	86.09	Vinyl Acetate	1.84	U
78-93-3	72.11	2-Butanone	0.64	J
156-59-2	96.94	cis-1,2-Dichloroethene	1.84	U
141-78-6	88.11	Ethyl Acetate	1.84	U
110-54-3	86.17	Hexane	0.26	J
67-66-3	119.40	Chloroform	0.02	J
109-99-9	72.11	Tetrahydrofuran	1.84	U
107-06-2	98.96	1,2-Dichloroethane	1.84	U
71-55-6	133.40	1,1,1-Trichloroethane	1.84	U
71-43-2	78.11	Benzene	0.40	J
56-23-5	153.80	Carbon Tetrachloride	0.09	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Enalytic

EPA SAMPLE NO. 014

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014315

SDG No.: 1014

Lab File ID: 1014315.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:10

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

CAS NO.	MW	COMPOUND	RESULTS ppbv	Q
110-82-7	84.16	Cyclohexane	1.84	U
78-87-5	113.00	1,2-Dichloropropane	1.84	U
75-27-4	163.80	Bromodichloromethane	1.84	U
123-91-1	88.11	1,4-Dioxane	1.84	U
79-01-6	131.40	Trichloroethene	0.02	J
80-62-6	100.10	Methyl Methacrylate	1.84	U
142-82-5	100.20	Heptane	0.17	J
10061-01-5	111.00	cis-1,3-Dichloropropene	1.84	U
108-10-1	100.20	4-Methyl-2-pentanone	0.72	J
10061-02-6	111.00	trans-1,3-Dichloropropene	1.84	U
79-00-5	133.40	1,1,2-Trichloroethane	1.84	U
108-88-3	92.14	Toluene	1.10	J
591-78-6	100.20	2-Hexanone	1.84	U
124-48-1	208.30	Dibromochloromethane	1.84	U
106-93-4	187.90	1,2-Dibromoethane	1.84	U
127-18-4	165.80	Tetrachloroethene	0.02	J
108-90-7	112.60	Chlorobenzene	0.04	J
100-41-4	106.20	Ethylbenzene	0.17	J
	106.20	m&p Xylene	0.61	J
75-25-2	252.70	Tribromomethane	1.84	U
100-42-5	104.10	Styrene	0.13	J
79-34-5	167.90	1,1,2,2-Tetrachloroethane	1.84	U
95-47-6	106.20	o-Xylene	0.24	J
622-96-8	120.20	4-Ethyltoluene	0.15	J
108-67-8	120.20	1,3,5-Trimethylbenzene	0.13	J
95-63-6	120.20	1,2,4-Trimethylbenzene	0.39	J
95-49-8	126.60	2-Chlorotoluene	1.84	U
541-73-1	147.00	1,3-Dichlorobenzene	1.84	U
106-46-7	147.00	1,4-Dichlorobenzene	1.84	U
95-50-1	147.00	1,2-Dichlorobenzene	1.84	U
120-82-1	181.50	1,2,4-Trichlorobenzene	0.17	J
87-68-3	260.80	1,3-Hexachlorobutadiene	0.20	J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Enalytic

EPA SAMPLE NO.
014

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014315

SDG No.: 1014

Lab File ID: 1014315.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:10

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

Number TICs found: 10

CAS NO.	RETENTION TIME	COMPOUND NAME	ESTIMATED CONCENTRATION ppbv
	5.486	unknown hydrocarbon	2.52
	15.141	column bleed	43.55
000080-56-8	17.848	.alpha.-Pinene	2.59
	18.623	unknown	249.04
	18.637	unknown	249.04
000138-86-3	19.516	Limonene	3.02
	21.406	unknown	108.98
000124-18-5	18.868	Decane	2.58
	20.616	unknown hydrocarbon	6.42
	21.406	unknown	91.98

TICs are reported in ppbv only because the concentration of unknowns cannot be converted to ug/m3 as no molecular weight is available.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Enalytic

EPA SAMPLE NO. 014

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014315

SDG No.: 1014

Lab File ID: 1014315.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:10

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

CAS NO.	MW	COMPOUND	RESULTS ug/m3	Q
115-07-1	42.08	Propene	3.41	U
75-71-8	120.90	Dichlorodifluoromethane	2.64	J
74-87-3	50.49	Chloromethane	0.98	J
76-14-2	170.90	Freon-114	13.85	U
75-01-4	62.50	Vinyl Chloride	5.06	U
106-99-0	54.09	1,3-Butadiene	4.38	U
74-83-9	94.94	Bromomethane	7.69	U
75-00-3	64.52	Chloroethane	5.23	U
64-17-5	46.07	Ethanol	29.04	D
67-64-1	58.08	Acetone	14.96	D
107-02-8	56.06	Acrolein	4.54	U
75-69-4	137.40	Trichlorofluoromethane	4.12	J
67-63-0	60.10	Isopropanol	93.83	E D
75-35-4	96.94	1,1-Dichloroethene	7.85	U
75-09-2	84.94	Methylene Chloride	1.65	J
76-13-1	187.40	Freon-113	0.61	J
75-15-0	76.14	Carbon Disulfide	0.19	J
156-60-5	96.94	trans-1,2-Dichloroethene	7.85	U
75-34-3	98.96	1,1-Dichloroethane	8.02	U
1634-04-4	88.15	MTBE	7.14	U
108-05-4	86.09	Vinyl Acetate	6.98	U
78-93-3	72.11	2-Butanone	2.04	J
156-59-2	96.94	cis-1,2-Dichloroethene	7.85	U
141-78-6	88.11	Ethyl Acetate	7.14	U
110-54-3	86.17	Hexane	0.98	J
67-66-3	119.40	Chloroform	0.10	J
109-99-9	72.11	Tetrahydrofuran	5.84	U
107-06-2	98.96	1,2-Dichloroethane	8.02	U
71-55-6	133.40	1,1,1-Trichloroethane	10.81	U
71-43-2	78.11	Benzene	1.39	J
56-23-5	153.80	Carbon Tetrachloride	0.62	J

Conversion to ug/m3 is based on the Universal Gas Law Constant of 8.3145(m3*Pa)/(mol*K) and the IUPAC Standard Reference Conditions of 0degC(273.15K) and 100kPa.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Enalytic

EPA SAMPLE NO. 014

Lab Code: 11920

Contract: Gastown

Lab Sample ID: 1014315

SDG No.: 1014

Lab File ID: 1014315.D

Matrix: AIR

Date Received: 2/29/2008

Sample Volume: 450ml

Date/Time Analyzed: 3/7/08 20:10

Instrument ID: 5975AIR1

Dilution Factor 1.84

Column ID: Rtx-1, 60m, 0.32mmID, 1um

CAS NO.	MW	COMPOUND	RESULTS ug/m3	Q
110-82-7	84.16	Cyclohexane	6.82	U
78-87-5	113.00	1,2-Dichloropropane	9.16	U
75-27-4	163.80	Bromodichloromethane	13.27	U
123-91-1	88.11	1,4-Dioxane	7.14	U
79-01-6	131.40	Trichloroethene	0.11	J
80-62-6	100.10	Methyl Methacrylate	8.11	U
142-82-5	100.20	Heptane	0.73	J
10061-01-5	111.00	cis-1,3-Dichloropropene	8.99	U
108-10-1	100.20	4-Methyl-2-pentanone	3.17	J
10061-02-6	111.00	trans-1,3-Dichloropropene	8.99	U
79-00-5	133.40	1,1,2-Trichloroethane	10.81	U
108-88-3	92.14	Toluene	4.48	J
591-78-6	100.20	2-Hexanone	8.12	U
124-48-1	208.30	Dibromochloromethane	16.88	U
106-93-4	187.90	1,2-Dibromoethane	15.22	U
127-18-4	165.80	Tetrachloroethene	0.13	J
108-90-7	112.60	Chlorobenzene	0.18	J
100-41-4	106.20	Ethylbenzene	0.77	J
	106.20	m&p Xylene	2.84	J
75-25-2	252.70	Tribromomethane	20.47	U
100-42-5	104.10	Styrene	0.59	J
79-34-5	167.90	1,1,2,2-Tetrachloroethane	13.60	U
95-47-6	106.20	o-Xylene	1.12	J
622-96-8	120.20	4-Ethyltoluene	0.78	J
108-67-8	120.20	1,3,5-Trimethylbenzene	0.68	J
95-63-6	120.20	1,2,4-Trimethylbenzene	2.05	J
95-49-8	126.60	2-Chlorotoluene	10.26	U
541-73-1	147.00	1,3-Dichlorobenzene	11.91	U
106-46-7	147.00	1,4-Dichlorobenzene	11.91	U
95-50-1	147.00	1,2-Dichlorobenzene	11.91	U
120-82-1	181.50	1,2,4-Trichlorobenzene	1.32	J
87-68-3	260.80	1,3-Hexachlorobutadiene	2.32	J

Conversion to ug/m3 is based on the Universal Gas Law Constant of 8.3145(m3*Pa)/(mol*K) and the IUPAC Standard Reference Conditions of 0degC(273.15K) and 100kPa.

NEW YORK STATE
DEPARTMENT OF HEALTH

SOIL VAPOR INTRUSION

Frequently Asked Questions

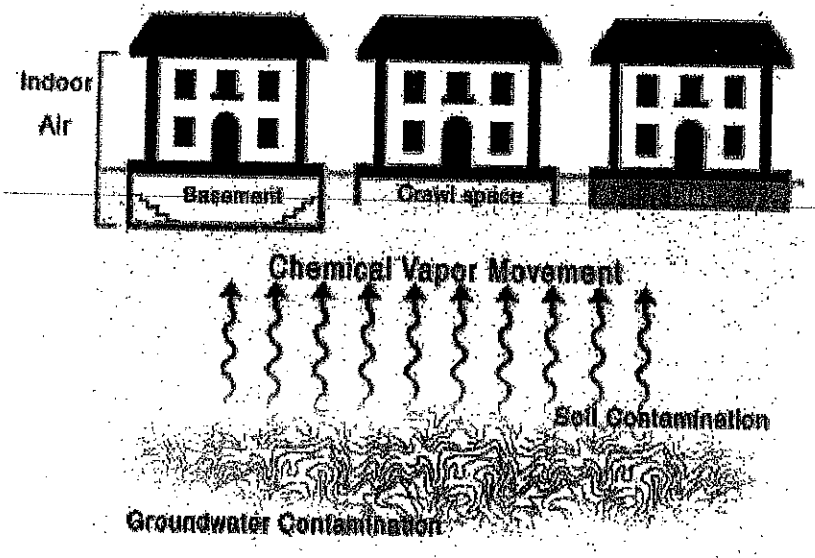
What is soil vapor intrusion?

The phrase "soil vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying buildings.

Soil vapor, or soil gas, is the air found in the pore spaces between soil particles. Because of a difference in pressure, soil vapor enters buildings through cracks in slabs or basement floors and walls, and through openings around sump pumps or where pipes and electrical wires go through the foundation. Heating, ventilation or air-conditioning systems may create a negative pressure that can draw soil vapor into the building. This intrusion is similar to how radon gas seeps into buildings.

Soil vapor can become contaminated when chemicals evaporate from subsurface sources and enter the soil vapor. Chemicals that readily evaporate are called "volatile chemicals." Volatile chemicals include volatile organic compounds (VOCs). Subsurface sources of volatile chemicals may include contaminated soil and groundwater, or buried wastes. If soil vapor is contaminated, and enters a building as described above, indoor air quality may be affected.

When contaminated vapors are present in the zone directly next to or under the foundation of the building, vapor intrusion is possible. Soil vapor can enter a building whether it is old or new, or whether it has a basement, a crawl space, or is on a slab (as illustrated in the figure).



[Source: United States Environmental Protection Agency, Region 3]

How am I exposed to chemicals through soil vapor intrusion?

Humans can be exposed to soil vapor contaminated with volatile chemicals when vapors from beneath a building are drawn through cracks and openings in the foundation and mix with the indoor air. Inhalation is the route of exposure, or the manner in which the volatile chemicals actually enter the body, once in the indoor air.

Current exposures are when vapor intrusion is documented in an occupied building. *Potential* exposures are when volatile chemicals are present, or are accumulating, in the vapor phase beneath a building, but have not affected indoor air quality. Potential exposures also exist when there is a chance that contaminated soil vapors may move to existing buildings not currently affected or when there is a chance that new buildings can be built over existing subsurface vapor contamination. Both current and potential exposures are considered when evaluating soil vapor intrusion at a site that has documented subsurface sources of volatile chemicals.

In general, exposure to a volatile chemical does not necessarily mean that health effects will occur. Whether or not a person experiences health effects depends on several factors, including inhalation exposure, the length of exposure (short-term or acute versus long-term or chronic), the frequency of exposure, the toxicity of the volatile chemical, and the individual's sensitivity to the chemical.

What types of chemicals associated with environmental contamination may be entering my home via soil vapor intrusion?

Volatile organic compounds, or VOCs, are the most likely group of chemicals found in soil vapor, and which can move through the soil and enter buildings. Solvents used for dry cleaning, degreasing and other industrial purposes (e.g., tetrachloroethene, trichloroethene, 1,1,1-trichloroethane and Freon 113) are examples of VOCs. Examples of petroleum-related VOCs from petroleum spills are benzene, toluene, ethyl benzene, xylenes, styrene, hexane and trimethylbenzenes.

Is contaminated soil vapor the only source of volatile chemicals in my indoor air?

No. Volatile chemicals are also found in many household products. Paints, paint strippers and thinners, mineral spirits, glues, solvents, cigarette smoke, aerosol sprays, mothballs, air fresheners, new carpeting or furniture, hobby supplies, lubricants, stored fuels, refrigerants and recently dry-cleaned clothing all contain VOCs. Household products are often more of a source of VOCs in indoor air in homes than contaminated soil vapor.

Indoor air may also become affected when outdoor air containing volatile chemicals enters your home. Volatile chemicals are present in outdoor air due to their widespread use. Gasoline stations, dry cleaners, and other commercial/industrial facilities are important sources of VOCs to outdoor air.

What should I expect if soil vapor intrusion is a concern near my home?

If you live near a site that has documented soil, groundwater and/or soil vapor contaminated with volatile chemicals, you should expect that the potential for vapor intrusion is being, or has been, investigated. You may be contacted by the site owner or others working on the cleanup with information about the project. Your cooperation and consent would be requested before any testing/sampling would be done on your property. You may ask the person contacting you any questions about the work being done. You can also contact the NYSDOH's project manager for the site at 1-800-458-1158 (extension 2-7850) for additional information.

How is soil vapor intrusion investigated at sites contaminated with volatile chemicals?

The process of investigating soil vapor intrusion typically requires more than one set of samples to determine the extent of vapor contamination. Furthermore, four types of environmental samples are collected: soil vapor samples, sub-slab vapor samples, indoor air samples and outdoor air (sometimes referred to as "ambient air") samples.

Soil vapor samples are collected to characterize the nature and extent of vapor contamination in the soil in a given area. They are often collected before sub-slab vapor and/or indoor air samples to help identify buildings or groups of buildings that need to be sampled. Soil vapor samples are used to determine the *potential* for human exposures. *Soil vapor* samples are not the same as *soil* samples.

Sub-slab vapor samples are collected to characterize the nature and extent of vapor contamination in the soil immediately beneath a building with basement foundations or a slab. Sub-slab vapor results are used to determine the potential for *current* and *future* human exposures. For example, an exposure could occur in the future if cracks develop in the building's foundation or changes in the operation of the building's heating, ventilation or air-conditioning system are made that make the movement of contaminated soil vapor into the building possible.

Indoor air samples are collected to characterize the nature and extent of air contamination within a building. Indoor air sample results help to evaluate whether there are *current* human exposures. They are also compared to sub-slab vapor and outdoor air results to help determine where volatile chemicals may be coming from (indoor sources, outdoor sources, and/or beneath the building).

Outdoor air samples are collected to characterize site-specific background air conditions. Outdoor air results are used to evaluate the extent to which outdoor sources, such as automobiles, lawn mowers, oil storage tanks, gasoline stations, commercial/industrial facilities, and so forth, may be affecting indoor air quality.

What should I expect if indoor air samples are collected in my home?

You should expect the following:

- Indoor air samples are generally collected from the lowest-level space in a building, typically a basement, during the heating season. Indoor air samples may also be collected from the first floor of living space. Indoor air is believed to represent the greatest exposure potential with respect to soil vapor intrusion.
- Sub-slab vapor and outdoor air samples are usually collected at the same time as indoor air samples to help determine where volatile chemicals may be coming from (indoor sources, outdoor sources, and/or beneath the building).
- More limited sampling may be performed outside of the heating season. For example, sub-slab vapor samples without indoor air or outdoor air samples may be collected to identify buildings and areas where comprehensive sampling is needed during the heating season.
- An indoor air quality questionnaire and building inventory will be completed. The questionnaire includes a summary of the building's construction characteristics; the building's heating, ventilation and air-conditioning system operations; and potential indoor and outdoor sources of volatile chemicals. The building inventory describes products present in the building that might contain volatile chemicals. In addition, we take monitoring readings from a real-time organic vapor meter (also known as a photoionization detector or PID). The PID is an instrument that detects many VOCs in the air. When indoor air samples are collected, the PID is used to help determine whether

products containing VOCs might be contributing to levels that are detected in the indoor air.

What happens if soil vapor contamination or soil vapor intrusion is identified during investigation of a site?

Depending on the investigation results, additional sampling, monitoring or mitigation actions may be recommended. Additional sampling may be performed to determine the extent of soil vapor contamination and to verify questionable results. Monitoring (sampling on a recurring basis) is typically conducted if there is a significant potential for vapor intrusion to occur should building conditions change. Mitigation steps are taken to minimize exposures associated with soil vapor intrusion. Mitigation may include sealing cracks in the building's foundation, adjusting the building's heating, ventilation and air-conditioning system to maintain a positive pressure to prevent infiltration of subsurface vapors, or installing a sub-slab depressurization system beneath the building.

What is a sub-slab depressurization system?

A sub-slab depressurization system, much like a radon mitigation system, essentially prevents vapors beneath a slab from entering a building. A low amount of suction is applied below the foundation of the building and the vapors are vented to the outside (see illustration). The system uses minimal electricity and should not noticeably affect heating and cooling efficiency. This mitigation system also essentially prevents radon from entering a building, an added health benefit. The party responsible for cleaning up the source of the soil vapor contamination is usually responsible for paying for the installation of this system. If no responsible party is available, New York State will install the system. Once the contamination is cleaned up, the system should no longer be needed. In areas where radon is a problem, the NYSDOH recommends that these systems remain in place permanently.

What else can I do to improve my indoor air quality?

Household products and other factors, such as mold growth, carbon monoxide, and radon, can degrade the quality of air in your home. Consider the following tips to improve indoor air quality:

- Be aware of household products that contain VOCs. Do not buy more chemicals than you need at a time.
- Store unused chemicals in tightly-sealed containers in a well-ventilated location, preferably away from the living space in your home.
- Keep your home properly ventilated. Keeping it too air-tight may promote build up of chemicals in the air, as well as mold growth due to the build up of moisture.
- Fix all leaks promptly, as well as other moisture problems that encourage mold growth.
- Make sure your heating system, hot water, dryer and fireplaces are properly vented and in good condition. Have your furnace or boiler checked annually by a professional.
- Test your home for radon; take actions to reduce radon levels if needed.
- Install carbon monoxide detectors in your home; take immediate actions to reduce carbon monoxide levels if needed.

Where can I get more information?

For additional information about soil vapor intrusion, contact the NYSDOH's Bureau of Environmental Exposure Investigation at 1-800-458-1158 (extension 2-7850).