

April 2, 2009

Mr. Vimal Minocha  
New York State Department of Environmental Conservation  
Hazardous Waste & Radiation Management  
625 Broadway 9th Floor  
Albany, NY 12233-7258

RE: Groundwater/Soil Gas Monitoring and Remedial System Operation and Maintenance, and  
Soil Gas Monitoring Work Plan  
42-14 19<sup>th</sup> Avenue  
Astoria, Queens, New York  
EPA ID# NYD077444263

Dear Mr. Minocha,

Triumvirate Environmental, Inc. is pleased to provide the enclosed report for the noted property. The report summarizes groundwater monitoring activities, soil gas monitoring, soil vapor extraction and air sparge remedial systems operation maintenance and monitoring during the period from November 2008 to March 2009. Additionally, a Work Plan for soil gas monitoring is included for the continued soil gas sampling and monitoring.

If you have any questions, comments, or require additional information please contact the undersigned at our Somerville, Massachusetts office at (800) 966-9282.

Sincerely,  
TRIUMVIRATE ENVIRONMENTAL, INC.



Craig Sasse  
Project Manager



Michael Bricher, PG  
Senior Engineer

Enclosures (2)

cc: Keith Gronwald, NYSDEC (w/ attachment)  
Robert J. Phaneu, NYSDEC  
Jim Reidy, US EPA  
Carol Stein, US EPA (w/ attachment)  
Dawn Hattrick, PE, NYSDOH  
Tim Mooney, Triumvirate Environmental, Inc.  
John McQuillan, Jr., Triumvirate Environmental, Inc.  
Don Gallone, Triumvirate Environmental, Inc.

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Bureau of Hazardous Waste &  
Radiation Management  
Division of Solid & Hazardous Materials

**GROUNDWATER AND SOIL GAS MONITORING,  
REMEDIAL SYSTEM OPERATION AND MAINTENANCE REPORT**

**For The Property Identified As:**

**TRIUMVIRATE ENVIRONMENTAL (NYC), LLC  
42-14 19<sup>th</sup> AVENUE  
ASTORIA, QUEENS, NEW YORK 11105-1082  
EPA ID# NYD077444263**

**Prepared on Behalf of:**

**TRIUMVIRATE ENVIRONMENTAL (NYC), LLC  
42-14 19<sup>th</sup> AVENUE  
ASTORIA, QUEENS, NEW YORK 11105-1082  
EPA ID# NYD077444263**

**For Submission To:**

**MR. VIMAL MINOCHA, P.E.  
ENVIRONMENTAL ENGINEER  
BUREAU OF SOLID WASTE & CORRECTIVE ACTION  
DIVISION OF SOLID & HAZARDOUS WASTE  
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**Prepared By:**

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**JOB NUMBER: 750**

**MARCH 2009**

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**APR 23 2009**

**Bureau of Hazardous Waste &  
Radiation Management  
Division of Solid & Hazardous Materials**

## CERTIFICATION

I certify that I have reviewed the submitted documentation "*Groundwater and Soil Gas Monitoring, Remedial System Operation and Maintenance Report*". This document and all attachments were reviewed in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.



Prepared and reviewed by:

  
Craig Sasse  
Project Manager

  
Michael Bricher, PG  
Senior Engineer

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## 1.0 INTRODUCTION

This Groundwater and Soil Gas Monitoring, Remedial System Operation and Maintenance Report (the Report) has been prepared to summarize activities performed as part of a Resource Conservation and Recovery Act (RCRA) Corrective Action of the property located at 42-14 19<sup>th</sup> Avenue in Astoria, New York (the Site). The location of the Site is shown on Figure 1 and Figure 2. Corrective Measures were implemented based on the results of a RCRA Facility Investigation performed at the Site. Interim Corrective Measures (ICM) implemented include a combination of soil vapor extraction (SVE) systems and an air sparge (AS) system intended to remove the volatile organic compounds (VOCs) identified at the Site.

This Report presents the results of groundwater monitoring activities conducted on February 2, 2009. Data obtained during groundwater monitoring were compared to NYSDEC Standards (6 NYCRR Part 703) and previous results to evaluate the effectiveness of NYSDEC approved Corrective Measures implemented at the Site.

Soil vapor analysis is presented from sampling conducted on February 2, 2009. Data obtained during soil vapor monitoring were compared to the NYSDOH Outdoor Air Guideline Values and previous results to evaluate the effectiveness of mitigation measures.

This Report summarizes the operation, maintenance, and monitoring of the SVE and AS systems operating at the Site during the period of November 2008 to March 2009. This is the thirteenth status report summarizing operation, maintenance and monitoring of the remedial system.

### 1.1 BACKGROUND

In June 1985, VOCs were detected during excavation on 19<sup>th</sup> Avenue, in front of the Chemical Waste Disposal Corporation (CWDC) facility. Between 1993 and 1996 assessment activities were conducted. In 2003, Triumvirate Environmental (NYC), LLC purchased the facility.

In 2003, SVE and AS systems were installed beneath the Outer Warehouse as part of a NYSDEC and EPA approved ICM. Operation of the SVE and AS systems was initiated in November 2003 and May 2004, respectively. In May 2006, expansion of the SVE system was proposed to control off-Site vapor migration and remediate subsurface soil and groundwater. In July 2007, limited remedial excavation was completed and the horizontal vent wells and SVE system were installed along 19<sup>th</sup> Avenue. In September 2007, operation of the SVE system was initiated.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

As part of the previously approved Work Plan activities, groundwater monitoring activities were performed during this period. A summary of activities performed during this reporting period are presented below.

## 2.1 GROUNDWATER GAUGING

On February 4, 2009, TEI inspected, gauged, purged and sampled the following groundwater monitoring wells: MW-12S, MW-12I, MW-19S, MW-19I, MW-20S, MW-20D, MW-24, MW-25, MW-27, MW-31, MW-33, and MW-34. Figure 2 shows the location of each monitoring well. The depth to groundwater below the established measuring point and the overall depth of each monitoring well was measured with an electronic oil/water interface probe, and each well was evaluated for the presence (or absence) of non-aqueous phase liquid (NAPL). No NAPL was identified in any groundwater monitoring well. The depth to groundwater ranged from 4.22 feet to 6.80 feet below top of well casings during this groundwater gauging event. Gauging data generated during the groundwater monitoring event are summarized in Table 1.

Groundwater monitoring well gauging information was used to calculate the groundwater contours presented on Figure 3. As noted on Figure 3, a consistent northerly groundwater flow direction was calculated for the Site. Deep monitoring wells were not included in the groundwater flow calculation as the water table elevations were approximately two feet lower in deep wells, relative to shallow aquifer wells.

## 2.2 MONITORING WELL SAMPLING

On February 4, 2009, groundwater samples were collected from monitoring wells: MW-12S; MW-12I; MW-19S; MW-19I; MW-20S; MW-20D; MW-24; MW-25; MW-27; MW-31; MW-33; and MW-34. Samples were collected using a peristaltic pump with dedicated polyethylene tubing. Each well was purged of three well volumes. Laboratory provided, pre-preserved sample containers were used for collection of samples. Each sample was labeled and logged onto a chain of custody and transported to the laboratory. The samples were submitted to Alpha Analytical Laboratory (Alpha) of Westborough, MA for analysis of VOCs via EPA Method 8260B. A duplicate sample identified as MW-X was collected from monitor well MW-24. Refer to Table 2 for a summary of the groundwater laboratory analytical results. Analytical results are compared to 6 NYCRR Part 703 Groundwater Quality Standards. A copy of the laboratory analytical report is included in Appendix A.

Groundwater VOCs concentrations were utilized from the most recent laboratory analytical data to calculate the total VOCs contours presented on Figure 4. As noted on Figure 4, two areas of elevated total VOCs were identified, centered on monitoring wells MW-31 and MW-34. The relative concentrations of these areas were approximately 300,000 micrograms per liter (ug/l) and 54,000 ug/l, respectively. The VOCs noted in the vicinity of monitoring well MW-31 is predominantly located under 19<sup>th</sup> Avenue and the northern portions of the buildings located at 42-8 19<sup>th</sup> Avenue and 42-14 19<sup>th</sup> Avenue. The VOCs noted in the vicinity of monitoring well MW-34 is predominantly located under 42-14 19<sup>th</sup> Avenue. Both areas are noted as within the area of vacuum of the SVE system.

On February 4, 2009, an inspection of the stormwater catch basins in the vicinity and stormwater system manholes found not liquid available for sampling and as such no stormwater characterization was conducted. This was attributed to below freezing weather conditions consistent with the season. The location of catch basins and manholes are shown on Figure 2.

### 3.0 SOIL GAS MONITORING ACTIVITIES

#### 3.1 SOIL GAS SCREENING

On February 4, 2009, TEI personnel performed soil gas monitoring at soil vapor points SGP-2, SGP-4, SGP-6, SGP-9, SGP-11, SGP-12. The locations of the soil gas vapor points are shown on Figure 2. The purpose of the vapor points is to screen soil gas in the vadose zone at the Site for potential migration. Vacuum readings were collected prior to soil vapor sample collection. Based upon the vacuum readings, the vicinity of each SVE system (approximately a 20 foot radius) was under the influence of a vacuum, up to 0.04 inches of water.

Soil gas screening for total organic vapors (TOVs) was to be performed with a photoionization detector (PID), equipped with a 10.6 electron volt lamp, calibrated to read as benzene. Upon arrival, the PID was found to be malfunctioning and no screening data was collected. A summary of the historical soil gas screening results is presented on Table 4.

#### 3.2 SOIL GAS SAMPLING

A total of eight soil gas samples were collected from the soil vapor monitoring points with a mini-can (400 cc) equipped with a vacuum gauge and flow regulator. The vacuum gauge recorded at least 25" of mercury within each mini-can prior to soil gas sample collection. Each mini-can was filled with soil gas at a rate of no more than 200 milliliters per minute. The soil gas samples were labeled, logged onto a chain of custody, and transported to Alpha Analytical for analysis of VOCs via EPA Method TO-15. A summary of the soil gas sample analytical results is presented on Table 4. A copy of the soil gas laboratory analytical report is included in Appendix B.

As noted on Table 4, the following compounds were detected in soil vapor above the NYS DOH outdoor background values, as listed in the NYS DOH Guidance for Evaluation of Soil Vapor Intrusion in the State of New York, dated October 2006: cis-1,2-dichloroethylene, trichloroethylene, tetrachloroethylene, 1,1,1-trichloroethylene, and 1,1,2,2-tetrachloroethylene. Review of the each concentration relative to the last sampling event finds each compound had decreased in concentration. As such, an overall decrease in soil gas concentrations has been identified, attributed to ongoing SVE and an overall reduction in VOC concentrations in the subsurface.

### 4.0 REMEDIATION SYSTEM MONITORING AND MAINTENANCE

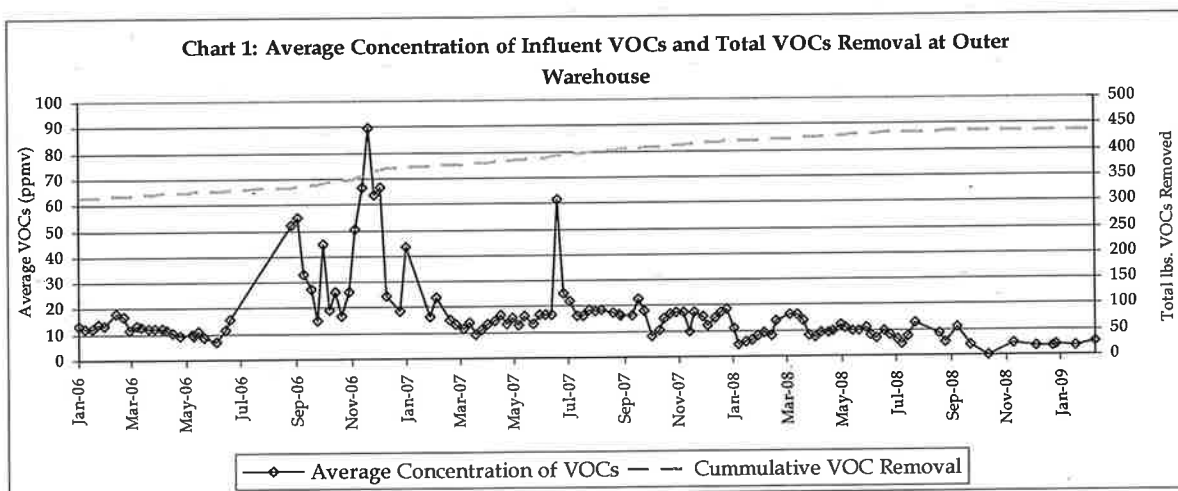
Two remedial systems were installed and are operating at the Site. Both remedial systems are SVE systems with carbon treatment of soil gas prior to discharge. The systems are referred to as the Outer Warehouse system and the 19<sup>th</sup> Avenue system. The Outer Warehouse system also has an air sparge system. A discussion of the operation and maintenance activities conducted on each remedial system is discussed below.

#### 4.1 SVE SYSTEM OPERATIONS AND MAINTENANCE - OUTER WAREHOUSE

The Outer Warehouse SVE system was activated in November 2003. A complete summary of the installation and activation of the SVE and AS system was included in the As-Built Schematic, SVE/AS System Beneath Outer Warehouse letter dated September 2007. During the period of October, 2008 through March 2009, the SVE system operated 137 of 141 days. The shut downs were associated with operation issues on the 19<sup>th</sup> Avenue SVE system. The SVE system operated at a flow rate of approximately 120 standard cubic feet per minute (scfm). VOC concentrations have ranged in the individual SVE legs from non-detect (less than 1 ppmv) to 14.4 ppmv, with influent VOC concentrations ranging from non-detect (less than 1 ppmv) to 10.9 ppmv. Based on VOC concentrations, system flow rate, and hours of operation, the SVE and AS system has removed approximately 1.6 pounds of VOCs in the reporting period and a total of approximately 437.6 pounds of VOCs as of March 5, 2009. Copies of each inspection report are included in Appendix C.

Vacuum influence data was collected at soil gas monitoring points SGP-8 through SGP-13 on a monthly basis to ensure that all soil vapors in the unsaturated soils and the soil vapors created by sparging are captured and treated prior to discharge to the atmosphere. To date, the SVE system has maintained either a measurable vacuum or no vacuum in the soil gas monitoring points. The presence of a vacuum in the vicinity of the air sparge system indicates injected air into the subsurface is not significantly contributing to off-site migration of soil vapor and that soil vapor is being captured and treated.

The SVE system soil vapor off gas stream is treated using one 1,000-pound granular activated carbon (GAC) canister and one 200-pound GAC canister plumbed in series. Chart 1 shows the Outer Warehouse PID concentration of soil gas into the treatment system and total cumulative pounds of VOC removed. Refer to Table 5 for a tabulated summary of the SVE system performance monitoring information from January 2006 to March 2009.



As shown on Chart 1, influent PID concentrations were approximately 20 ppmv for the last reporting period. Overall VOC removal rates have marginally reduced since January 2007. Continuing evaluation of historic and recent soil vapor PID concentrations at each extraction point and flow rates with throttling of flow shall be conducted to optimize VOC removal. Subsurface vacuum throughout the vicinity shall be monitored to assure a maximum area of vapor extraction is maintained and to mitigate potential migration of soil vapors off-site.

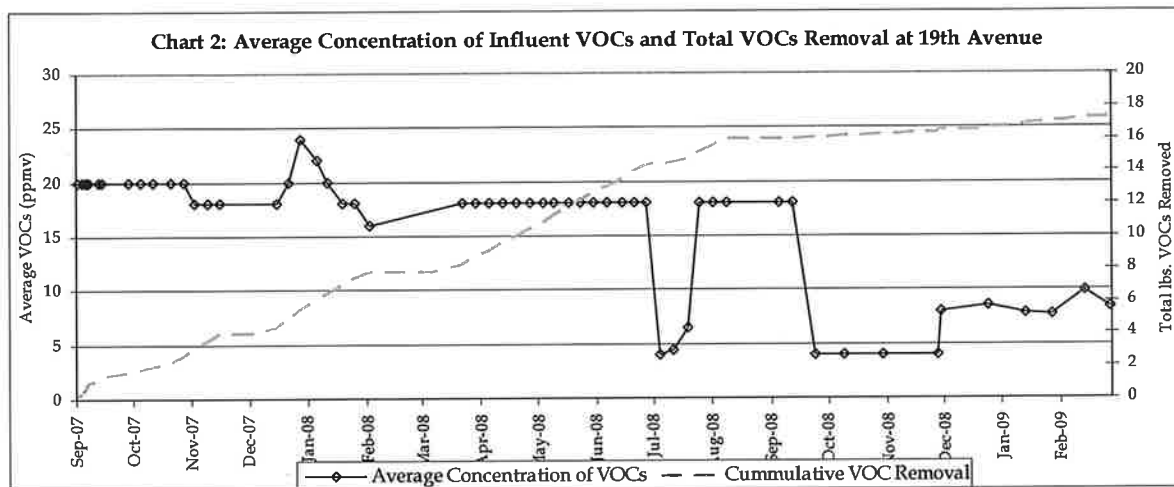
#### 4.2 AS SYSTEM OPERATIONS AND MAINTENANCE

The AS system was activated in May 2004. The AS system has two zones of three wells each. Each zone is controlled by timer-operated solenoid valves that switch zones every four hours. During the period of June 27, 2008, through October 31, 2008, the AS system operated daily from 8:00 AM to 5:00 PM. The AS system injection rate at each injection point operated at flow rates ranging from approximately 1 to 7 scfm. Injection pressures during operation ranged from approximately 7 to 13 psi per leg.

#### 4.3 SVE SYSTEM OPERATIONS AND MAINTENANCE - 19<sup>TH</sup> AVENUE

The 19<sup>th</sup> Avenue SVE system was activated in September 2007. During the period of October, 2008 through March 2009, the SVE system operated 137 of 141 days. Four SVE system shutdowns were observed triggered by the 19<sup>th</sup> Avenue system and were associated with freezing water in the components during unusually cold weather. The SVE system operated at a flow rate of approximately 120 scfm. Refer to Table 5 for well specific flow readings. VOC concentrations have ranged in the individual SVE legs from non-detect (less than 1 ppmv) to 2.9 ppmv, with a total influent VOC concentration ranging from non-detect to 8.6 ppmv. Based on VOC concentrations, system flow rate, and hours of operation, the SVE system has removed approximately 0.5 pounds of VOCs in the reporting period and a total of approximately 17.4 pounds of VOCs as of March 5, 2009. Copies of each inspection report are included in Appendix C.

Vacuum influence data has been collected at soil gas monitoring points SGP-2 through SGP-7 and SGP-14 through SGP-19 on a monthly basis to ensure that all soil vapors in the unsaturated soils and the soil vapors created by sparging are captured and treated prior to discharge to the atmosphere. To date, the SVE system has maintained either a measurable vacuum or no vacuum in the monitoring points. This indicates that soil vapor from the unsaturated soil in the vicinity of 19<sup>th</sup> Avenue is being captured and treated prior to discharge to the atmosphere.



The SVE system soil vapor off gas stream is treated using one 1,000-pound GAC canister and one 200-pound GAC canister plumbed in series. Chart 2 shows the average PID concentration of soil gas into the treatment system and cumulative VOC removal. Refer to Table 5 for a tabulated summary of the SVE system performance monitoring information from January 2006 through March 2009.

As shown on Chart 2, influent PID concentrations have decreased after initiating soil vapor extraction from all extraction legs in October 2008. Inspection of the 19<sup>th</sup> Avenue remedial system has identified significant water accumulation within the SVE lines. Additionally, a low point with cleanouts in the SVE lines at the 19<sup>th</sup> Avenue curb accumulates water reducing air flow and diminishing soil vapor extraction and area of soil gas collection influence. As part of ongoing performance monitoring, continuous system optimization shall be conducted to maximize VOC removal rates and shall include emptying of the water knockouts during each inspection. Continuing evaluation of historic and recent soil vapor PID concentrations at each extraction point and flow rates with throttling of flow shall be adjusted to maximize VOC removal. Subsurface vacuum throughout the vicinity shall be monitored to assure a maximum area of vapor extraction is maintained and to mitigate potential migration of soil vapors off-site.

#### 4.4 MANAGEMENT OF REMEDIATION SYSTEM WASTE

Table 6 summarizes the waste management during this reporting period.

**Table 6: Summary of Waste Management**

| Media      | Manifest Number | Amount (drums) | Date Shipped |
|------------|-----------------|----------------|--------------|
| Wastewater | 4717227JJK      | 2              | 12/1/08      |
| Wastewater | 4717238JJK      | 4              | 12/3/08      |
| Wastewater | 4717282JJK      | 1              | 1/7/09       |
| Wastewater | 4723827JJK      | 2              | 3/18/09      |

As shown on Table 6, a total of nine drums of water were generated and disposed of from the moisture separators on the treatment system. The water was disposed of as a hazardous waste. Copies of the uniform hazardous waste manifests are included in Appendix D.

#### 4.5 EVALUATION CRITERIA FOR DEMONSTRATING EFFECTIVENESS OF REMEDIAL SYSTEMS

The anticipated effectiveness of the active remedial system will be evaluated using the following criteria:

- Groundwater contaminant concentrations reducing to below the groundwater quality standards. At this time contaminant concentrations remain above the applicable groundwater quality standards;
- Asymptotic decline of influent VOC concentrations throughout seasonal remedial system operations. At this time, influent VOC concentrations are low but effective soil vapor migration mitigation is shown;
- Evaluation of the contaminant plume status indicates that it is shrinking vertically and horizontally. At this time, the contaminant plume appears static without significant increases in concentrations detected at any monitoring well; and
- No change in local land or groundwater use. No changes have been observed during the reporting period.

### 5.0 CONCEPTUAL SITE MODEL UPDATE

Based on investigations performed on the property, including data collected from environmental sampling of soil, soil gas, and groundwater, contaminants of concern (COC) for the property include chlorinated VOCs.

#### 5.1 EXTENT OF GROUNDWATER CONTAMINATION

Historical groundwater sample analytical results are summarized in Table 2. Groundwater samples collected over the last year from monitoring wells exhibited concentrations of tetrachloroethene, trichloroethylene, cis-1-2-dichloroethene, 1,1-dichloroethane, 1,1,1-trichloroethane, vinyl chloride, chloroethane, chloroform, benzene, toluene, ethylbenzene, total xylenes, naphthalene, and other alkylbenzenes/chlorobenzenes above their respective 6 NYCRR Part 703 NYSDEC Groundwater Quality Standards. Review of total chlorinated VOCs contours, see Figure 4, identified two areas of elevated concentrations, centered on monitoring wells MW-31 and MW-34 with wells in the vicinity delineating the areas. The relative concentrations of these areas were approximately 300,000 ug/l and 54,000 ug/l, respectively. The VOCs noted in the vicinity of monitoring well MW-31 are predominantly located under 19<sup>th</sup> Avenue and the northern portions of the buildings located at 42-8 19<sup>th</sup> Avenue and 42-14 19<sup>th</sup> Avenue. The VOCs noted in the vicinity of monitoring well MW-34 are predominantly located under 42-14 19<sup>th</sup> Avenue. Charted concentrations of total chlorinated VOCs and benzene, toluene, ethylbenzene, and xylenes (BTEX) were evaluated. The charts for monitoring wells

MW-26, MW-31, MW-34, and MW-35 were overlain on the Site Plan and provided as Figure 5 in Appendix A. The stacked line areas represent the relative proportions of tetrachloroethylene and select daughter compounds (trichloroethylene, cis-dichloroethylene, and vinyl chloride). The total BTEX compounds are shown as a blue line on the second "Y" axis. Review finds the proportion of tetrachloroethylene is greater in the southern portion of the Site. Proportions of cis-dichloroethylene are greater in areas under 19<sup>th</sup> Avenue. A historic review of the fractional proportions of chlorinated VOCs does not indicate a significant change in contaminant composition. An increase in overall VOCs concentration was noted at only the two remaining central areas of chlorinated VOCs characterized by monitoring well MW-31 and MW-34. Additionally, total BTEX concentrations were noted the area of highest concentration at monitoring well MW-31. A slight decreasing trend of total BTEX was noted at monitoring wells MW-12S and MW-20D and consistent concentrations at MW-12I. The relative magnitudes and locations of BTEX concentrations suggests the source of BTEX contamination is from an off-site location and not from the Site.

## 5.2 EXTENT OF SOIL GAS IMPACT

On February 4, 2009, TEI personnel performed soil gas monitoring at soil vapor points SGP-2, SGP-4, SGP-6, SGP-9, SGP-11, SGP-12. Review of the vacuum readings found the vicinity of each SVE system (approximately 20 foot radius) was under the influence of a vacuum, up to 0.04 inches of water.

A total of six soil gas samples were collected from soil vapor points. The soil gas samples were submitted to Alpha Analytical for analysis of VOCs via EPA Method TO-15. Various compounds were detected in soil vapor above the NYS DOH outdoor background values, as listed in the NYS DOH Guidance for Evaluation of Soil Vapor Intrusion in the State of New York, dated October 2006. Review of each concentration relative to the last sampling event finds each compound had decreased in concentration. As such, an overall decrease in soil gas concentrations has been identified, attributed to ongoing SVE and an overall reduction in VOC concentrations in the subsurface. Review of the use of the Site and vicinity finds no changes. The likelihood of indoor air impacts associated with soil gas continues to be mitigated by the SVE system and reduction in VOC concentrations in soil vapor.

## 6.0 COMMUNICATION PLAN

Communication throughout the process is important to successfully execute the work safely and effectively. A summary of key personnel and agencies involved with the implementation activities at the Site is referenced below. In the event that important issues develop at the Site, including but not limited to a health and safety incident, unauthorized visitor, or significant change in scope, the key personnel/agencies will be notified within that same day and made aware of the issue, its consequences, and resolution. All contact information will be verified and updated as necessary during the implementation activities.

|                                                                                                                                                           |                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mr. Thomas Goss: Facility Manager:<br>42-14 19 <sup>th</sup> Avenue<br>Astoria, Queens, New York 11105-1082<br>(800) 427-3320                             | Mr. Vimal Minocha, P.E.: Environmental Engineer<br>Bureau of Solid Waste & Corrective Action<br>Division of Solid & Hazardous Waste<br>NYSDEC:<br>625 Broadway<br>Albany, New York 12233-7258 |
| Mr. Craig Sasse: Project Manager<br>Triumvirate Environmental Incorporated<br>61 Inner Belt Road<br>Somerville, Massachusetts 02143<br>(800) 966-9282     | Dawn Hettrick, P.E. Senior Sanitary Engineer<br>State of New York Department of Health<br>Flanigan Square, 547 River Street<br>Troy, New York 12180-2216<br>(518) 402-7880                    |
| Mr. James Reidy, Chief<br>US EPA, RCRA Program Branch -<br>NY Section, USEPA Region 2<br>US EPA Region 2<br>290 Broadway<br>New York, New York 10007-1866 |                                                                                                                                                                                               |

## 7.0 CONCLUSIONS

In accordance with the August 2006 *Supplemental Work Plan for ICM Expansion*, the SVE remedial system at 19<sup>th</sup> Avenue has been operated, inspected, and maintained. The existing Outer Warehouse SVE/AS remedial system has been operated, inspected, and maintained. Performance information for the remedial systems shows 2.1 pounds of total VOC mass were removed this reporting period and a total of approximately 455.0 pounds of total VOC mass has been recovered to-date. The operation of each system maintains negative pressure and mitigates significant vapor migration from the areas of contamination.

On February 4, 2009, soil vapor sampling was conducted in accordance with the August 2006 *Supplemental Work Plan for Soil Vapor Sampling*. Laboratory analysis results for the soil vapor sampling identified reductions in each VOC and the total VOCs concentrations. Based on the most recent soil vapor screening and sampling results, indoor air impacts to buildings on the Site or in the vicinity are unlikely to occur. Continued soil gas analysis shall be conducted to evaluate the effectiveness of the 19<sup>th</sup> Avenue SVE system in controlling off-site migration.

Groundwater monitoring wells were sampled on February 4, 2009 for the first sampling event in 2009. Groundwater monitoring was performed in accordance with the NYSDEC scope approved on June 13, 2006. Groundwater sampling was conducted on each accessible groundwater monitoring well. The results of the sampling event were compared to data from previous results. Chlorinated petroleum hydrocarbons remain above their respective 6 NYCRR Part 703 NYSDEC Groundwater Quality Standards on the Site and off-site.

## **8.0 LIMITATIONS AND CONDITIONS**

This Report is based on the conditions existing at the Site on the dates of site visits and field investigation activities. Past conditions are considered on the basis of readily available records, interviews, and recollections. Site conditions are subject to variations and changes over time. This report was based on the current fully implemented environmental regulations. Future regulatory modifications, agency interpretations and/or changes may affect the environmental status of the Site. This Report was prepared for the sole use of Triumvirate Environmental, Inc. This Report and findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of Triumvirate Environmental, Inc.

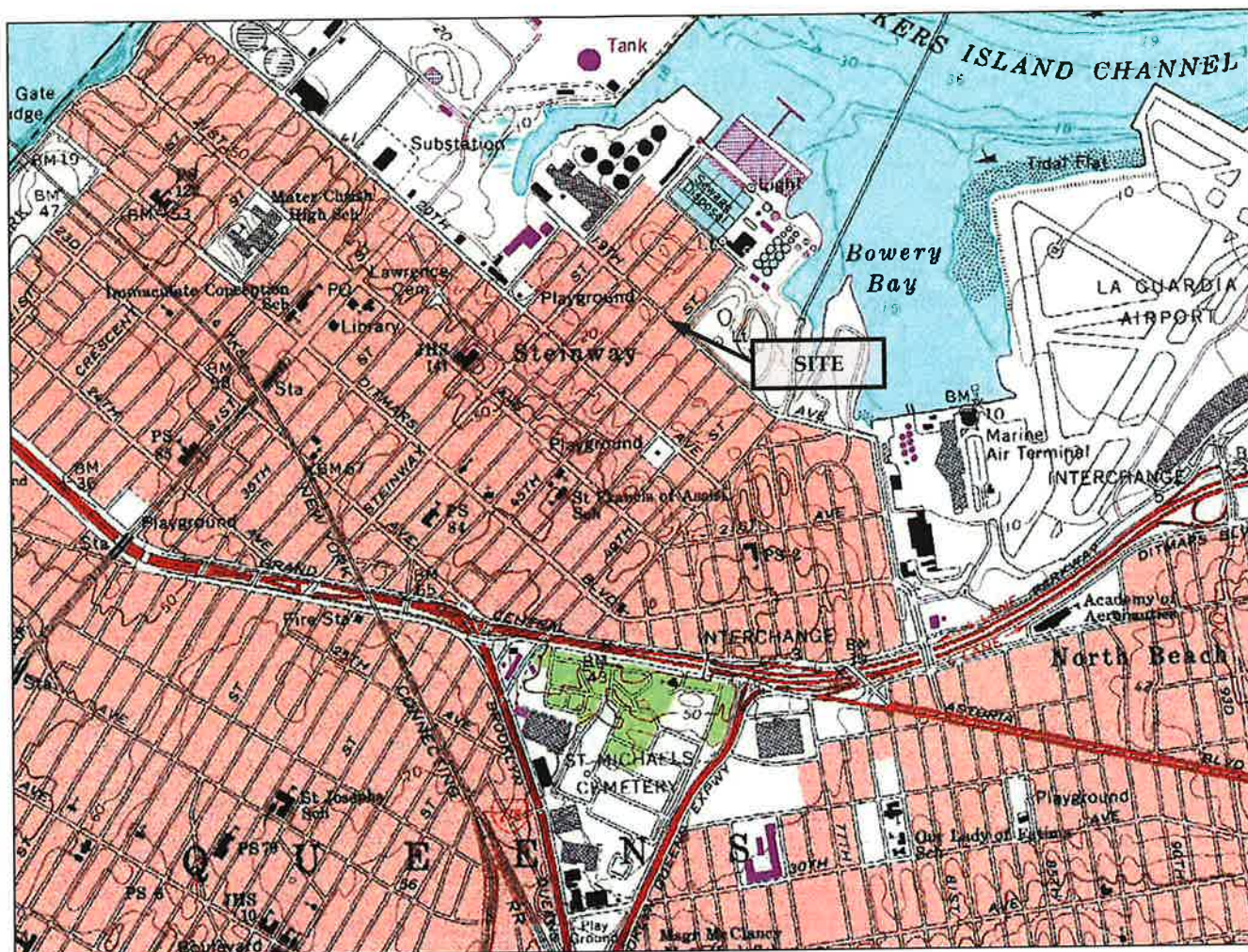


FIGURE 1: USGS LOCUS MAP

42-14 19<sup>th</sup> Avenue  
Astoria, NY

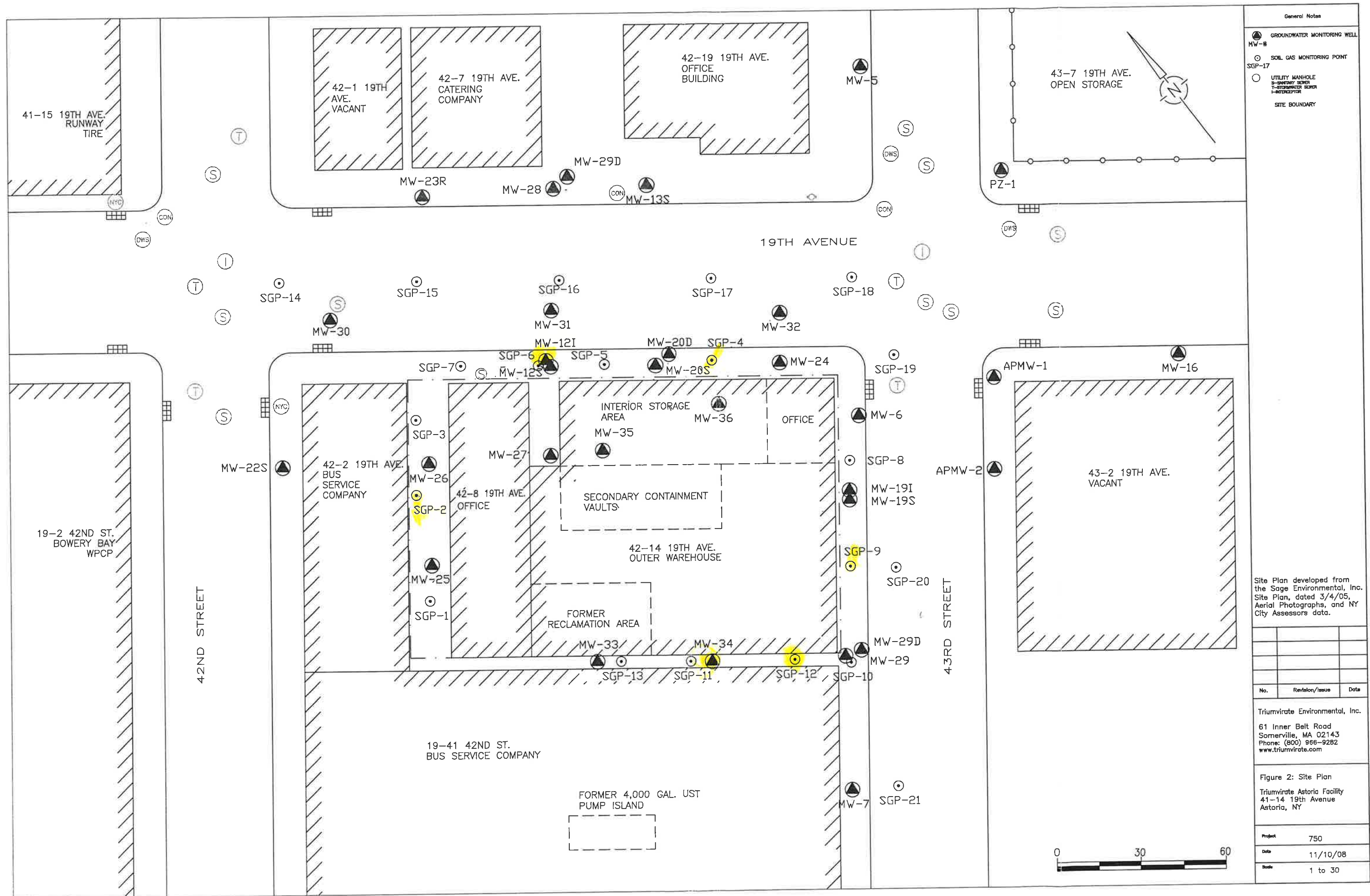
Excerpt from the USGS Topographic Map  
Central Part, NY-NJ Quadrangle, 1966, rev. 1979

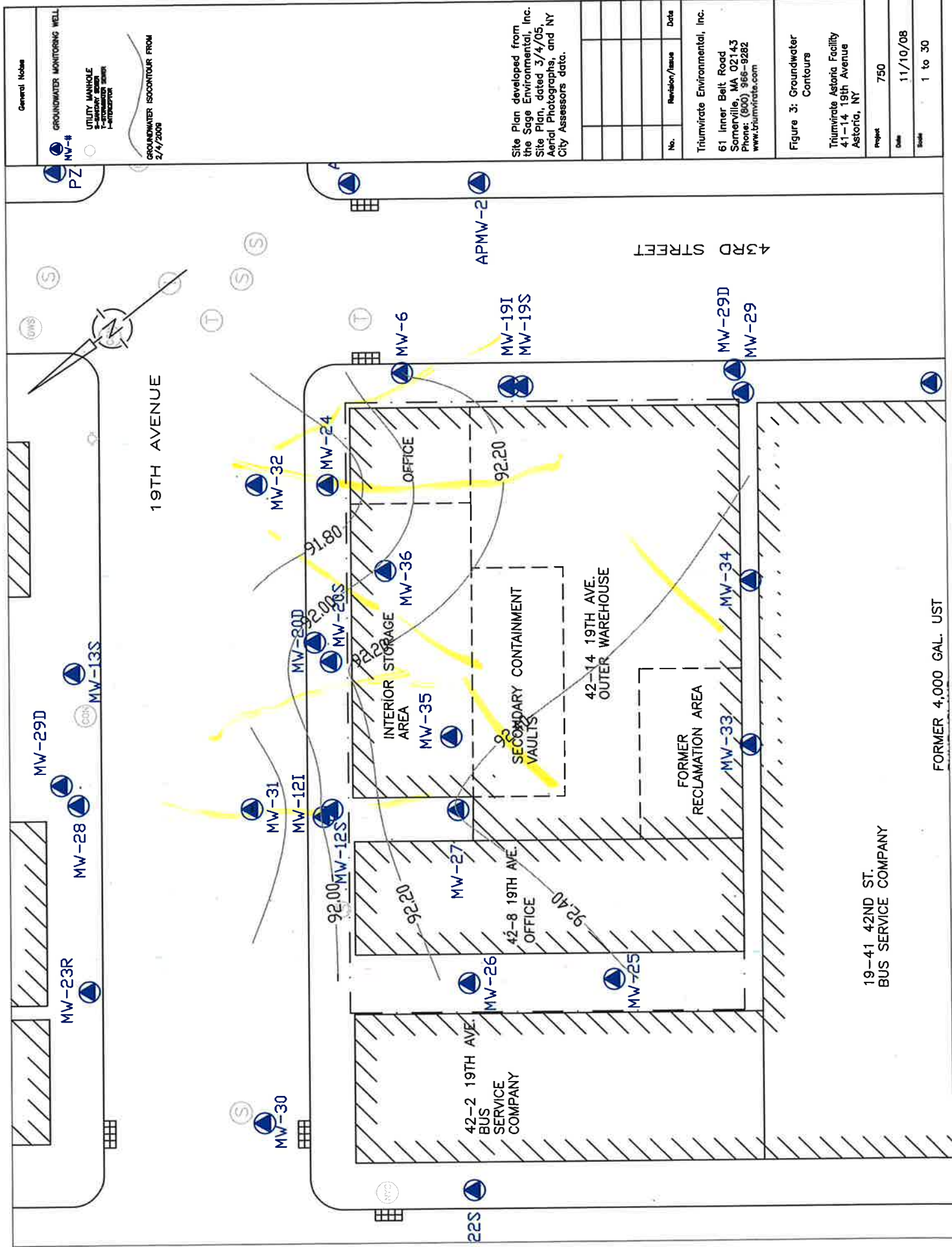
No Scale



TRIUMVIRATE ENVIRONMENTAL, INC.  
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(800) 966-9282, Fax: (617) 628-8099











## **TABLES**

**Table 1**  
**Summary of Monitoring Well Gauging Data**  
**Triumvirate Environmental, Inc.**  
**42-14 19th Avenue**  
**Astoria, New York**

| Monitoring Well Identification | Gauging Date | Well Elevation (feet) | Depth to NAPL (feet) | Depth to Water (feet) | Thickness of NAPL (feet) | Groundwater Elevation (feet) | Top of Screen Elevation (feet) | Comments       |
|--------------------------------|--------------|-----------------------|----------------------|-----------------------|--------------------------|------------------------------|--------------------------------|----------------|
| MW-5                           | 9/29/2008    | 96.51                 |                      | 6.62                  |                          | 89.89                        |                                |                |
| MW-6                           | 9/29/2008    | 96.63                 |                      | 4.04                  |                          | 92.59                        |                                |                |
|                                | 2/4/2009     | 96.63                 |                      | 4.42                  |                          | 92.21                        |                                |                |
| MW-12S                         | 9/29/2008    | 86.38                 |                      | 3.79                  |                          | 82.59                        |                                |                |
|                                | 2/4/2009     | 86.38                 |                      | 4.23                  |                          | 82.15                        |                                |                |
| MW-12I                         | 9/29/2008    | 96.24                 |                      | 3.90                  |                          | 92.34                        |                                |                |
|                                | 2/4/2009     | 96.24                 |                      | 4.22                  |                          | 92.02                        |                                |                |
| MW-13S                         | 9/29/2008    | 96.46                 |                      | 6.89                  |                          | 89.57                        |                                |                |
| MW-16                          | 9/29/2008    | 96.53                 |                      | 3.84                  |                          | 92.69                        |                                |                |
| MW-19S                         | 9/29/2008    | 97.14                 |                      | 4.51                  |                          | 92.63                        |                                |                |
|                                | 2/4/2009     | 97.14                 |                      | 4.91                  |                          | 92.23                        |                                |                |
| MW-20S                         | 9/29/2008    | 96.42                 |                      | 4.97                  |                          | 91.45                        |                                |                |
|                                | 2/4/2009     | 96.42                 |                      | 4.23                  |                          | 92.19                        |                                |                |
| MW-20D                         | 9/29/2008    | 96.62                 |                      | 6.90                  |                          | 89.72                        |                                |                |
|                                | 2/4/2009     | 96.62                 |                      | 6.80                  |                          | 89.82                        |                                |                |
| MW-22S                         | 9/29/2008    | 96.21                 |                      | 3.69                  |                          | 92.52                        |                                |                |
| MW-23R                         | 9/29/2008    | 95.85                 |                      | 6.38                  |                          | 89.47                        |                                |                |
| MW-24                          | 9/29/2008    | 96.86                 |                      | 4.89                  |                          | 91.97                        |                                |                |
|                                | 2/4/2009     | 96.86                 |                      | 5.24                  |                          | 91.62                        |                                |                |
| MW-25                          | 9/29/2008    | 97.62                 |                      | 4.91                  |                          | 92.71                        |                                |                |
|                                | 2/4/2009     | 97.62                 |                      | 5.23                  |                          | 92.39                        |                                |                |
| MW-26                          | 9/29/2008    | 97.17                 |                      | 4.46                  |                          | 92.71                        |                                |                |
| MW-27                          | 9/29/2008    | 99.44                 |                      | 7.76                  |                          | 91.68                        |                                |                |
|                                | 2/4/2009     | 99.44                 |                      | 7.03                  |                          | 92.41                        |                                |                |
| MW-28S                         | 9/29/2008    | 96.07                 | Trace                | 6.77                  | 0.01                     | 89.30                        |                                | Oil noted.     |
| MW-28D                         | 9/29/2008    | 96.08                 |                      | 6.57                  |                          | 89.51                        |                                |                |
| MW-29S                         | 9/29/2008    | 97.89                 |                      | 5.15                  |                          | 92.74                        |                                |                |
| MW-29D                         | 9/29/2008    | 97.80                 |                      | 7.26                  |                          | 90.54                        |                                |                |
| MW-30                          | 9/29/2008    | 95.90                 |                      | 8.65                  |                          | 87.25                        |                                |                |
| MW-31                          | 9/29/2008    | 95.90                 |                      | 4.42                  |                          | 91.48                        |                                |                |
|                                | 2/4/2009     | 95.90                 |                      | 4.31                  |                          | 91.59                        |                                |                |
| MW-32                          | 9/29/2008    | 96.62                 |                      | 8.47                  |                          | 88.15                        |                                |                |
| MW-33                          | 9/29/2008    | 97.52                 |                      | 4.80                  |                          | 92.72                        |                                |                |
|                                | 2/4/2009     | 97.52                 |                      | 5.06                  |                          | 92.46                        |                                |                |
| MW-34                          | 9/29/2008    | 97.32                 |                      | 4.85                  |                          | 92.47                        |                                |                |
|                                | 2/4/2009     | 97.32                 |                      | 4.89                  |                          | 92.43                        |                                |                |
| MW-35                          | 9/29/2008    | 99.28                 |                      | 6.64                  |                          | 92.64                        |                                |                |
| MW-36                          | 9/29/2008    | 99.34                 |                      | 6.80                  |                          | 92.54                        |                                | Chemical odor. |
| PZ-1                           | 9/29/2008    | 96.45                 |                      | 6.19                  |                          | 90.26                        |                                |                |
| APMW-1                         | 9/29/2008    | 96.38                 |                      | 3.74                  |                          | 92.64                        |                                |                |
| APMW-2                         | 9/29/2008    | 97.13                 |                      | 4.21                  |                          | 92.92                        |                                |                |

**Notes:**

ND= Not Detected

NAPL= Non-Aqueous Phase Liquid

NA- Not Applicable

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
**42-14 19th Avenue**  
**Astoria, New York**

[illegible]

CRIMINAL (1901)

NA: Not analyzed

NE: No allowable limit is established for the substance.

### Sample Results:

a: Analyte concentration in this sample exceeds NY SDEC Groundwater Quality Standards (6 NYCRR Part 703)

2. Although the analysis was not a t-test, the laboratory questionnaire results are more suggestive of a significant difference.

NA: Not analyzed  
 NA: No allow the limit is established for the substance  
 ND: Not detected  
 NS: Indicate analyte concentration not detected at or above specified laboratory quantitation limit (x)  
 Sample Results:  
 x: Analyte concentration in this sample exceeds NYSDDEC Groundwater Quality Standards (6 NYCRR Part 201)  
 NA: Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NYSDDEC Groundwater

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
**42-14 19th Avenue**  
**Astoria, New York**

| Sample / Date                      |                           | MW-7    |         |        |         |         |         |         |         |         |        | NYSDEC<br>Groundwater<br>Standard<br>6 NYCRR<br>Part 703 |
|------------------------------------|---------------------------|---------|---------|--------|---------|---------|---------|---------|---------|---------|--------|----------------------------------------------------------|
| Analyte                            | Solubility by E202 (ug/L) | 8/28/93 | 8/29/93 | 2/5/04 | 5/17/04 | 7/25/04 | 1/19/05 | 4/27/05 | 5/24/06 | 6/14/07 |        |                                                          |
| Acetone                            |                           | ND      | <30     | <30    | <30     | <30     | <30     | <30     | <5      | <5      | NE     |                                                          |
| n-Amyl alcohol                     |                           | NA      | <25*    | <25*   | <25*    | <25*    | <25*    | <25*    | <1      | <5      | 5      |                                                          |
| Benzene                            |                           | 39*     | 12*     | 7*     | 12*     | 12*     | <5*     | <5*     | 2.1*    | <1      | 1      |                                                          |
| Bromobenzene                       |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| Bromochloroethane                  |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | NE     |                                                          |
| Bromodichloroethane                |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| Bromofluoromethane                 |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| Bromonitrobenzene                  |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | NE     |                                                          |
| Diethylamine (DEA)                 |                           | NA      | <10     | <10    | <10     | <10     | <10     | <10     | <1      | <5      | 5      |                                                          |
| Dibutylamine (DBA)                 |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| sec-Butylbenzene                   |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| tert-Butylbenzene                  |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | NE     |                                                          |
| Carbon disulfide                   |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| Carbon tetrachloride               |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| Chlorobenzene                      |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| Chloroethane                       |                           | 120*    | 77*     | 86*    | 58*     | 120*    | 41*     | 120*    | <1      | 63*     | 5      |                                                          |
| Chloroform                         |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| Chloromethane                      |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| 1-Chloropropane                    |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| 2-Chloropropane                    |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| 1,2-Dichloroethane (DCE)           |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 0.04   |                                                          |
| 1,2-Dibromo-3-chloropropane (DBCP) |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 0.0006 |                                                          |
| Dibromomethane (EDB)               |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 5      |                                                          |
| Dibromotetrafluoroethane           |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 5      |                                                          |
| Dibromohexafluoroethane            |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 5      |                                                          |
| 1,1-Dichloroethane                 |                           | ND      | <5*     | 0.53   | 0.32    | <5*     | <5*     | <5*     | <1*     | <1*     | 0.6    |                                                          |
| 1,2-Dichloroethane                 |                           | ND      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 5      |                                                          |
| 1,1-Dichloroethylene               |                           | ND      | <5      | 0.68   | 0.75    | <5*     | <5*     | <5*     | <1      | <5      | 5      |                                                          |
| trans-1,2-Dichloroethene           |                           | 2       | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <5      | 5      |                                                          |
| cis-1,2-Dichloroethene             |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <1      | 1      |                                                          |
| 1,2-Dichloropropane                |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <5      | 5      |                                                          |
| 1,3-Dichloropropane                |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <5      | 5      |                                                          |
| 2,2-Dichloropropane                |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <5      | 5      |                                                          |
| 1,1,1-Trichloroethane              |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 0.4    |                                                          |
| cis-1,3-Dichloropropene            |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 0.4    |                                                          |
| trans-1,3-Dichloropropene          |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 0.4    |                                                          |
| Ethylbenzene                       |                           | ND      | <5*     | 0.25   | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 5      |                                                          |
| Hexachlorobutadiene                |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | 0.5    |                                                          |
| Heptachlorobutadiene               |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1*     | <1*     | NE     |                                                          |
| Isopropylbenzene                   |                           | ND      | <10     | <10    | <10     | <10     | <10     | <10     | <1      | <5      | 5      |                                                          |
| 4-Leopropylbenzene                 |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <5      | 5      |                                                          |
| Methyl tert-butyl ether (MTBE)     |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <5      | NE     |                                                          |
| Methyl 1,1,2,2-tetrachloroethane   |                           | NA      | 6.6     | 6      | 7.2     | <5      | 3.2     | <5      | 3.8     | 4.3     | NE     |                                                          |
| Methyl 1,1,2,2-tetrachloroethane   |                           | ND      | <10     | <10    | <10     | <10     | <10     | <10     | <1      | <5      | NE     |                                                          |
| Methyl 1,2,2,2-trichloroethane     |                           | 2       | <10     | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| Methylcyclohexane (MCHC)           |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <1      | 5      |                                                          |
| Naphthalene                        |                           | ND      | <5*     | 0.28   | <5*     | <5*     | <5*     | <5*     | <1      | <1      | 5      |                                                          |
| n-Propylbenzene                    |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| Styrene                            |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,2,3-Trichloropropane             |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,1,1,2-Tetrachloroethane          |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,1,1,2,2-Tetrachloroethane        |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,1,2,2-Tetrachloroethane          |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| Tetrachloroethane (PCE)            |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| Toluene                            |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,2,3-Trichlorobenzene             |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,2,4-Trichlorobenzene             |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,1,1-Trichloroethane              |                           | ND      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,1,2-Trichloroethane              |                           | NA      | <5*     | <5*    | <5*     | <5*     | <5*     | <5*     | <1      | <1      | 1      |                                                          |
| Trichloroethylene (TCE)            |                           | ND      | <5      | <5     | 0.27    | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| Trichlorofluoromethane             |                           | NA      | <5      | 0.23   | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,2,4-Trimethylbenzene             |                           | NA      | <5      | 0.35   | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| 1,3,5-Trimethylbenzene             |                           | NA      | <5      | <5     | <5      | <5      | <5      | <5      | <1      | <1      | 5      |                                                          |
| Vinyl chloride                     |                           | 4*      | <5      | 0.92   | <5*     | <5*     | <5*     | <5*     | <0.5    | <1      | 2      |                                                          |
| and Xylenes                        |                           | ND      | <5      | 1.07   | <5*     | <5*     | <5*     | <5*     | <1      | <1      | 5      |                                                          |

| total Xylenes | NI | NI | NI |
|---------------|----|----|----|
| NI            | NI | NI | NI |

NA: Not analyzed.

NA: Not analyzed  
NE: No allowable limit is established for the substance

Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

### Sample Results:

1: Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703). Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703).

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
42-14, 19th Avenue  
Astoria, New York

[illegible]

NA- Not analyzed

NA: Not analyzed

NE: No allowable limit is established for the substance

**<X:** Indicates analyte concentration not detected at or above specified laboratory quantitation limit (X)

### Sample Results:

a: Analyte concentration in this sample exceeds NYSDEC Contaminant Quality Standards (6 NYCRR Part 203)

c: Although the analytic was not detected, the laboratory quantitation limit for this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)

[illegible]

When necessary, the SYRTEC direction in turn, has been committed to not to match the laboratory reporting method.

NA: Not analyzed

NTE: No Affirmable Tenet is established for the substance.

—X: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (X)

### Sample Results:

4: Analyte concentration in this sample exceeds NYSDC Groundwater Quality Standards (6 NYCRR Part 703)

c: Although the analyte was not detected, the Laboratory quantitation limit for this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
**42-14 19th Avenue**  
**Astoria, New York**

| Sample / Data                      | ASTM D1631, NEW YORK |        |       |        |         |         |         |         |         |         | NY Siliac<br>Groundwater<br>Standard |
|------------------------------------|----------------------|--------|-------|--------|---------|---------|---------|---------|---------|---------|--------------------------------------|
|                                    | MW-439               |        |       |        |         |         |         |         |         |         |                                      |
|                                    | W/2503               | W/2603 | 2/G04 | 5/7/04 | 7/25/04 | 1/18/05 | 6/27/05 | 5/21/06 | 6/16/07 | 9/29/08 |                                      |
| Analysis<br>/data for E1603 (ug/L) |                      |        |       |        |         |         |         |         |         |         |                                      |
| Acetone                            | 4                    | <20    | <20   | <20    | <20     | <20     | <20     | <3      | <10     | <3      |                                      |
| NA                                 | <5*                  | <5*    | <5*   | <5*    | <5*     | <5*     | <5*     | <1      | <10*    | <3      |                                      |
| 140*                               | 14*                  | 21*    | 21*   | 21*    | 41*     | 21*     | 21*     | 21*     | 9*      | 2*      |                                      |
| Benzene                            | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromochloroethane                  | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
| Bromodichloroethane                | NA                   | <5     | <5    | <5     | <5      | <5      | <5      | <1      | <2      | <2.5    |                                      |
|                                    |                      |        |       |        |         |         |         |         |         |         |                                      |

When necessary, the NYSDEC objectives, in ppm, have been converted to ppb to match the laboratory reporting method.

NA: Not analyzed

NA: Not analyzed  
NE: No allowable limit is established for the substance

NE: No allowable limit is established for the substance

**Sample Results:**

**Sample Results:**  
Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)

1. Analyte concentration in this sample exceeds the laboratory quantitation limit for this sample exceeds NYSDEC Groundwater Contamination Regulations.

[illegible]

Where necessary, the NYSDC objectives, in ppm, have been converted to ppb to match the laboratory reporting method.

NA: Not analyzed

NA: Not analyzed  
NE No allowable limit is established for the substance

NE: No allowable limit is established for the substance  
 ND: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

**Sample Results:**

**Sample Results:** Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)

ii: Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)



**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
42-14 19th Avenue  
Astoria, New York

[illegible]

As far as necessary, the NYDEC objection is, in proper, have been committed to ppb to match the laboratory reporting method.

N/A: Not analyzed

NE: No allowable limit is established for this substance

xx: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

**Sample Results:**

NOTE: Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703). Although the analyte was not detected, the laboratory monitoring limit for this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703).

...  $\mathbb{A}^1_{\mathbb{Q}} \times \mathbb{A}^1_{\mathbb{Q}} \rightarrow \mathbb{A}^1_{\mathbb{Q}}$  defined by  $(x, y) \mapsto x + y$  is a morphism of  $\mathbb{A}^1_{\mathbb{Q}}$ -schemes. The map  $\mathbb{A}^1_{\mathbb{Q}} \rightarrow \mathbb{A}^1_{\mathbb{Q}}$  defined by  $x \mapsto x^2$  is also a morphism of  $\mathbb{A}^1_{\mathbb{Q}}$ -schemes. The map  $\mathbb{A}^1_{\mathbb{Q}} \rightarrow \mathbb{A}^1_{\mathbb{Q}}$  defined by  $x \mapsto x^2 + 1$  is not a morphism of  $\mathbb{A}^1_{\mathbb{Q}}$ -schemes.





Table 2  
Summary of Groundwater Sample Analytical Data - VOCs  
42-14 19th Avenue  
Astoria, New York

[illegible]

| Total Xylenes                                                                                                       | ND | 3 | 118 | 3 | 3 |
|---------------------------------------------------------------------------------------------------------------------|----|---|-----|---|---|
| 15 were necessary for NTPC objectives in 1991. Have been converted to 100 in match the laboratory reporting method. |    |   |     |   |   |

NA: Not analyzed

N/A: Not analyzed  
 N/A: No allowable limit is established for the substance

NE: No allowable limit is established for the substance

### Sample Results:

**Sample Results:**  
a: Analyste concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)

a: Analyte concentration

c: Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NIOSH Occupational Safety and Health (OSHA) standards (0.1 mg/m<sup>3</sup>).

Table 2  
Summary of Groundwater Sample Analytical Data - VOCs  
42-14 18th Avenue  
Astoria, New York

| Analyte                            | MW-23R           |                  |                  |                  |                  |                 |                 |                 | MW-23S          | NYDEC<br>Groundwater<br>Standard<br>6 NYCRR<br>Part 703 |        |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|---------------------------------------------------------|--------|
|                                    | MW-23R           |                  |                  |                  |                  |                 |                 |                 |                 |                                                         |        |
|                                    | 2/6/04           | 5/17/04          | 7/28/04          | 1/10/05          | 4/27/2005        | 5/24/06         | 6/14/07         | 9/29/08         |                 |                                                         |        |
| Volatiles by SGLB (ug/L):          |                  |                  |                  |                  |                  |                 |                 |                 |                 |                                                         |        |
| Acetone                            | 12               | 4.9              | <20              | <20              | <20              | <5              | 9.3             | <5              | 15              | NE                                                      | 5      |
| Aryleneoxide                       | <25 <sup>a</sup> | <25 <sup>a</sup> | <25 <sup>a</sup> | <25 <sup>a</sup> | <25 <sup>a</sup> | <5              | <5              | <5              |                 |                                                         |        |
| Benzene                            | 2.2*             | 2.2*             | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5              | <5              | ND              |                                                         | 1      |
| Bromobenzene                       | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| Bromochlorobenzene                 | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | NE     |
| Bromodichlorobenzene               | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | NE     |
| Bromotrichlorobenzene              | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | NE     |
| Bromobenzonitrile                  | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | NE     |
| 2-Butanone (MEK)                   | <10              | <10              | <10              | <10              | <10              | <5              | <5              | <5              |                 |                                                         | 5      |
| tert-Butylbenzene                  | 0.38             | <5               | <5               | <5               | <5               | <5              | <5              | <5              | NA              |                                                         | 5      |
| tert-Butylbenzene                  | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| Carbon disulfide                   | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | NE     |
| Carbon tetrachloride               | 0.55             | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| Chlorobenzene                      | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| Chloroethane                       | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| Chloroform                         | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| Chloromethane                      | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| 2-Chlorotoluene                    | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| 4-Chlorotoluene                    | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| 1,2-Dibromo-3-chloropropane (DBCP) | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> |                                                         | 0.04   |
| 1,2-Dibromochloromethane           | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> |                                                         | 0.0006 |
| 1,2-Dibromomethane (EDB)           | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> |                                                         | 5      |
| Dibromomethane                     | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| 1,3-Dichlorobenzene                | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| 1,3-Dichlorobenzene                | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| 1,4-Dichlorobenzene                | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| Dichlorodifluoromethane            | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| 1,1-Dichloroethane                 | 0.52             | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | ND              |                                                         | 5      |
| 1,2-Dichloroethane                 | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 0.6    |
| 1,1,1-Trichloroethane              | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| 1,1,2-Trichloroethane              | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| trans-1,2-Dichloroethane           | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| 1,2-Dichloropropane                | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | ND              |                                                         | 1      |
| 1,3-Dichloropropane                | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| 2,2-Dichloropropane                | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| 1,1-Dichloropropene                | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              |                 |                                                         | 5      |
| cis-1,3-Dichloropropene            | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> |                                                         | 0.4    |
| trans-1,3-Dichloropropene          | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> |                                                         | 0.4    |
| 1,4-Difluorobenzene                | NA               | NA               | NA               | NA               | NA               | NA              | NA              | NA              | ND              |                                                         | NE     |
| Ethylbenzene                       | 0.22             | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| 4-Ethyltoluene                     | NA               | NA               | NA               | NA               | NA               | NA              | NA              | NA              | ND              |                                                         | NE     |
| Heptachlorodiolene                 | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> |                                                         | 0.5    |
| 2-Hexanone                         | <10              | <10              | <10              | <10              | <10              | <5              | <5              | <5              | 0.22            |                                                         | NE     |
| Isopropylbenzene                   | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| 4-Isopropyltoluene                 | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | NA              |                                                         | NE     |
| Methyl tert-butyl ether (MTBE)     | <10              | <10              | <10              | <10              | <10              | <5              | <5              | <5              | 4               |                                                         | NE     |
| 2-Methyl-2-pentanone (MIBK)        | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | ND              |                                                         | 5      |
| Methylene chloride                 | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | 1               |                                                         | 10     |
| Naphthalene                        | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | NA              |                                                         | 5      |
| o-Naphthalene                      | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | NA              |                                                         | 5      |
| p-Naphthalene                      | <5               | <5               | <5               | <5               | <5               | <5              | <5              | <5              | NA              |                                                         | 5      |
| Nonyl chloride                     | NA               | NA               | NA               | NA               | NA               | NA              | NA              | NA              | ND              |                                                         | 2      |
| Octyl chloride                     | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup>  | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> | <5 <sup>a</sup> |                                                         | 5      |
| Total Xylenes                      | 0.75             | <5               | <5               | <5               | <5               | <5              | <5              | <5              | <5              | <5                                                      | ND     |

Where necessary, the NYDEC objectives in (ppb) have been converted to (ug/L) to match the laboratory reporting method.

NA: Not analyzed

NE: No enforceable limit is established for the substance

<5: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

Sample Result

c: Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NYDEC Groundwater Quality Standards (6 NYCRR Part 703)





| Sample / Date | Analyte                    | 25004 | 51704 | 72604 | 117003 | 42706 | 52406 | 61407 | 92608 | NYDEC Groundwater Standard | NYDEC Part 700 |
|---------------|----------------------------|-------|-------|-------|--------|-------|-------|-------|-------|----------------------------|----------------|
|               | Acetone                    | 38    | 4.2   | <20   | <20    | <20   | <5    | <5    | <13   | NE                         |                |
|               | Methyl Isobutyl            | <50*  | <25*  | <25*  | <25*   | <25*  | <1    | <1    | <10*  | 5                          |                |
|               | Benzene                    | 53*   | 33*   | 36*   | 41*    | 11*   | 29*   | 27*   | 18*   | 1                          |                |
|               | Bromobenzene               | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | Bromochloromethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | Bromodichloromethane       | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <20   | 5                          |                |
|               | Bromoform                  | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <20   | 5                          |                |
|               | Bromonethane               | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <20   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromobenzene         | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromochloromethane   | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromodichloromethane | <10*  | <5    | <5    | <5     | <5    | <1    | <1    | <21   | 5                          |                |
|               | 1,2-Dibromomethane         | <10*  | <5    | <5    | <5     | <5    |       |       |       |                            |                |

NA: Not analyzed  
 NYSDEC: No allowable limit is established for the substance  
 ND: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)  
 Sample Results:  
 NA: Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)  
 ND: Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NYSDEC Groundwater

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
42-14 19th Avenue  
Astoria, New York

| Sample / Plant          | IRMS-CT              |       |       |         |         |          |         |         |       |        | NORMED<br>CYCLO<br>Standard |         |        |        |
|-------------------------|----------------------|-------|-------|---------|---------|----------|---------|---------|-------|--------|-----------------------------|---------|--------|--------|
|                         | 6 INYCAM<br>Part 703 |       |       |         |         |          |         |         |       |        |                             |         |        |        |
|                         | 24594                | 51794 | 37494 | 4272666 | 8172666 | 11042666 | 3779464 | 9242664 | 24697 | 614267 |                             | 1614267 | 614268 | 374268 |
| Acetone                 | <200                 | 140   | <100  | <120    | <200    | <200     | <200    | <100    | <50   | <20    | <20                         | <10     | <200   | <200   |
| Acrylonitrile           | <200                 | <200  | <200  | <120    | <200    | <200     | <200    | <100    | <50   | <20    | <20                         | <10     | <200   | <200   |
| Benzene                 | 190*                 | 110*  | 140*  | 140*    | 150*    | 150*     | 150*    | 140*    | 140*  | 140*   | 140*                        | 140*    | 140*   | 140*   |
| Bromobenzene            | 94*                  | 11*   | 48*   | 48*     | 48*     | 48*      | 48*     | 48*     | 48*   | 48*    | 48*                         | 48*     | 48*    | 48*    |
| Bromochloromethane      | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromodichloromethane    | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromofluoromethane      | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrobenzene       | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <5     | <5                          | <10     | <100   | <100   |
| Bromonitrofluorobenzene | <50                  | <100  | <40   | <50     | <50     | <50      | <50     | <100    | <10   | <      |                             |         |        |        |

When working on STATIC, even at its best, I have been tempted to ask myself the question: "Is there a method

MA Not on file

NA Not analyzed

NIJ. No allowable limit is established for the substance.

e.g. business analysis consultation not derived at or above specified laboratory quantities limit (x)

### Simple Results

<sup>2</sup> Arsenite concentration in this sample exceeds NYSDDEC Groundwater Quality Standards (6 NYCRR Part 203).

a. Analyte concentration in this sample exceeds NYSDDEC Groundwater Quality Standards (6 NYCRR Part 103).

c Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NYSDEC Group 1.

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
**42-14 19th Avenue**  
**Astoria, New York**

[illegible]

| Total Victims                                                                | 338 | 373 | 399 |
|------------------------------------------------------------------------------|-----|-----|-----|
| Approximately 60% have been reported to the FBI as missing.                  |     |     |     |
| Approximately 40% are still being sought by the laboratory reporting method. |     |     |     |

NA: Not analyzed

NA: Not analyzed  
NE: No allowable limit is established for the substance

NE: No allowable input is established for the substance.

Sample Results:

**Sample Result:** Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYSPR Part 101)

**Keywords:** Analytic concepts

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
**42-14 19th Avenue**  
**Astoria, New York**

| Sample / Date | Analysis             | MW-20D                     |         |         |         |         | NYEBCAC<br>Concentration<br>for<br>Standard | 6" NYEBCAC<br>Part 76D |
|---------------|----------------------|----------------------------|---------|---------|---------|---------|---------------------------------------------|------------------------|
|               |                      | 9/16/04                    | 1/19/05 | 4/27/05 | 5/24/06 | 6/14/07 |                                             |                        |
|               |                      | Volatiles by S201B (ug/L): |         |         |         |         |                                             |                        |
|               | Acetone              | <20                        | <20     | <20     | <3      | <3      | <3                                          | NE                     |
|               | Methyl acetate       | <25*                       | <25*    | <25*    | <1      | <1      | <3                                          | <3                     |
|               | Benzene              | 14*                        | <5      | <5      | <1      | <1      | <0.5                                        | 1                      |
|               | Bromobenzene         | <5                         | <5      | <5      | <1      | <1      | <2.5                                        | 5                      |
|               | Bromochloromethane   | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | Bromodichloromethane | <5                         | <5      | <5      | <1      | <1      | <2.5                                        | NE                     |
|               | Bromofluoromethane   | <5                         | <5      | <5      | <1      | <1      | <2                                          | 5                      |
|               | Bromofuran           | <5                         | <5      | <5      | <1      | <1      | <1                                          | 5                      |
|               | Bromonitroethane     | <5                         | <5      | <5      | <1      | <1      | <1                                          | 5                      |
|               | 1,2-Dibromobenzene   | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromobenzene   | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromobenzene   | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dichlorobenzene  | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dichlorobenzene  | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dichlorobenzene  | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dichloroethane   | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dichloroethane   | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dichloroethane   | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,4-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,2-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |
|               | 1,3-Dibromoethane    | <5                         | <5      | <5      | <1      | <1      | <0.5                                        | 5                      |

When necessary, the SYNETC director, in person, has been contacted to get to match the laboratory reporting number.

NA: Not analyzed

NOTE: No allowable limit is established for the substance

ND: No allowable limit is established for the substance

**Sample Results:**

**Sample Results:** Analyte concentration in this sample exceeds NYSDDEC Groundwater Quality Standards (6 NYCRR Part 703)

a. Although the analyte was not detected, the laboratory certification limit for this sample exceeds NYDEC Greenhouse Gas Quality Standards (6 NYCRR Part 703).

| Sample / Data        | MW-258                   |        |        |        |        |        |        |        |        |    | NYSDEC<br>Compliance<br>Standard | 4-NVCR<br>Part 700 |
|----------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----|----------------------------------|--------------------|
|                      | 717404                   | 729404 | 971604 | 107306 | 427306 | 427306 | 524006 | 674407 | 929308 |    |                                  |                    |
|                      | Valuates by EL608 (eq/L) |        |        |        | (Dug)  |        |        |        |        |    |                                  |                    |
| Acetone              | <20                      | <20    | <20    | <20    | <20    | <20    | <3     | 11     | <3     | NE |                                  |                    |
| Aryl isocyanate      | <37                      | <37    | <37    | <37    | <37    | <37    | <4     | <4     | <3     | 3  |                                  |                    |
| Benzene              | 12*                      | 24*    | 18*    | 17*    | 18*    | 18*    | 8.5*   | 6.6*   | 1.9*   | 1  |                                  |                    |
| Bromobenzene         | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| Bromodichloromethane | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <3     | 3  |                                  |                    |
| Bromodichloromethane | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| Bromofluoromethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| Bromomethane         | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | NE |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     | <3     | <3     | <4     | <4     | <2.3   | 3  |                                  |                    |
| 1,2-Dibromomethane   | <3                       | <3     | <3     | <3     |        |        |        |        |        |    |                                  |                    |

**N/A:** Not analyzed  
**NE:** No allowable limit is established for the substance  
**ND:** Indication analyte concentration not detected at or above the detection limit  
**Sample Results:**  
**a:** Analyte concentration in this sample exceeds NYSDEC's maximum allowable concentration (MAC) for this substance. Although the analyte was not detected, the laboratory's detection limit is greater than the MAC.

| Sample / Date | Analyte               | MW-29D                   |        |        |        |        |        | NYSDC<br>Group/air<br>Standard |
|---------------|-----------------------|--------------------------|--------|--------|--------|--------|--------|--------------------------------|
|               |                       | Volatiles by E20B (u/L): |        |        |        |        |        |                                |
|               |                       | 91604                    | 113065 | 427065 | 524066 | 614107 | 929408 |                                |
|               |                       | <20                      | <20    | <20    | <5     | <5     | <5     | NE                             |
|               | Acetone               | <25*                     | <25*   | <25*   | <1     | <1     | <1     | <5                             |
|               | Acrylonitrile         | <5*                      | <5*    | <5*    | <5*    | 2.1*   | <5     | 5                              |
|               | Benzene               | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 1                              |
|               | Bromobenzene          | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromochloromethane    | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromodichloromethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromodibromomethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromodichloroethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromodibromoethane    | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromonitrobenzene     | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloromethane | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotrichloroethane  | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   | 5                              |
|               | Bromotribromoethane   | <5*                      | <5*    | <5*    | <1     | <1     | <2.5   |                                |

| Total Xylenes                                                                                         | 3 | 3 | 3 | 3 |
|-------------------------------------------------------------------------------------------------------|---|---|---|---|
| the NYSDEC objectives, in turn, have been converted to job to match the laboratory/monitoring method. |   |   |   |   |

NA: Not analyzed

NA: Not analyzed  
 NE: No allowable limit is established for the substance

NE: No allowable limit is established for the substance  
 X: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (X)

**Sample Results:**

a: Analytic concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703)

Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703).

$\mathcal{F}$  is a family of functions  $f: \mathcal{X} \rightarrow \mathcal{Y}$  and  $\mathcal{X}$  is a set. The VC dimension of  $\mathcal{F}$  is the maximum number of points in  $\mathcal{X}$  that can be shattered by  $\mathcal{F}$ .

**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
42-14 19th Avenue  
Astoria, New York

[illegible]

NA: Not analyzed  
 ND: No detectable limit is established for the substance  
 EX: Indicates analyte concentration not detected at or above  
 Sample Result:  
 NA: Analyte concentration in this sample exceeds NYSDHE  
 ND: Although the analyte was not detected, the laboratory

11: Analyte concentration in this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703). Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds NYSDEC Groundwater Quality Standards (6 NYCRR Part 703).



**Table 2**  
**Summary of Groundwater Sample Analytical Data - VOCs**  
**42-14 19th Avenue**  
**Astoria, New York**

[illegible]

Where necessary, the NYSDJC objectives, in 2005, have been converted to goals to match the laboratory reporting method.

NA: Not included

NA: Not analyzed  
NT: No therapeutic benefit is established for the substance

—X: Indicator analyte concentration not detected at or above specified laboratory quantitation limit (x)

**Sample Results:**

a: Analyte concentration in this sample exceeds NYSDDEC Groundwater Quality Standards (6 NYCRR Part 703)





[illegible]

From November, the NYSOC's activities at home have been turned to job to match the laboratory reporting method

100

NE No allowable limit is established for the substance

(c) Individual assay concentrations not detected at or above specified laboratory quantitation limit (x)

### Sample Results

Analysis conducted on this sample exceeds NYSDOT Groundwater Quality Standards (6 NYCRR Part 201)

Although the end

**Table 3**  
**Summary of Soil Vapor Screening Data**  
**Triumvirate Environmental, Inc.**  
**42-14 19th Avenue**  
**Astoria, New York**

| Soil Gas Monitoring Point | Screening Date | Concentration (ppmv) | Vacuum (inches water) | Comments                           |
|---------------------------|----------------|----------------------|-----------------------|------------------------------------|
| SGP-1                     | 9/30/2008      | NM                   | NM                    | Vicinity covered by loaded pallets |
| SGP-2                     | 9/30/2008      | 8.5                  | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.01                  |                                    |
| SGP-3                     | 9/30/2008      | 2.6                  | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.02                  |                                    |
| SGP-4                     | 9/30/2008      | 16.7                 | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.02                  |                                    |
| SGP-5                     | 9/30/2008      | 3.3                  | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.02                  |                                    |
| SGP-6                     | 9/30/2008      | 0.0                  | 0.01                  |                                    |
|                           | 2/4/2009       | NM                   | 0.01                  |                                    |
| SGP-7                     | 9/30/2008      | 0.0                  | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.00                  |                                    |
| SGP-8                     | 9/30/2008      | 1.8                  | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.02                  |                                    |
| SGP-9                     | 9/30/2008      | 0.4                  | 0.10                  |                                    |
|                           | 2/4/2009       | NM                   | 0.00                  |                                    |
| SGP-10                    | 9/30/2008      | 1.4                  | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.04                  |                                    |
| SGP-11                    | 9/30/2008      | 81.2                 | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.03                  |                                    |
| SGP-12                    | 9/30/2008      | 44.8                 | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.02                  |                                    |
| SGP-13                    | 9/30/2008      | 60.2                 | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.04                  |                                    |
| SGP-14                    | 9/30/2008      | 56.7                 | 0.00                  |                                    |
| SGP-15                    | 9/30/2008      | 43.5                 | 0.00                  |                                    |
| SGP-16                    | 9/30/2008      | 8.3                  | 0.01                  |                                    |
| SGP-17                    | 9/30/2008      | 25.3                 | 0.00                  |                                    |
|                           | 2/4/2009       | NM                   | 0.00                  |                                    |
| SGP-18                    | 9/30/2008      | 42.3                 | 0.00                  |                                    |
| SGP-19                    | 9/30/2008      | 28.3                 | 0.01                  |                                    |
| SGP-20                    | Destroyed      |                      |                       |                                    |
| SGP-21                    | Destroyed      |                      |                       |                                    |

**Notes:**

NM= Not Measured

ppmv- Parts Per Million by Volume

**Table 4**  
**Summary of Soil Vapor Analytical Results**  
**Triumvirate Environmental, Inc.**  
**42-14 19th Avenue**  
**Astoria, New York**

| Analyte / Date            | NYS DOH<br>Ont. 1<br>ppmv | SCP-1    |          |          | SCP-2    |          |          | SCP-3    |          |          |
|---------------------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                           |                           | 3/25/06  | 9/28/06  | 4/10/08  | 3/25/06  | 9/28/06  | 4/10/08  | 3/25/06  | 9/28/06  | 4/10/08  |
| Freon 12                  |                           | N/A      | N/A      | <0.00041 | <0.00041 | <0.00041 | <0.00041 | <0.00041 | <0.00041 | <0.00041 |
| Chloromethane             | 1.521                     | <0.00079 | <0.00079 | <0.00079 | 0.00095  | <0.00079 | <0.00079 | <0.00079 | <0.00079 | <0.00079 |
| Freon 114                 | NA                        | <0.00082 | <0.00082 | <0.00082 | <0.00082 | <0.00082 | <0.00082 | <0.00082 | <0.00082 | <0.00082 |
| Vinyl chloride            | <0.096                    | <0.00097 | <0.00097 | <0.00097 | <0.00097 | <0.00097 | <0.00097 | <0.00097 | <0.00097 | <0.00097 |
| Freon 11                  | NA                        | N/A      | <0.00056 | <0.00056 | 0.00128  | 0.00409  | 0.00309  | <0.00056 | 0.00082  | 0.00141  |
| Chloroethane              | <0.93                     | <0.00113 | <0.00113 | <0.00113 | <0.00113 | <0.00113 | <0.00113 | <0.00113 | <0.00113 | <0.00113 |
| 1,1-Dichloroethene        | <0.62                     | 0.00136  | <0.00061 | 0.00107  | 0.00237  | 0.00126  | 0.00265  | <0.00061 | <0.00061 | <0.00061 |
| Freon 113                 | NA                        | 0.00071  | <0.00061 | <0.00061 | 0.00917  | 0.03     | 0.00753  | 0.0039   | 0.00524  | <0.00061 |
| cis-1,2-Dichloroethylene  | <0.62                     | 1.29     | 0.415    | 0.483    | 1.99     | 3.31     | 1.74     | 1.04     | 0.921    | 0.342    |
| 1,1-Dichloroethane        | <0.62                     | 0.0775   | 0.0801   | 0.0482   | 0.324    | 0.656    | 0.252    | 0.0932   | 0.0838   | 0.0319   |
| Chloroform                | 0.08                      | 0.0255   | 0.0233   | 0.0186   | 0.203    | 0.35     | 0.144    | 0.0727   | 0.125    | 0.0891   |
| 1,1,1-Trichloroethane     | 0.108                     | 0.136    | 0.0596   | 0.0289   | 0.576    | 0.554    | 0.206    | 0.382    | 0.091    | 0.0332   |
| 1,2-Dichloroethane        | <0.61                     | <0.00045 | 0.00587  | <0.00045 | 0.0431   | 0.00276  | 0.00281  | 0.0018   | 0.00196  | 0.00163  |
| Benzene                   | 1.321                     | 0.00075  | <0.00086 | <0.00086 | 0.00081  | 0.00079  | <0.00086 | 0.0007   | <0.00086 | <0.00086 |
| Carbon Tetrachloride      | 0.125                     | <0.00065 | <0.00065 | <0.00065 | <0.00065 | <0.00065 | <0.00065 | <0.00065 | <0.00065 | <0.00065 |
| 1,2-Dichloropropane       | <0.61                     | 0.00149  | <0.00038 | <0.00038 | 0.00304  | <0.00038 | <0.00038 | 0.00224  | <0.00038 | <0.00038 |
| Trichloroethylene         | 0.055                     | 0.318    | 0.319    | 0.171    | 1.34     | 4.22     | 0.896    | 0.909    | 2.05     | 0.314    |
| trans-1,3-Dichloropropene | <0.054                    | <0.00035 | <0.00035 | NA       | <0.00035 | <0.00035 | NA       | <0.00035 | <0.00035 | NA       |
| 1,1,2-Trichloroethane     | 0.108                     | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Toluene                   | 1.537                     | <0.00095 | <0.00095 | <0.00095 | <0.00095 | <0.00095 | <0.00095 | 0.00105  | <0.00095 | <0.00095 |
| Tetrachloroethylene       | 0.116                     | 0.299    | 0.376    | 0.237    | 1.55     | 5.06     | 1.34     | 0.781    | 1.33     | 0.284    |
| Chlorobenzene             | <0.053                    | <0.00044 | <0.00044 | NA       | <0.00044 | <0.00044 | NA       | <0.00044 | <0.00044 | NA       |
| Ethylbenzene              | 0.249                     | <0.00054 | <0.00054 | <0.00054 | <0.00054 | <0.00054 | NA       | 0.00754  | <0.00054 | NA       |
| m,p-Xylene                | 0.384                     | 0.00082  | <0.00038 | NA       | <0.00038 | <0.00038 | NA       | <0.00038 | <0.00038 | NA       |
| Styrene                   | 0.123                     | <0.00048 | <0.00048 | NA       | <0.00048 | <0.00048 | NA       | 0.0245   | <0.00048 | NA       |
| 1,1,2,2-Tetrachloroethane | 0.096                     | <0.00051 | <0.00051 | <0.00051 | <0.00051 | 0.00309  | <0.00051 | <0.00051 | <0.00051 | <0.00051 |
| o-Xylene                  | 0.384                     | <0.00046 | <0.00046 | NA       | <0.00046 | <0.00046 | NA       | 0.00096  | <0.00046 | NA       |
| 1,3,5-Trimethylbenzene    | 0.14                      | <0.00064 | <0.00064 | <0.00064 | <0.00064 | <0.00064 | <0.00064 | <0.00064 | <0.00064 | <0.00064 |
| 1,2,4-Trimethylbenzene    | 0.339                     | 0.00184  | <0.00085 | NA       | <0.00085 | <0.00085 | NA       | <0.00085 | <0.00085 | NA       |
| 1,3-Dichlorobenzene       | 0.082                     | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 |
| 1,4-Dichlorobenzene       | 0.082                     | <0.00081 | <0.00081 | NA       | <0.00081 | <0.00081 | NA       | <0.00081 | <0.00081 | NA       |
| 1,2-Dichlorobenzene       | 0.098                     | <0.0008  | <0.0008  | <0.0008  | <0.0008  | <0.0008  | <0.0008  | <0.0008  | <0.0008  | <0.0008  |
| Methyl tert-butyl ether   | NA                        | NA       | NA       | NA       | NA       | NA       | NA       | NA       | NA       | NA       |
| Cyclohexane               | 0.371                     | NR       | <0.005   | <0.0025  | NR       | <0.005   | <0.0025  | NR       | <0.005   | <0.0025  |

NYS DOH Guidance for Evaluation Soil Vapor Intrusion in the State of New York, dated Oct. '06, Table C1.

All concentrations in parts per million.

ppm - parts per million

<x> Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NA - Not Reported

Table 4  
Summary of Soil Vapor Analytical Results  
Triumvirate Environmental, Inc.  
42-14 19th Avenue  
Astoria, New York

| Analyte / Date            | NYS DOH<br>Out. 1<br>ppmv | SCP-4    |           |          |          | SCP-5     |          |          |           | SCP-6    |          |           |          |          |          |          |          |           |          |
|---------------------------|---------------------------|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|----------|
|                           |                           | 3/26/04  | 9/28/06   | 9/5/07   | 10/18/07 | 4/1/08    | 2/4/09   | 3/26/04  | 9/28/06   | 9/5/07   | 10/18/07 | 4/1/08    | 3/26/04  | 5/4/04   | 6/14/04  | 9/28/06  | 4/1/08   | 9/30/08   | 2/4/09   |
| Freon 12                  |                           | <0.00041 | <0.00041  | NA       | NA       | <0.00041  | NA       | 0.0143   | <0.00041  | NA       | NA       | <0.00041  | 0.0129   | <0.00041 | 0.0459   | <0.00041 | 0.00282  | NA        | NA       |
| Chloromethane             | 1.521                     | 0.00734  | <0.00079  | <0.00079 | <0.00079 | <0.00079  | 0.00208  | 0.0024   | <0.00079  | <0.00082 | <0.00082 | <0.00079  | 0.00214  | <0.00079 | <0.00079 | <0.00079 | <0.00079 | <0.005    | <0.0002  |
| Freon 114                 | NA                        | 0.0016   | 0.00471   | <0.00082 | <0.00082 | <0.00082  | <0.00082 | <0.00082 | <0.00082  | <0.00082 | <0.00082 | <0.00082  | <0.00082 | <0.00082 | <0.00082 | <0.00082 | <0.00082 | <0.005    | <0.0002  |
| Vinyl chloride            | <0.06                     | <0.00097 | <0.00097  | <0.00097 | 0.00127  | <0.00097  | 0.00151  | 0.0171   | <0.00097  | 0.02989  | 0.00076  | 0.0127    | 0.0207   | 0.00431  | <0.00097 | 0.0198   | 0.0116   | <0.005    | 0.00108  |
| Freon 11                  | NA                        | 0.00262  | 0.00103   | 0.0017   | 0.00078  | <0.00056  | NA       | 0.0122   | 0.00603   | 0.00223  | <0.00113 | <0.00056  | 0.0107   | 0.0136   | <0.00056 | 0.00127  | 0.00478  | NA        | NA       |
| Chloroethane              | <0.93                     | <0.00113 | <0.00113  | <0.00113 | <0.00113 | <0.00113  | 0.00022  | <0.00113 | 0.00118   | 0.04431  | 0.00345  | <0.00113  | <0.00113 | 0.00162  | <0.00113 | <0.00113 | 0.00215  | <0.005    | <0.0002  |
| 1,1-Dichloroethene        | <0.62                     | 0.00476  | 0.00083   | 0.00186  | 0.00068  | <0.00061  | <0.0002  | 0.0119   | 0.0154    | 1.47000  | 0.00749  | 0.0118    | 0.0108   | 0.00711  | <0.0061  | 0.00373  | 0.00408  | <0.005    | 0.000302 |
| Freon 113                 | NA                        | 0.718    | 0.0955    | 0.06364  | 0.00862  | 0.00365   | 0.00272  | 0.108    | 2.35      | 3.57000  | 1.38000  | 0.0021    | 0.0845   | 0.0593   | 0.0751   | 0.0498   | 0.00789  | <0.005    | 0.00247  |
| cis-1,2-Dichloroethylene  | <0.62                     | 1.31     | 1.39      | 3.21     | 1.37     | 1.02      | 0.954    | 0.829    | 2.38      | 0.94000  | 0.06907  | 0.824     | 0.758    | 1.2      | 0.659    | <0.004   | 0.238    | 0.172     | 0.037    |
| 1,1-Dichloroethane        | <0.62                     | 0.191    | 0.088     | 0.278    | 0.08033  | 0.05      | 0.0134   | 0.166    | 0.568     | 1.16000  | 0.22100  | 0.103     | 0.261    | 0.48     | 0.193    | 0.555    | 0.12     | 0.061     | 0.0038   |
| Chloroform                | 0.08                      | 0.156    | 0.153     | 0.35     | 0.119    | 0.114     | 0.0306   | 0.196    | 0.756     | 0.80700  | 0.04170  | 0.104     | 0.359    | 0.903    | 0.379    | 0.159    | 0.178    | 0.122     | 0.0162   |
| 1,1,1-Trichloroethane     | 0.108                     | 0.379    | 0.104     | 0.211    | 0.7783   | 0.0424    | 0.0154   | 0.316    | 0.392     | 0.03224  | 0.00868  | 0.0505    | 0.389    | 2.6      | 2.06     | 0.319    | 0.0686   | 0.0218    | 0.0112   |
| 1,2-Dichloroethane        | <0.61                     | 0.0645   | 0.00166   | 0.00337  | 0.00142  | 0.00184   | 0.000329 | 0.0107   | 0.0184    | <0.00039 | <0.00039 | 0.0177    | 0.00903  | 0.00773  | <0.0045  | 0.0513   | 0.00226  | <0.005    | <0.0002  |
| Benzene                   | 1.321                     | 0.023    | <0.000386 | <0.00039 | <0.00039 | <0.000386 | 0.000331 | 0.00337  | <0.000386 | <0.00039 | <0.00039 | <0.000386 | 0.00248  | 0.00191  | <0.00386 | 0.0067   | 0.00382  | <0.000386 | <0.005   |
| Carbon Tetrachloride      | 0.125                     | 0.00268  | <0.00065  | 0.00122  | 0.00078  | <0.00065  | <0.0002  | <0.00065 | 0.00179   | 0.00308  | <0.00065 | <0.00065  | <0.00065 | 0.00084  | <0.0065  | <0.00065 | 0.00117  | <0.005    | <0.0002  |
| 1,2-Dichloropropane       | <0.61                     | 0.0026   | <0.00038  | <0.00038 | <0.00038 | <0.00038  | <0.0002  | 0.00285  | 3.79      | <0.00038 | <0.00038 | <0.00038  | 0.00248  | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.005    | <0.0002  |
| Trichloroethylene         | 0.055                     | 0.899    | 1.71      | 3.14     | 1.11     | 0.415     | 0.402    | 0.714    | <0.00034  | 4.77     | 1.33     | 0.335     | 0.927    | 3.04     | 2.26     | 2.2      | 1.53     | 0.0765    | 0.074    |
| trans-1,3-Dichloropropene | <0.054                    | <0.00035 | <0.00035  | NA       | NA       | NA        | <0.0002  | <0.00035 | <0.00035  | NA       | NA       | NA        | <0.00035 | <0.00035 | <0.0035  | <0.0035  | NA       | <0.005    | <0.0002  |
| 1,1,2-Trichloroethane     | 0.108                     | 0.00083  | 0.00156   | 0.00258  | <0.00040 |           | 0.000297 | 0.00078  | <0.00040  | 0.00408  | <0.00040 | <0.00040  | 0.00072  | 0.00174  | <0.004   | 0.00157  | 0.00103  | <0.005    | <0.0002  |
| Toluene                   | 1.537                     | 0.024    | <0.00095  | NA       | NA       | NA        | 0.000567 | 0.00628  | <0.00095  | NA       | NA       | <0.00095  | 0.00654  | 0.00131  | <0.0095  | <0.0095  | <0.00095 | 0.00964   | 0.000717 |
| Tetrachloroethylene       | 0.116                     | 1.59     | 2.02      | 2.79     | 1.28     |           | 0.402    | 1.09     | 3.05      | 3.03     | 1.13     | 0.339     | 1.02     | 2.4      | 1.19     | 1.19     | <0.0042  | 0.0799    | 1.31     |
| Chlorobenzene             | <0.053                    | <0.00044 | <0.00044  | NA       | NA       | NA        | <0.0002  | <0.00044 | <0.00044  | NA       | NA       | NA        | <0.00044 | <0.00044 | <0.0044  | <0.0044  | NA       | <0.005    | <0.0002  |
| Ethylbenzene              | 0.249                     | 0.00149  | <0.00054  | NA       | NA       | NA        | <0.0002  | 0.00172  | <0.00054  | NA       | NA       | NA        | 0.0015   | <0.00054 | <0.0054  | <0.0054  | NA       | 0.0064    | <0.0002  |
| m,p-Xylene                | 0.384                     | 0.0051   | <0.00038  | NA       | NA       | NA        | <0.0004  | 0.00681  | <0.00038  | NA       | NA       | NA        | 0.00546  | 0.00168  | <0.0038  | <0.0038  | NA       | 0.0168    | <0.0004  |
| Styrene                   | 0.123                     | <0.00048 | <0.00048  | NA       | NA       | NA        | <0.0002  | <0.00048 | <0.00048  | NA       | NA       | NA        | <0.00048 | <0.00048 | <0.0048  | <0.0048  | NA       | <0.005    | <0.0002  |
| 1,1,2,2-Tetrachloroethane | 0.036                     | <0.00051 | 0.00292   | <0.00051 | <0.00051 | <0.00051  | <0.0002  | <0.00051 | <0.00051  | <0.00051 | <0.00051 | <0.00051  | <0.00051 | <0.00051 | <0.0051  | <0.0051  | <0.00051 | <0.005    | <0.0002  |
| o-Xylene                  | 0.384                     | 0.00185  | <0.00046  | NA       | NA       | NA        | <0.0002  | 0.00234  | <0.00046  | NA       | NA       | NA        | 0.00102  | 0.00299  | <0.0051  | <0.0051  | <0.00051 | <0.005    | <0.0002  |
| 1,3,5-Trimethylbenzene    | 0.14                      | 0.00246  | 0.00065   | <0.00064 | <0.00064 | <0.00064  | <0.0002  | 0.00117  | 0.00206   | <0.00064 | <0.00064 | <0.00064  | 0.00102  | 0.00299  | <0.0051  | <0.0051  | <0.00051 | <0.005    | <0.0002  |
| 1,2,4-Trimethylbenzene    | 0.339                     | 0.00392  | <0.00085  | NA       | NA       | NA        | <0.0002  | 0.0118   | <0.00085  | NA       | NA       | NA        | 0.101    | 0.00369  | <0.0085  | <0.0085  | NA       | <0.005    | <0.0002  |
| 1,3-Dichlorobenzene       | 0.082                     | <0.00078 | 0.0016    | <0.00078 | <0.00078 | <0.00078  | <0.0002  | <0.00078 | 0.0084    | <0.00078 | <0.00078 | <0.00078  | <0.00078 | 0.00101  | <0.0078  | 0.00282  | <0.00078 | <0.005    | <0.0002  |
| 1,4-Dichlorobenzene       | 0.082                     | <0.00081 | <0.00081  | NA       | NA       | NA        | <0.0002  | <0.00081 | <0.00081  | NA       | NA       | NA        | <0.00081 | 0.00224  | <0.0081  | <0.0081  | NA       | <0.005    | <0.0002  |
| 1,2-Dichlorobenzene       | 0.098                     | <0.0008  | <0.0008   | <0.0008  | <0.0008  | <0.0008   | <0.0002  | <0.0008  | <0.0008   | <0.0008  | <0.0008  | <0.0008   | <0.0008  | <0.0008  | <0.008   | <0.008   | <0.008   | <0.005    | <0.0002  |
| Methyl tert-butyl ether   | NA                        | NA       | NA        | <0.0025  | <0.0025  | NA        | <0.0002  | NA       | NA        | NA       | <0.0025  | NA        | NA       | NA       | NA       | NA       | NA       | NA        | <0.0002  |
| Cyclohexane               | 0.371                     | NA       | 0.00616   | <0.0025  | <0.0025  | <0.0025   | 0.00278  | NA       | 0.0289    | <0.0025  | <0.0025  | <0.0025   | NA       | NA       | NA       | 0.00173  | <0.0025  | <0.005    | 0.000371 |

NYS DOH Guidance for Evaluation Soil V:

All concentrations in parts per million.

ppm - parts per million

<x> Indicates analyte concentration not det

NA - Not Reported

**Table 4**  
**Summary of Soil Vapor Analytical Results**  
**Triumvirate Environmental, Inc.**  
**42-14 19th Avenue**  
**Astoria, New York**

| Analyte / Date            | NYS DOH<br>Out. 1<br>ppmv | SGP-7    |          |          |          | SGP-8    |         | SGP-9   |          | SGP-10  | SGP-11  |          |         |         | SGP-12   |          | SGP-13   |          |          |
|---------------------------|---------------------------|----------|----------|----------|----------|----------|---------|---------|----------|---------|---------|----------|---------|---------|----------|----------|----------|----------|----------|
|                           |                           | 3/26/04  | 9/28/06  | 9/28/06* | 4/10/08  | 3/26/04  | 9/10/08 | 3/26/04 | 2/4/09   | 3/26/04 | 5/4/04  | 6/14/04  | 9/30/08 | 2/4/09  | 5/4/04   | 6/14/04  | 2/4/09   | 5/4/04   | 6/14/04  |
| Freon 12                  | NA                        | <0.0041  | <0.0041  | <0.0041  | 0.0016   | <0.0041  | NA      | <0.0041 | NA       | <0.0041 | <0.0041 | <0.0041  | NA      | NA      | 0.0074   | NA       | <0.0041  | <0.0041  | <0.0041  |
| Chloromethane             | 1.521                     | <0.0079  | 0.00186  | <0.0079  | <0.0079  | 0.00266  | <0.005  | <0.0079 | <0.002   | <0.0079 | <0.0079 | <0.0079  | <0.0079 | <0.002  | <0.0079  | <0.0079  | <0.002   | <0.0079  | <0.0079  |
| Freon 114                 | NA                        | <0.0082  | <0.0082  | <0.0082  | <0.0082  | <0.0082  | <0.0082 | <0.0082 | <0.0082  | <0.0082 | <0.0082 | <0.0082  | <0.0082 | <0.0082 | <0.0082  | <0.0082  | <0.0082  | <0.0082  | <0.0082  |
| Vinyl chloride            | <0.096                    | <0.0097  | 0.00425  | 0.00475  | 0.00149  | 0.0067   | 0.00603 | 0.0045  | 0.00125  | 0.00734 | 0.0522  | 0.0591   | 0.0305  | 0.0598  | 0.00243  | <0.0097  | 0.00166  | <0.0097  | 0.0651   |
| Freon 11                  | NA                        | <0.0056  | 0.00224  | 0.00237  | 0.00316  | 0.0023   | NA      | <0.0056 | NA       | <0.0056 | <0.0056 | <0.0056  | NA      | NA      | <0.0056  | <0.0056  | NA       | <0.0056  | <0.0056  |
| Chloroethane              | <0.93                     | <0.00113 | <0.00113 | <0.00113 | <0.00113 | <0.00113 | <0.005  | 0.00132 | 0.000342 | 0.00142 | 0.0263  | <0.00113 | <0.0026 | <0.002  | <0.00113 | <0.00113 | <0.002   | <0.00113 | <0.00113 |
| 1,1-Dichloroethene        | <0.62                     | <0.0061  | 0.00085  | 0.00087  | 0.00132  | 0.00134  | <0.0034 | 0.00145 | 0.000305 | 0.00167 | 0.0998  | 0.0329   | <0.0026 | 0.00558 | 0.00254  | <0.0061  | 0.000884 | 0.0125   | 0.0351   |
| Freon 113                 | NA                        | 0.00475  | 0.00718  | 0.073    | 0.00363  | 0.0417   | <0.005  | 0.00197 | 0.000676 | 0.00194 | 0.0537  | 0.0214   | 0.0226  | 1.42    | 0.00095  | <0.0061  | 0.00037  | 0.0091   | 0.0273   |
| 1,2-Dichloroethane        | <0.62                     | 0.056    | 1.78     | 1.72     | 0.365    | 1.08     | 3.56    | 2.87    | 0.653    | 1.74    | 20.2    | 4.75     | 5.16    | 1.9     | 0.38     | 1.91     | 0.101    | <0.004   | 6.35     |
| 1,1-Dichloroethane        | <0.62                     | 0.00814  | 0.676    | 0.694    | 0.358    | 0.0346   | 0.205   | 0.0515  | 0.000061 | 0.0651  | 0.645   | 0.36     | 0.448   | 0.0912  | 0.0141   | 0.0571   | 0.00664  | 0.144    | 0.264    |
| Chloroform                | 0.08                      | 0.0347   | 0.265    | 0.254    | 0.0978   | 0.217    | 0.361   | 0.0241  | 0.0948   | 0.0311  | 0.0128  | 0.0342   | 0.044   | 0.0105  | <0.00049 | 0.0184   | 0.00369  | <0.0049  | <0.0049  |
| 1,1,1-Trichloroethane     | 0.108                     | 0.0451   | 0.0688   | 0.071    | 0.0129   | 0.303    | 0.0613  | 0.189   | 0.0156   | 0.303   | 6.46    | 3.65     | 0.682   | 0.2     | 0.264    | 0.164    | 0.0208   | 1.56     | 2.94     |
| 1,2-Dichloroethane        | <0.61                     | <0.0045  | 0.00245  | 0.0313   | 0.00213  | 0.00354  | <0.005  | 0.00231 | 0.000276 | 0.00254 | 0.00347 | <0.0045  | <0.0026 | <0.002  | <0.0045  | <0.0045  | 0.000493 | <0.0045  | <0.0045  |
| Benzene                   | 1.921                     | <0.00386 | <0.00386 | <0.00386 | <0.00386 | 0.00213  | <0.005  | 0.00296 | <0.002   | 0.0245  | 0.00666 | 0.0081   | <0.0026 | 0.00093 | <0.00386 | <0.00386 | 0.000223 | <0.00386 | <0.00386 |
| Carbon Tetrachloride      | 0.125                     | <0.0065  | <0.0065  | <0.0065  | <0.0065  | <0.0065  | <0.005  | <0.0065 | <0.002   | <0.0065 | <0.0065 | <0.0065  | <0.0026 | <0.002  | <0.0065  | <0.0065  | <0.002   | <0.0065  | <0.0065  |
| 1,2-Dichloropropane       | <0.61                     | <0.0038  | <0.0038  | <0.0038  | <0.0038  | <0.0038  | <0.005  | <0.0038 | 0.000317 | <0.0038 | <0.0038 | <0.0038  | <0.0026 | <0.002  | <0.0038  | <0.0038  | <0.002   | <0.0038  | <0.0038  |
| Trichloroethylene         | 0.055                     | 0.101    | 2.18     | 2.07     | 0.132    | 0.727    | 4.2     | 1.89    | 0.811    | 0.697   | 7.12    | 3.82     | 12.1    | 3.1     | 0.296    | 1.82     | 0.245    | 1.74     | 3.12     |
| trans-1,3-Dichloropropene | <0.054                    | <0.0035  | <0.0035  | <0.0035  | NA       | <0.0035  | <0.005  | <0.0035 | <0.002   | <0.0035 | <0.0035 | <0.0035  | <0.0026 | <0.002  | <0.0035  | <0.0035  | <0.002   | <0.0035  | <0.0035  |
| 1,1,2-Trichloroethane     | 0.108                     | <0.0040  | <0.0040  | 0.00107  | <0.0040  | <0.0040  | <0.005  | 0.00078 | <0.002   | 0.00078 | 0.00225 | <0.004   | <0.0026 | 0.00098 | <0.0040  | <0.004   | 0.000203 | <0.004   | <0.004   |
| Toluene                   | 1.537                     | <0.0095  | <0.0095  | <0.0095  | <0.0095  | 0.00159  | 0.00992 | 0.00111 | <0.002   | 0.00116 | 0.00693 | <0.0095  | <0.0026 | 0.00072 | 0.0304   | 0.00095  | 0.000426 | <0.0095  | <0.0095  |
| Tetrachloroethylene       | 0.116                     | 0.0656   | 1.02     | 0.94     | 0.104    | 0.375    | 5.76    | 2.67    | 0.948    | 2.67    | 33.6    | 4.02     | 32.7    | 8.31    | 0.863    | 2.25     | 0.495    | 5.28     | 3.44     |
| Chlorobenzene             | <0.053                    | <0.0044  | <0.0044  | <0.0044  | NA       | <0.0044  | <0.005  | 0.00071 | <0.002   | <0.0044 | 0.00153 | <0.0044  | <0.0026 | 0.00031 | <0.0044  | <0.0044  | <0.002   | <0.0044  | <0.0044  |
| Ethylbenzene              | 0.249                     | <0.0054  | <0.0054  | <0.0054  | NA       | <0.0054  | 0.00613 | <0.0054 | <0.002   | <0.0054 | 0.00168 | <0.0054  | <0.0026 | 0.00064 | 0.00138  | <0.0054  | 0.000371 | <0.0054  | <0.0054  |
| m,p-Xylene                | 0.384                     | <0.0038  | <0.0038  | <0.0038  | NA       | <0.0038  | 0.0166  | 0.00083 | <0.004   | 0.00089 | 0.0059  | <0.0038  | <0.0026 | 0.00277 | 0.00577  | <0.0038  | 0.00155  | <0.0038  | <0.0038  |
| Styrene                   | 0.123                     | <0.0048  | <0.0048  | <0.0048  | NA       | <0.0048  | <0.005  | <0.0048 | <0.002   | <0.0048 | <0.0048 | <0.0048  | <0.0026 | <0.002  | 0.00194  | <0.0048  | <0.002   | <0.0048  | <0.0048  |
| 1,1,2,2-Tetrachloroethane | 0.036                     | <0.0051  | <0.0051  | <0.0051  | <0.0051  | <0.0051  | <0.005  | <0.0051 | <0.002   | <0.0051 | <0.0051 | <0.0051  | <0.0026 | <0.002  | <0.0051  | <0.0051  | <0.002   | <0.0051  | 0.17     |
| o-Xylene                  | 0.384                     | <0.0046  | <0.0046  | <0.0046  | NA       | <0.0046  | 0.00852 | <0.0046 | <0.002   | <0.0046 | 0.0046  | <0.0046  | <0.0026 | 0.00061 | 0.00149  | <0.0046  | 0.000302 | <0.0046  | <0.0046  |
| 1,3,5-Trimethylbenzene    | 0.14                      | <0.0064  | 0.00157  | 0.00171  | <0.0064  | <0.0064  | <0.005  | <0.0064 | <0.002   | <0.0064 | 0.00406 | <0.0064  | <0.0026 | 0.00061 | 0.00147  | <0.0064  | <0.002   | <0.0064  | <0.0064  |
| 1,2,4-Trimethylbenzene    | 0.339                     | 0.00226  | <0.0085  | <0.0085  | NA       | 0.00138  | <0.005  | 0.00093 | <0.002   | 0.0016  | 0.00729 | <0.0085  | <0.0026 | <0.002  | 0.00475  | <0.0085  | <0.002   | <0.0085  | <0.0085  |
| 1,3-Dichlorobenzene       | 0.082                     | <0.0078  | <0.0078  | <0.0078  | <0.0078  | <0.0078  | <0.005  | <0.0078 | <0.002   | <0.0078 | <0.0078 | <0.0078  | <0.0026 | <0.002  | <0.0078  | <0.0078  | <0.002   | <0.0078  | <0.0078  |
| 1,4-Dichlorobenzene       | 0.082                     | <0.0081  | <0.0081  | <0.0081  | NA       | <0.0081  | <0.005  | <0.0081 | <0.002   | <0.0081 | <0.0078 | <0.0081  | <0.0026 | <0.002  | <0.0081  | <0.0081  | <0.002   | <0.0081  | <0.0081  |
| 1,2-Dichlorobenzene       | 0.098                     | <0.008   | <0.008   | <0.008   | <0.008   | <0.008   | <0.005  | <0.008  | <0.002   | <0.008  | <0.008  | <0.008   | <0.0026 | <0.002  | <0.008   | <0.008   | <0.002   | <0.008   | <0.008   |
| Methyl tert-butyl ether   | NA                        | NA       | NA       | NA       | NA       | NA       | <0.005  | NA      | <0.002   | NA      | NA      | NA       | <0.0026 | <0.002  | NA       | NA       | <0.002   | NA       | NA       |
| Cyclohexane               | 0.371                     | NR       | <0.005   | <0.005   | <0.0025  | NR       | <0.005  | NR      | 0.000806 | NR      | NR      | NR       | <0.0026 | 0.00739 | NR       | NR       | <0.002   | NR       | NR       |

NYS DOH Guidance for Evaluation Soil V<sub>i</sub>

All concentrations in parts per million.

ppm - parts per million

<x: Indicates analyte concentration not del

NA - Not Reported





Notes:

- O&M - Operation and Maintenance
- Up - Remediation System is Operational
- Down - An Alarm Condition has Shut Off
- Off - The Remediation System has Been S
- "H<sub>2</sub>O - pressure/vacuum in inches of wa
- PID - samples measured with a photoion
- ppmv - parts per million per unit volume
- NA - Not Applicable
- ND - Not Detected

Notes:  
O&M - Operation and Maintenance  
Up - Remediation System is Operational  
Down - An Alarm Condition has Shut Off  
The Remediation System has Been Shut Off  
H<sub>2</sub>O - pressure/vacuum in inches of water  
PID - samples measured with a photoionization  
ppmv - parts per million per unit volume  
NA - Not Applicable  
ND - Not Detected

## APPENDIX A

ALPHA ANALYTICAL

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com  
MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

**Client:** Triumvirate Environmental, Inc. **Laboratory Job Number:** L0901543  
**Address:** 61 Inner Belt Road **Date Received:** 06-FEB-2009  
Somerville, MA 02143 **Date Reported:** 13-FEB-2009  
**Attn:** Mr. Craig Sasse **Delivery Method:** Client  
**Project Number:** 750 **Site:** TEI-ASTORIA

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION              |
|---------------------|-----------------------|------------------------------|
| L0901543-01         | MW-25                 | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-02         | MW-12S                | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-03         | MW-12I                | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-04         | MW-3I                 | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-05         | MW-20S                | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-06         | MW-20D                | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-07         | MW-24                 | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-08         | MW-19I                | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-09         | MW-19S                | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-10         | MW-34                 | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-11         | MW-33                 | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-12         | MW-X                  | 42-14 19TH AVE., ASTORIA, NY |
| L0901543-13         | MW-27                 | 42-14 19TH AVE., ASTORIA, NY |

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:

*Michelle M. Morris*  
Technical Representative

**ALPHA ANALYTICAL  
NARRATIVE REPORT**

**Laboratory Job Number: L0901543**

---

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

**Sample Receipt**

The samples were received at the laboratory above the required temperature range. The samples were transported to the laboratory in a cooler but were not on ice. The client was notified of the exceedance, and all requested analyses were performed.

A sample identified as "MW-27" was received but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

**Volatile Organics**

The following samples have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0901543-02: 2x

L0901543-03: 1000x

L0901543-04: 10000x

L0901543-05: 50x

L0901543-06, -13: 40x

L0901543-07: 2.5x

L0901543-09: 10x

L0901543-10: 400x

L0901543-11: 5x

L0901543-12: 4x

L0901543-06 required re-analysis on a 500x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-01

MW-25

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 10:00

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL  | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|------|------------|-------|---------------|----|
|                                |        |       |      |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |      | 1          | 8260B | 0209 13:56 PD |    |
| 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                  | 1.0    | 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      | 0.71   | ug/l  | 0.50 |            |       |               |    |
| cis-1,3-Dichloropropene        | 0.53   | 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                        | 3.5    | 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                   | 18     | ug/l  | 1.0  |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 0.50 |            |       |               |    |
| trans-1,2-Dichloroethene       | 1.0    | 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  |            |       |               |    |
| Methyl tert butyl ether        | 29     | ug/l  | 1.0  |            |       |               |    |
| p/m-Xylene                     | ND     | ug/l  | 1.0  |            |       |               |    |
| o-Xylene                       | ND     | ug/l  | 1.0  |            |       |               |    |
| cis-1,2-Dichloroethene         | 0.62   | 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  |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-01  
MW-25

| PARAMETER                             | RESULT   | UNITS | RDL  | REF METHOD  | DATE  |               | ID |
|---------------------------------------|----------|-------|------|-------------|-------|---------------|----|
|                                       |          |       |      |             | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |      | 1           | 8260B | 0209 13:56 PD |    |
| 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  |             |       |               |    |
| 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  |             |       |               |    |
| Surrogate(s)                          | Recovery |       |      | QC Criteria |       |               |    |
| 1,2-Dichloroethane-d4                 | 88.0     | %     |      | 70-130      |       |               |    |
| Toluene-d8                            | 96.0     | %     |      | 70-130      |       |               |    |
| 4-Bromofluorobenzene                  | 95.0     | %     |      | 70-130      |       |               |    |
| Dibromofluoromethane                  | 95.0     | %     |      | 70-130      |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-02

MW-12S

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 10:25

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
|                                |        |       |     |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |     | 1          | 8260B | 0209 15:05 PD |    |
| Methylene chloride             | ND     | ug/l  | 10. |            |       |               |    |
| 1,1-Dichloroethane             | 2.5    | ug/l  | 1.5 |            |       |               |    |
| Chloroform                     | ND     | ug/l  | 1.5 |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 1.0 |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 3.5 |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 1.0 |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 1.5 |            |       |               |    |
| Tetrachloroethene              | ND     | ug/l  | 1.0 |            |       |               |    |
| Chlorobenzene                  | 100    | ug/l  | 1.0 |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 5.0 |            |       |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 1.0 |            |       |               |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 1.0 |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 1.0 |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 1.0 |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 1.0 |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 5.0 |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 4.0 |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 1.0 |            |       |               |    |
| Benzene                        | 56     | ug/l  | 1.0 |            |       |               |    |
| Toluene                        | 27     | ug/l  | 1.5 |            |       |               |    |
| Ethylbenzene                   | 29     | ug/l  | 1.0 |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 5.0 |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 2.0 |            |       |               |    |
| Vinyl chloride                 | ND     | ug/l  | 2.0 |            |       |               |    |
| Chloroethane                   | ND     | ug/l  | 2.0 |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 1.0 |            |       |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 1.5 |            |       |               |    |
| Trichloroethene                | ND     | ug/l  | 1.0 |            |       |               |    |
| 1,2-Dichlorobenzene            | 36     | ug/l  | 5.0 |            |       |               |    |
| 1,3-Dichlorobenzene            | 12     | ug/l  | 5.0 |            |       |               |    |
| 1,4-Dichlorobenzene            | 80     | ug/l  | 5.0 |            |       |               |    |
| Methyl tert butyl ether        | 23     | ug/l  | 2.0 |            |       |               |    |
| p/m-Xylene                     | 59     | ug/l  | 2.0 |            |       |               |    |
| o-Xylene                       | 46     | ug/l  | 2.0 |            |       |               |    |
| cis-1,2-Dichloroethene         | 1.4    | ug/l  | 1.0 |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 10. |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 10. |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 10. |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-02  
MW-12S

| PARAMETER                             | RESULT   | UNITS | RDL | REF METHOD  | DATE          |      | ID |
|---------------------------------------|----------|-------|-----|-------------|---------------|------|----|
|                                       |          |       |     |             | PREP          | ANAL |    |
| Volatile Organics by EPA 8260B cont'd |          |       |     | 1 8260B     | 0209 15:05 PD |      |    |
| Styrene                               | ND       | ug/l  | 2.0 |             |               |      |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 10. |             |               |      |    |
| Acetone                               | ND       | ug/l  | 10. |             |               |      |    |
| Carbon disulfide                      | ND       | ug/l  | 10. |             |               |      |    |
| 2-Butanone                            | ND       | ug/l  | 10. |             |               |      |    |
| Vinyl acetate                         | ND       | ug/l  | 10. |             |               |      |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 10. |             |               |      |    |
| 2-Hexanone                            | ND       | ug/l  | 10. |             |               |      |    |
| Bromochloromethane                    | ND       | ug/l  | 5.0 |             |               |      |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 5.0 |             |               |      |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 4.0 |             |               |      |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 5.0 |             |               |      |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 1.0 |             |               |      |    |
| Bromobenzene                          | ND       | ug/l  | 5.0 |             |               |      |    |
| n-Butylbenzene                        | 4.3      | ug/l  | 1.0 |             |               |      |    |
| sec-Butylbenzene                      | 2.8      | ug/l  | 1.0 |             |               |      |    |
| tert-Butylbenzene                     | ND       | ug/l  | 5.0 |             |               |      |    |
| o-Chlorotoluene                       | ND       | ug/l  | 5.0 |             |               |      |    |
| p-Chlorotoluene                       | ND       | ug/l  | 5.0 |             |               |      |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 5.0 |             |               |      |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 1.2 |             |               |      |    |
| Isopropylbenzene                      | 3.4      | ug/l  | 1.0 |             |               |      |    |
| p-Isopropyltoluene                    | 4.6      | ug/l  | 1.0 |             |               |      |    |
| Naphthalene                           | 15       | ug/l  | 5.0 |             |               |      |    |
| n-Propylbenzene                       | 6.9      | ug/l  | 1.0 |             |               |      |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 5.0 |             |               |      |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 5.0 |             |               |      |    |
| 1,3,5-Trimethylbenzene                | 20       | ug/l  | 5.0 |             |               |      |    |
| 1,2,4-Trimethylbenzene                | 40       | ug/l  | 5.0 |             |               |      |    |
| 1,4-Diethylbenzene                    | 17       | ug/l  | 4.0 |             |               |      |    |
| 4-Ethyltoluene                        | 26       | ug/l  | 4.0 |             |               |      |    |
| 1,2,4,5-Tetramethylbenzene            | 6.3      | ug/l  | 4.0 |             |               |      |    |
| Surrogate(s)                          | Recovery |       |     | QC Criteria |               |      |    |
| 1,2-Dichloroethane-d4                 | 83.0     | %     |     | 70-130      |               |      |    |
| Toluene-d8                            | 98.0     | %     |     | 70-130      |               |      |    |
| 4-Bromofluorobenzene                  | 96.0     | %     |     | 70-130      |               |      |    |
| Dibromofluoromethane                  | 93.0     | %     |     | 70-130      |               |      |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-03

MW-12I

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 10:50

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL  | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|------|------------|-------|---------------|----|
|                                |        |       |      |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |      | 1          | 8260B | 0209 15:41 PD |    |
| Methylene chloride             | ND     | ug/l  | 5000 |            |       |               |    |
| 1,1-Dichloroethane             | 1000   | ug/l  | 750  |            |       |               |    |
| Chloroform                     | 1500   | ug/l  | 750  |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 500  |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 1800 |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 500  |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 750  |            |       |               |    |
| Tetrachloroethene              | ND     | ug/l  | 500  |            |       |               |    |
| Chlorobenzene                  | ND     | ug/l  | 500  |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 2500 |            |       |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 500  |            |       |               |    |
| 1,1,1-Trichloroethane          | 1300   | ug/l  | 500  |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 500  |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 500  |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 500  |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 2500 |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 2000 |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 500  |            |       |               |    |
| Benzene                        | 1400   | ug/l  | 500  |            |       |               |    |
| Toluene                        | 980    | ug/l  | 750  |            |       |               |    |
| Ethylbenzene                   | ND     | ug/l  | 500  |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 2500 |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 1000 |            |       |               |    |
| Vinyl chloride                 | 2600   | ug/l  | 1000 |            |       |               |    |
| Chloroethane                   | ND     | ug/l  | 1000 |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 500  |            |       |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 750  |            |       |               |    |
| Trichloroethene                | ND     | ug/l  | 500  |            |       |               |    |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 2500 |            |       |               |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 2500 |            |       |               |    |
| 1,4-Dichlorobenzene            | ND     | ug/l  | 2500 |            |       |               |    |
| Methyl tert butyl ether        | ND     | ug/l  | 1000 |            |       |               |    |
| p/m-Xylene                     | 1000   | ug/l  | 1000 |            |       |               |    |
| o-Xylene                       | ND     | ug/l  | 1000 |            |       |               |    |
| cis-1,2-Dichloroethene         | 44000  | ug/l  | 500  |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 5000 |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 5000 |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 5000 |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-03  
MW-12I

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE  |               | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
|                                       |          |       |             |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1          | 8260B | 0209 15:41 PD |    |
| Styrene                               | ND       | ug/l  | 1000        |            |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 5000        |            |       |               |    |
| Acetone                               | ND       | ug/l  | 5000        |            |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 5000        |            |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 5000        |            |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 5000        |            |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 5000        |            |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 5000        |            |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 2500        |            |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 2500        |            |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 2000        |            |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 2500        |            |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 500         |            |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 2500        |            |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 500         |            |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 500         |            |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 2500        |            |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 2500        |            |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 2500        |            |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 2500        |            |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 600         |            |       |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 500         |            |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 500         |            |       |               |    |
| Naphthalene                           | ND       | ug/l  | 2500        |            |       |               |    |
| n-Propylbenzene                       | ND       | ug/l  | 500         |            |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 2500        |            |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 2500        |            |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 2500        |            |       |               |    |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 2500        |            |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 2000        |            |       |               |    |
| 4-Ethyltoluene                        | ND       | ug/l  | 2000        |            |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 2000        |            |       |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |       |               |    |
| 1,2-Dichloroethane-d4                 | 82.0     | %     | 70-130      |            |       |               |    |
| Toluene-d8                            | 97.0     | %     | 70-130      |            |       |               |    |
| 4-Bromofluorobenzene                  | 96.0     | %     | 70-130      |            |       |               |    |
| Dibromofluoromethane                  | 92.0     | %     | 70-130      |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-04

MW-3I

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 11:05

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL   | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|-------|------------|-------|---------------|----|
|                                |        |       |       |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |       | 1          | 8260B | 0210 16:53 PD |    |
| Methylene chloride             | ND     | ug/l  | 50000 |            |       |               |    |
| 1,1-Dichloroethane             | ND     | ug/l  | 7500  |            |       |               |    |
| Chloroform                     | 8500   | ug/l  | 7500  |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 5000  |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 18000 |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 5000  |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 7500  |            |       |               |    |
| Tetrachloroethene              | ND     | ug/l  | 5000  |            |       |               |    |
| Chlorobenzene                  | ND     | ug/l  | 5000  |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 25000 |            |       |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 5000  |            |       |               |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 5000  |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 5000  |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 5000  |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 5000  |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 25000 |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 20000 |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 5000  |            |       |               |    |
| Benzene                        | 11000  | ug/l  | 5000  |            |       |               |    |
| Toluene                        | ND     | ug/l  | 7500  |            |       |               |    |
| Ethylbenzene                   | ND     | ug/l  | 5000  |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 25000 |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 10000 |            |       |               |    |
| Vinyl chloride                 | 21000  | ug/l  | 10000 |            |       |               |    |
| Chloroethane                   | ND     | ug/l  | 10000 |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 5000  |            |       |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 7500  |            |       |               |    |
| Trichloroethene                | 12000  | ug/l  | 5000  |            |       |               |    |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 25000 |            |       |               |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 25000 |            |       |               |    |
| 1,4-Dichlorobenzene            | ND     | ug/l  | 25000 |            |       |               |    |
| Methyl tert butyl ether        | ND     | ug/l  | 10000 |            |       |               |    |
| p/m-Xylene                     | ND     | ug/l  | 10000 |            |       |               |    |
| o-Xylene                       | ND     | ug/l  | 10000 |            |       |               |    |
| cis-1,2-Dichloroethene         | 350000 | ug/l  | 5000  |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 50000 |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 50000 |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 50000 |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-04  
MW-3I

| PARAMETER                             | RESULT   | UNITS | RDL   | REF METHOD  | DATE  |               | ID |
|---------------------------------------|----------|-------|-------|-------------|-------|---------------|----|
|                                       |          |       |       |             | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |       | 1           | 8260B | 0210 16:53 PD |    |
| Styrene                               | ND       | ug/l  | 10000 |             |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 50000 |             |       |               |    |
| Acetone                               | ND       | ug/l  | 50000 |             |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 50000 |             |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 50000 |             |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 50000 |             |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 50000 |             |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 50000 |             |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 25000 |             |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 25000 |             |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 20000 |             |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 25000 |             |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 5000  |             |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 25000 |             |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 5000  |             |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 5000  |             |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 25000 |             |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 25000 |             |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 25000 |             |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 25000 |             |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 6000  |             |       |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 5000  |             |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 5000  |             |       |               |    |
| Naphthalene                           | ND       | ug/l  | 25000 |             |       |               |    |
| n-Propylbenzene                       | ND       | ug/l  | 5000  |             |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 25000 |             |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 25000 |             |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 25000 |             |       |               |    |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 25000 |             |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 20000 |             |       |               |    |
| 4-Ethyltoluene                        | ND       | ug/l  | 20000 |             |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 20000 |             |       |               |    |
| Surrogate(s)                          | Recovery |       |       | QC Criteria |       |               |    |
| 1,2-Dichloroethane-d4                 | 89.0     | %     |       | 70-130      |       |               |    |
| Toluene-d8                            | 96.0     | %     |       | 70-130      |       |               |    |
| 4-Bromofluorobenzene                  | 96.0     | %     |       | 70-130      |       |               |    |
| Dibromofluoromethane                  | 94.0     | %     |       | 70-130      |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-05

MW-20S

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 11:45

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
|                                |        |       |     |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |     | 1          | 8260B | 0210 15:08 PD |    |
| Methylene chloride             | ND     | ug/l  | 250 |            |       |               |    |
| 1,1-Dichloroethane             | 80     | ug/l  | 38  |            |       |               |    |
| Chloroform                     | ND     | ug/l  | 38. |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 25. |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 88. |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 25. |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 38. |            |       |               |    |
| Tetrachloroethene              | ND     | ug/l  | 25. |            |       |               |    |
| Chlorobenzene                  | 350    | ug/l  | 25  |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 120 |            |       |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 25. |            |       |               |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 25. |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 25. |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 25. |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 25. |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 120 |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 100 |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 25. |            |       |               |    |
| Benzene                        | 280    | ug/l  | 25  |            |       |               |    |
| Toluene                        | 1400   | ug/l  | 38  |            |       |               |    |
| Ethylbenzene                   | 510    | ug/l  | 25  |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 120 |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 50. |            |       |               |    |
| Vinyl chloride                 | ND     | ug/l  | 50. |            |       |               |    |
| Chloroethane                   | ND     | ug/l  | 50. |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 25. |            |       |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 38. |            |       |               |    |
| Trichloroethene                | ND     | ug/l  | 25. |            |       |               |    |
| 1,2-Dichlorobenzene            | 240    | ug/l  | 120 |            |       |               |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 120 |            |       |               |    |
| 1,4-Dichlorobenzene            | 420    | ug/l  | 120 |            |       |               |    |
| Methyl tert butyl ether        | ND     | ug/l  | 50. |            |       |               |    |
| p/m-Xylene                     | 1800   | ug/l  | 50  |            |       |               |    |
| o-Xylene                       | 620    | ug/l  | 50  |            |       |               |    |
| cis-1,2-Dichloroethene         | 46     | ug/l  | 25  |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 250 |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 250 |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 250 |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-05  
MW-20S

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE  |               | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
|                                       |          |       |             |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1          | 8260B | 0210 15:08 PD |    |
| Styrene                               | ND       | ug/l  | 50.         |            |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 250         |            |       |               |    |
| Acetone                               | ND       | ug/l  | 250         |            |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 250         |            |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 250         |            |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 250         |            |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 250         |            |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 250         |            |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 120         |            |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 120         |            |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 100         |            |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 120         |            |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 25.         |            |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 120         |            |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 25.         |            |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 25.         |            |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 120         |            |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 120         |            |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 120         |            |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 120         |            |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 30.         |            |       |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 25.         |            |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 25.         |            |       |               |    |
| Naphthalene                           | 150      | ug/l  | 120         |            |       |               |    |
| n-Propylbenzene                       | 34       | ug/l  | 25          |            |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 120         |            |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 120         |            |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 120         |            |       |               |    |
| 1,2,4-Trimethylbenzene                | 300      | ug/l  | 120         |            |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 100         |            |       |               |    |
| 4-Ethyltoluene                        | 180      | ug/l  | 100         |            |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 100         |            |       |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |       |               |    |
| 1,2-Dichloroethane-d4                 | 89.0     | %     | 70-130      |            |       |               |    |
| Toluene-d8                            | 97.0     | %     | 70-130      |            |       |               |    |
| 4-Bromofluorobenzene                  | 93.0     | %     | 70-130      |            |       |               |    |
| Dibromofluoromethane                  | 92.0     | %     | 70-130      |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-06

MW-20D

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 11:55

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
|                                |        |       |     |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |     | 1          | 8260B | 0209 16:51 PD |    |
| Methylene chloride             | ND     | ug/l  | 200 |            |       |               |    |
| 1,1-Dichloroethane             | 1300   | ug/l  | 30  |            |       |               |    |
| Chloroform                     | 110    | ug/l  | 30  |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 20. |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 70. |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 20. |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 30. |            |       |               |    |
| Tetrachloroethene              | ND     | ug/l  | 20. |            |       |               |    |
| Chlorobenzene                  | 270    | ug/l  | 20  |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 100 |            |       |               |    |
| 1,2-Dichloroethane             | 320    | ug/l  | 20  |            |       |               |    |
| 1,1,1-Trichloroethane          | 940    | ug/l  | 20  |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 20. |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 20. |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 20. |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 100 |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 80. |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 20. |            |       |               |    |
| Benzene                        | 1400   | ug/l  | 20  |            |       |               |    |
| Toluene                        | 1700   | ug/l  | 30  |            |       |               |    |
| Ethylbenzene                   | 630    | ug/l  | 20  |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 100 |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 40. |            |       |               |    |
| Vinyl chloride                 | 2500   | ug/l  | 40  |            |       |               |    |
| Chloroethane                   | ND     | ug/l  | 40. |            |       |               |    |
| 1,1-Dichloroethene             | 120    | ug/l  | 20  |            |       |               |    |
| trans-1,2-Dichloroethene       | 380    | ug/l  | 30  |            |       |               |    |
| Trichloroethene                | 30     | ug/l  | 20  |            |       |               |    |
| 1,2-Dichlorobenzene            | 190    | ug/l  | 100 |            |       |               |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 100 |            |       |               |    |
| 1,4-Dichlorobenzene            | 380    | ug/l  | 100 |            |       |               |    |
| Methyl tert butyl ether        | 42     | ug/l  | 40  |            |       |               |    |
| p/m-Xylene                     | 2300   | ug/l  | 40  |            |       |               |    |
| o-Xylene                       | 730    | ug/l  | 40  |            |       |               |    |
| cis-1,2-Dichloroethene         | >4000  | ug/l  | 20  |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 200 |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 200 |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 200 |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-06  
MW-20D

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE |               | ID |
|---------------------------------------|----------|-------|-------------|------------|------|---------------|----|
|                                       |          |       |             |            | PREP | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1 8260B    |      | 0209 16:51 PD |    |
| Styrene                               | ND       | ug/l  | 40.         |            |      |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 200         |            |      |               |    |
| Acetone                               | ND       | ug/l  | 200         |            |      |               |    |
| Carbon disulfide                      | ND       | ug/l  | 200         |            |      |               |    |
| 2-Butanone                            | ND       | ug/l  | 200         |            |      |               |    |
| Vinyl acetate                         | ND       | ug/l  | 200         |            |      |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 200         |            |      |               |    |
| 2-Hexanone                            | ND       | ug/l  | 200         |            |      |               |    |
| Bromochloromethane                    | ND       | ug/l  | 100         |            |      |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 100         |            |      |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 80.         |            |      |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 100         |            |      |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 20.         |            |      |               |    |
| Bromobenzene                          | ND       | ug/l  | 100         |            |      |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 20.         |            |      |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 20.         |            |      |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 100         |            |      |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 100         |            |      |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 100         |            |      |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 100         |            |      |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 24.         |            |      |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 20          |            |      |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 20.         |            |      |               |    |
| Naphthalene                           | 120      | ug/l  | 100         |            |      |               |    |
| n-Propylbenzene                       | 31       | ug/l  | 20          |            |      |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 100         |            |      |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 100         |            |      |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 100         |            |      |               |    |
| 1,2,4-Trimethylbenzene                | 260      | ug/l  | 100         |            |      |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 80.         |            |      |               |    |
| 4-Ethyltoluene                        | 160      | ug/l  | 80          |            |      |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 80.         |            |      |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |      |               |    |
| 1,2-Dichloroethane-d4                 | 83.0     | %     | 70-130      |            |      |               |    |
| Toluene-d8                            | 96.0     | %     | 70-130      |            |      |               |    |
| 4-Bromofluorobenzene                  | 94.0     | %     | 70-130      |            |      |               |    |
| Dibromofluoromethane                  | 96.0     | %     | 70-130      |            |      |               |    |
| Volatile Organics by EPA 8260B        |          |       |             | 1 8260B    |      | 0210 15:43 PD |    |
| cis-1,2-Dichloroethene                | 29000    | ug/l  | 250         |            |      |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |      |               |    |
| 1,2-Dichloroethane-d4                 | 91.0     | %     | 70-130      |            |      |               |    |
| Toluene-d8                            | 100      | %     | 70-130      |            |      |               |    |
| 4-Bromofluorobenzene                  | 96.0     | %     | 70-130      |            |      |               |    |
| Dibromofluoromethane                  | 95.0     | %     | 70-130      |            |      |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-07

MW-24

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 12:20

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE  |      | ID            |
|--------------------------------|--------|-------|-----|------------|-------|------|---------------|
|                                |        |       |     |            | PREP  | ANAL |               |
| Volatile Organics by EPA 8260B |        |       |     | 1          | 8260B |      | 0210 16:18 PD |
| Methylene chloride             | ND     | ug/l  | 12. |            |       |      |               |
| 1,1-Dichloroethane             | ND     | ug/l  | 1.9 |            |       |      |               |
| Chloroform                     | ND     | ug/l  | 1.9 |            |       |      |               |
| Carbon tetrachloride           | ND     | ug/l  | 1.2 |            |       |      |               |
| 1,2-Dichloropropane            | ND     | ug/l  | 4.4 |            |       |      |               |
| Dibromochloromethane           | ND     | ug/l  | 1.2 |            |       |      |               |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 1.9 |            |       |      |               |
| Tetrachloroethene              | ND     | ug/l  | 1.2 |            |       |      |               |
| Chlorobenzene                  | 83     | ug/l  | 1.2 |            |       |      |               |
| Trichlorofluoromethane         | ND     | ug/l  | 6.2 |            |       |      |               |
| 1,2-Dichloroethane             | ND     | ug/l  | 1.2 |            |       |      |               |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 1.2 |            |       |      |               |
| Bromodichloromethane           | ND     | ug/l  | 1.2 |            |       |      |               |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 1.2 |            |       |      |               |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 1.2 |            |       |      |               |
| 1,1-Dichloropropene            | ND     | ug/l  | 6.2 |            |       |      |               |
| Bromoform                      | ND     | ug/l  | 5.0 |            |       |      |               |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 1.2 |            |       |      |               |
| Benzene                        | 60     | ug/l  | 1.2 |            |       |      |               |
| Toluene                        | ND     | ug/l  | 1.9 |            |       |      |               |
| Ethylbenzene                   | ND     | ug/l  | 1.2 |            |       |      |               |
| Chloromethane                  | ND     | ug/l  | 6.2 |            |       |      |               |
| Bromomethane                   | ND     | ug/l  | 2.5 |            |       |      |               |
| Vinyl chloride                 | ND     | ug/l  | 2.5 |            |       |      |               |
| Chloroethane                   | 3.3    | ug/l  | 2.5 |            |       |      |               |
| 1,1-Dichloroethene             | ND     | ug/l  | 1.2 |            |       |      |               |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 1.9 |            |       |      |               |
| Trichloroethene                | ND     | ug/l  | 1.2 |            |       |      |               |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 6.2 |            |       |      |               |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 6.2 |            |       |      |               |
| 1,4-Dichlorobenzene            | 6.5    | ug/l  | 6.2 |            |       |      |               |
| Methyl tert butyl ether        | 5.4    | ug/l  | 2.5 |            |       |      |               |
| p/m-Xylene                     | 2.8    | ug/l  | 2.5 |            |       |      |               |
| o-Xylene                       | ND     | ug/l  | 2.5 |            |       |      |               |
| cis-1,2-Dichloroethene         | 2.1    | ug/l  | 1.2 |            |       |      |               |
| Dibromomethane                 | ND     | ug/l  | 12. |            |       |      |               |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 12. |            |       |      |               |
| Acrylonitrile                  | ND     | ug/l  | 12. |            |       |      |               |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-07  
MW-24

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE          |      | ID |
|---------------------------------------|----------|-------|-------------|------------|---------------|------|----|
|                                       |          |       |             |            | PREP          | ANAL |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1 8260B    | 0210 16:18 PD |      |    |
| Styrene                               | ND       | ug/l  | 2.5         |            |               |      |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 12.         |            |               |      |    |
| Acetone                               | ND       | ug/l  | 12.         |            |               |      |    |
| Carbon disulfide                      | ND       | ug/l  | 12.         |            |               |      |    |
| 2-Butanone                            | ND       | ug/l  | 12.         |            |               |      |    |
| Vinyl acetate                         | ND       | ug/l  | 12.         |            |               |      |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 12.         |            |               |      |    |
| 2-Hexanone                            | ND       | ug/l  | 12.         |            |               |      |    |
| Bromochloromethane                    | ND       | ug/l  | 6.2         |            |               |      |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 6.2         |            |               |      |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 5.0         |            |               |      |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 6.2         |            |               |      |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 1.2         |            |               |      |    |
| Bromobenzene                          | ND       | ug/l  | 6.2         |            |               |      |    |
| n-Butylbenzene                        | ND       | ug/l  | 1.2         |            |               |      |    |
| sec-Butylbenzene                      | 1.2      | ug/l  | 1.2         |            |               |      |    |
| tert-Butylbenzene                     | ND       | ug/l  | 6.2         |            |               |      |    |
| o-Chlorotoluene                       | ND       | ug/l  | 6.2         |            |               |      |    |
| p-Chlorotoluene                       | ND       | ug/l  | 6.2         |            |               |      |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 6.2         |            |               |      |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 1.5         |            |               |      |    |
| Isopropylbenzene                      | 2.3      | ug/l  | 1.2         |            |               |      |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 1.2         |            |               |      |    |
| Naphthalene                           | ND       | ug/l  | 6.2         |            |               |      |    |
| n-Propylbenzene                       | 4.3      | ug/l  | 1.2         |            |               |      |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 6.2         |            |               |      |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 6.2         |            |               |      |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 6.2         |            |               |      |    |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 6.2         |            |               |      |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 5.0         |            |               |      |    |
| 4-Ethyltoluene                        | ND       | ug/l  | 5.0         |            |               |      |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 5.0         |            |               |      |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |               |      |    |
| 1,2-Dichloroethane-d4                 | 87.0     | %     | 70-130      |            |               |      |    |
| Toluene-d8                            | 96.0     | %     | 70-130      |            |               |      |    |
| 4-Bromofluorobenzene                  | 96.0     | %     | 70-130      |            |               |      |    |
| Dibromofluoromethane                  | 93.0     | %     | 70-130      |            |               |      |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-08

MW-19I

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 13:00

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL  | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|------|------------|-------|---------------|----|
|                                |        |       |      |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |      | 1          | 8260B | 0209 14:31 PD |    |
| 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                  | 0.53   | 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                        | 0.94   | 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                   | 38     | 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  |            |       |               |    |
| Methyl tert butyl ether        | 6.0    | 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  |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-08  
MW-19I

| PARAMETER                             | RESULT   | UNITS | RDL  | REF METHOD  | DATE  |               | ID |
|---------------------------------------|----------|-------|------|-------------|-------|---------------|----|
|                                       |          |       |      |             | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |      | 1           | 8260B | 0209 14:31 PD |    |
| 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  |             |       |               |    |
| 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  |             |       |               |    |
| Surrogate(s)                          | Recovery |       |      | QC Criteria |       |               |    |
| 1,2-Dichloroethane-d4                 | 87.0     | %     |      | 70-130      |       |               |    |
| Toluene-d8                            | 97.0     | %     |      | 70-130      |       |               |    |
| 4-Bromofluorobenzene                  | 95.0     | %     |      | 70-130      |       |               |    |
| Dibromofluoromethane                  | 97.0     | %     |      | 70-130      |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-09

MW-19S

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 13:30

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
|                                |        |       |     |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |     | 1          | 8260B | 0209 18:02 PD |    |
| Methylene chloride             | ND     | ug/l  | 50. |            |       |               |    |
| 1,1-Dichloroethane             | 18     | ug/l  | 7.5 |            |       |               |    |
| Chloroform                     | ND     | ug/l  | 7.5 |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 5.0 |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 18. |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 5.0 |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 7.5 |            |       |               |    |
| Tetrachloroethene              | 33     | ug/l  | 5.0 |            |       |               |    |
| Chlorobenzene                  | ND     | ug/l  | 5.0 |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 25. |            |       |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 5.0 |            |       |               |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 5.0 |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 5.0 |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 5.0 |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 5.0 |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 25. |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 20. |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 5.0 |            |       |               |    |
| Benzene                        | ND     | ug/l  | 5.0 |            |       |               |    |
| Toluene                        | ND     | ug/l  | 7.5 |            |       |               |    |
| Ethylbenzene                   | ND     | ug/l  | 5.0 |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 25. |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 10. |            |       |               |    |
| Vinyl chloride                 | ND     | ug/l  | 10. |            |       |               |    |
| Chloroethane                   | ND     | ug/l  | 10. |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 5.0 |            |       |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 7.5 |            |       |               |    |
| Trichloroethene                | 39     | ug/l  | 5.0 |            |       |               |    |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 25. |            |       |               |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 25. |            |       |               |    |
| 1,4-Dichlorobenzene            | ND     | ug/l  | 25. |            |       |               |    |
| Methyl tert butyl ether        | ND     | ug/l  | 10. |            |       |               |    |
| p/m-Xylene                     | ND     | ug/l  | 10. |            |       |               |    |
| o-Xylene                       | ND     | ug/l  | 10. |            |       |               |    |
| cis-1,2-Dichloroethene         | 500    | ug/l  | 5.0 |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 50. |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 50. |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 50. |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-09  
MW-19S

| PARAMETER                             | RESULT   | UNITS | RDL | REF METHOD  | DATE  |               | ID |
|---------------------------------------|----------|-------|-----|-------------|-------|---------------|----|
|                                       |          |       |     |             | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |     | 1           | 8260B | 0209 18:02 PD |    |
| Styrene                               | ND       | ug/l  | 10. |             |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 50. |             |       |               |    |
| Acetone                               | ND       | ug/l  | 50. |             |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 50. |             |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 50. |             |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 50. |             |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 50. |             |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 50. |             |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 25. |             |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 25. |             |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 20. |             |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 25. |             |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 5.0 |             |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 25. |             |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 5.0 |             |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 5.0 |             |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 25. |             |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 25. |             |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 25. |             |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 25. |             |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 6.0 |             |       |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 5.0 |             |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 5.0 |             |       |               |    |
| Naphthalene                           | ND       | ug/l  | 25. |             |       |               |    |
| n-Propylbenzene                       | ND       | ug/l  | 5.0 |             |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 25. |             |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 25. |             |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 25. |             |       |               |    |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 25. |             |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 20. |             |       |               |    |
| 4-Ethyltoluene                        | ND       | ug/l  | 20. |             |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 20. |             |       |               |    |
| Surrogate(s)                          | Recovery |       |     | QC Criteria |       |               |    |
| 1,2-Dichloroethane-d4                 | 84.0     | %     |     | 70-130      |       |               |    |
| Toluene-d8                            | 96.0     | %     |     | 70-130      |       |               |    |
| 4-Bromofluorobenzene                  | 94.0     | %     |     | 70-130      |       |               |    |
| Dibromofluoromethane                  | 93.0     | %     |     | 70-130      |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-10

MW-34

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 14:20

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL  | REF METHOD | DATE |               | ID |
|--------------------------------|--------|-------|------|------------|------|---------------|----|
|                                |        |       |      |            | PREP | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |      | 1 8260B    |      | 0210 13:23 PD |    |
| Methylene chloride             | ND     | ug/l  | 2000 |            |      |               |    |
| 1,1-Dichloroethane             | ND     | ug/l  | 300  |            |      |               |    |
| Chloroform                     | ND     | ug/l  | 300  |            |      |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 200  |            |      |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 700  |            |      |               |    |
| Dibromochloromethane           | ND     | ug/l  | 200  |            |      |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 300  |            |      |               |    |
| Tetrachloroethene              | 35000  | ug/l  | 200  |            |      |               |    |
| Chlorobenzene                  | ND     | ug/l  | 200  |            |      |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 1000 |            |      |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 200  |            |      |               |    |
| 1,1,1-Trichloroethane          | 540    | ug/l  | 200  |            |      |               |    |
| Bromodichloromethane           | ND     | ug/l  | 200  |            |      |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 200  |            |      |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 200  |            |      |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 1000 |            |      |               |    |
| Bromoform                      | ND     | ug/l  | 800  |            |      |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 200  |            |      |               |    |
| Benzene                        | ND     | ug/l  | 200  |            |      |               |    |
| Toluene                        | ND     | ug/l  | 300  |            |      |               |    |
| Ethylbenzene                   | ND     | ug/l  | 200  |            |      |               |    |
| Chloromethane                  | ND     | ug/l  | 1000 |            |      |               |    |
| Bromomethane                   | ND     | ug/l  | 400  |            |      |               |    |
| Vinyl chloride                 | 2900   | ug/l  | 400  |            |      |               |    |
| Chloroethane                   | ND     | ug/l  | 400  |            |      |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 200  |            |      |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 300  |            |      |               |    |
| Trichloroethene                | 5500   | ug/l  | 200  |            |      |               |    |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 1000 |            |      |               |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 1000 |            |      |               |    |
| 1,4-Dichlorobenzene            | ND     | ug/l  | 1000 |            |      |               |    |
| Methyl tert butyl ether        | ND     | ug/l  | 400  |            |      |               |    |
| p/m-Xylene                     | ND     | ug/l  | 400  |            |      |               |    |
| o-Xylene                       | ND     | ug/l  | 400  |            |      |               |    |
| cis-1,2-Dichloroethene         | 12000  | ug/l  | 200  |            |      |               |    |
| Dibromomethane                 | ND     | ug/l  | 2000 |            |      |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 2000 |            |      |               |    |
| Acrylonitrile                  | ND     | ug/l  | 2000 |            |      |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-10  
MW-34

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE  |               | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
|                                       |          |       |             |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1          | 8260B | 0210 13:23 PD |    |
| Styrene                               | ND       | ug/l  | 400         |            |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 2000        |            |       |               |    |
| Acetone                               | ND       | ug/l  | 2000        |            |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 2000        |            |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 2000        |            |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 2000        |            |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 2000        |            |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 2000        |            |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 1000        |            |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 1000        |            |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 800         |            |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 1000        |            |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 200         |            |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 1000        |            |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 200         |            |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 200         |            |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 1000        |            |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 1000        |            |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 1000        |            |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 1000        |            |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 240         |            |       |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 200         |            |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 200         |            |       |               |    |
| Naphthalene                           | ND       | ug/l  | 1000        |            |       |               |    |
| n-Propylbenzene                       | ND       | ug/l  | 200         |            |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 1000        |            |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 1000        |            |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 1000        |            |       |               |    |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 1000        |            |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 800         |            |       |               |    |
| 4-Ethyltoluene                        | ND       | ug/l  | 800         |            |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 800         |            |       |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |       |               |    |
| 1,2-Dichloroethane-d4                 | 88.0     | %     | 70-130      |            |       |               |    |
| Toluene-d8                            | 98.0     | %     | 70-130      |            |       |               |    |
| 4-Bromofluorobenzene                  | 97.0     | %     | 70-130      |            |       |               |    |
| Dibromofluoromethane                  | 92.0     | %     | 70-130      |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-11

MW-33

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 15:00

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
|                                |        |       |     |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |     | 1          | 8260B | 0209 18:36 PD |    |
| Methylene chloride             | ND     | ug/l  | 25. |            |       |               |    |
| 1,1-Dichloroethane             | 9.3    | ug/l  | 3.8 |            |       |               |    |
| Chloroform                     | ND     | ug/l  | 3.8 |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 2.5 |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 8.8 |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 2.5 |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 3.8 |            |       |               |    |
| Tetrachloroethene              | 7.4    | ug/l  | 2.5 |            |       |               |    |
| Chlorobenzene                  | ND     | ug/l  | 2.5 |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 12. |            |       |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 2.5 |            |       |               |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 2.5 |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 2.5 |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 2.5 |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 2.5 |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 12. |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 10. |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 2.5 |            |       |               |    |
| Benzene                        | ND     | ug/l  | 2.5 |            |       |               |    |
| Toluene                        | ND     | ug/l  | 3.8 |            |       |               |    |
| Ethylbenzene                   | ND     | ug/l  | 2.5 |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 12. |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 5.0 |            |       |               |    |
| Vinyl chloride                 | 130    | ug/l  | 5.0 |            |       |               |    |
| Chloroethane                   | ND     | ug/l  | 5.0 |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 2.5 |            |       |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 3.8 |            |       |               |    |
| Trichloroethene                | 12     | ug/l  | 2.5 |            |       |               |    |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 12. |            |       |               |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 12. |            |       |               |    |
| 1,4-Dichlorobenzene            | ND     | ug/l  | 12. |            |       |               |    |
| Methyl tert butyl ether        | 9.8    | ug/l  | 5.0 |            |       |               |    |
| p/m-Xylene                     | ND     | ug/l  | 5.0 |            |       |               |    |
| o-Xylene                       | ND     | ug/l  | 5.0 |            |       |               |    |
| cis-1,2-Dichloroethene         | 200    | ug/l  | 2.5 |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 25. |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 25. |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 25. |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-11  
MW-33

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE  |               | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
|                                       |          |       |             |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1          | 8260B | 0209 18:36 PD |    |
| Styrene                               | ND       | ug/l  | 5.0         |            |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 25.         |            |       |               |    |
| Acetone                               | ND       | ug/l  | 25.         |            |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 25.         |            |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 25.         |            |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 25.         |            |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 25.         |            |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 25.         |            |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 12.         |            |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 12.         |            |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 10.         |            |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 12.         |            |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 2.5         |            |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 12.         |            |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 2.5         |            |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 2.5         |            |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 12.         |            |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 12.         |            |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 12.         |            |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 12.         |            |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 3.0         |            |       |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 2.5         |            |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 2.5         |            |       |               |    |
| Naphthalene                           | ND       | ug/l  | 12.         |            |       |               |    |
| n-Propylbenzene                       | ND       | ug/l  | 2.5         |            |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 12.         |            |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 12.         |            |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 12.         |            |       |               |    |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 12.         |            |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 10.         |            |       |               |    |
| 4-Ethyltoluene                        | ND       | ug/l  | 10.         |            |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 10.         |            |       |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |       |               |    |
| 1,2-Dichloroethane-d4                 | 85.0     | %     | 70-130      |            |       |               |    |
| Toluene-d8                            | 99.0     | %     | 70-130      |            |       |               |    |
| 4-Bromofluorobenzene                  | 98.0     | %     | 70-130      |            |       |               |    |
| Dibromofluoromethane                  | 93.0     | %     | 70-130      |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-12

MW-X

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 00:00

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE |            | ID |
|--------------------------------|--------|-------|-----|------------|------|------------|----|
|                                |        |       |     |            | PREP | ANAL       |    |
| Volatile Organics by EPA 8260B |        |       |     | 1 8260B    |      | 0211 09:54 | PD |
| Methylene chloride             | ND     | ug/l  | 20. |            |      |            |    |
| 1,1-Dichloroethane             | ND     | ug/l  | 3.0 |            |      |            |    |
| Chloroform                     | ND     | ug/l  | 3.0 |            |      |            |    |
| Carbon tetrachloride           | ND     | ug/l  | 2.0 |            |      |            |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 7.0 |            |      |            |    |
| Dibromochloromethane           | ND     | ug/l  | 2.0 |            |      |            |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 3.0 |            |      |            |    |
| Tetrachloroethene              | ND     | ug/l  | 2.0 |            |      |            |    |
| Chlorobenzene                  | 92     | ug/l  | 2.0 |            |      |            |    |
| Trichlorofluoromethane         | ND     | ug/l  | 10. |            |      |            |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 2.0 |            |      |            |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 2.0 |            |      |            |    |
| Bromodichloromethane           | ND     | ug/l  | 2.0 |            |      |            |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 2.0 |            |      |            |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 2.0 |            |      |            |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 10. |            |      |            |    |
| Bromoform                      | ND     | ug/l  | 8.0 |            |      |            |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 2.0 |            |      |            |    |
| Benzene                        | 65     | ug/l  | 2.0 |            |      |            |    |
| Toluene                        | ND     | ug/l  | 3.0 |            |      |            |    |
| Ethylbenzene                   | ND     | ug/l  | 2.0 |            |      |            |    |
| Chloromethane                  | ND     | ug/l  | 10. |            |      |            |    |
| Bromomethane                   | ND     | ug/l  | 4.0 |            |      |            |    |
| Vinyl chloride                 | ND     | ug/l  | 4.0 |            |      |            |    |
| Chloroethane                   | ND     | ug/l  | 4.0 |            |      |            |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 2.0 |            |      |            |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 3.0 |            |      |            |    |
| Trichloroethene                | ND     | ug/l  | 2.0 |            |      |            |    |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 10. |            |      |            |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 10. |            |      |            |    |
| 1,4-Dichlorobenzene            | ND     | ug/l  | 10. |            |      |            |    |
| Methyl tert butyl ether        | 5.9    | ug/l  | 4.0 |            |      |            |    |
| p/m-Xylene                     | ND     | ug/l  | 4.0 |            |      |            |    |
| o-Xylene                       | ND     | ug/l  | 4.0 |            |      |            |    |
| cis-1,2-Dichloroethene         | ND     | ug/l  | 2.0 |            |      |            |    |
| Dibromomethane                 | ND     | ug/l  | 20. |            |      |            |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 20. |            |      |            |    |
| Acrylonitrile                  | ND     | ug/l  | 20. |            |      |            |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-12  
MW-X

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE  |               | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
|                                       |          |       |             |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1          | 8260B | 0211 09:54 PD |    |
| Styrene                               | ND       | ug/l  | 4.0         |            |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 20.         |            |       |               |    |
| Acetone                               | ND       | ug/l  | 20.         |            |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 20.         |            |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 20.         |            |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 20.         |            |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 20.         |            |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 20.         |            |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 10.         |            |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 10.         |            |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 8.0         |            |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 10.         |            |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 2.0         |            |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 10.         |            |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 2.0         |            |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 2.0         |            |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 10.         |            |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 10.         |            |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 10.         |            |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 10.         |            |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 2.4         |            |       |               |    |
| Isopropylbenzene                      | 2.7      | ug/l  | 2.0         |            |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 2.0         |            |       |               |    |
| Naphthalene                           | ND       | ug/l  | 10.         |            |       |               |    |
| n-Propylbenzene                       | 5.1      | ug/l  | 2.0         |            |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 10.         |            |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 10.         |            |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 10.         |            |       |               |    |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 10.         |            |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 8.0         |            |       |               |    |
| 4-Ethyltoluene                        | ND       | ug/l  | 8.0         |            |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 8.0         |            |       |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |       |               |    |
| 1,2-Dichloroethane-d4                 | 88.0     | %     | 70-130      |            |       |               |    |
| Toluene-d8                            | 97.0     | %     | 70-130      |            |       |               |    |
| 4-Bromofluorobenzene                  | 98.0     | %     | 70-130      |            |       |               |    |
| Dibromofluoromethane                  | 91.0     | %     | 70-130      |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901543-13

MW-27

Sample Matrix:

WATER

Date Collected: 04-FEB-2009 15:00

Date Received : 06-FEB-2009

Date Reported : 13-FEB-2009

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

| PARAMETER                      | RESULT | UNITS | RDL | REF METHOD | DATE  |               | ID |
|--------------------------------|--------|-------|-----|------------|-------|---------------|----|
|                                |        |       |     |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B |        |       |     | 1          | 8260B | 0210 14:33 PD |    |
| Methylene chloride             | ND     | ug/l  | 200 |            |       |               |    |
| 1,1-Dichloroethane             | 75     | ug/l  | 30  |            |       |               |    |
| Chloroform                     | ND     | ug/l  | 30. |            |       |               |    |
| Carbon tetrachloride           | ND     | ug/l  | 20. |            |       |               |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 70. |            |       |               |    |
| Dibromochloromethane           | ND     | ug/l  | 20. |            |       |               |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 30. |            |       |               |    |
| Tetrachloroethene              | ND     | ug/l  | 20. |            |       |               |    |
| Chlorobenzene                  | 1400   | ug/l  | 20  |            |       |               |    |
| Trichlorofluoromethane         | ND     | ug/l  | 100 |            |       |               |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 20. |            |       |               |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 20. |            |       |               |    |
| Bromodichloromethane           | ND     | ug/l  | 20. |            |       |               |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 20. |            |       |               |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 20. |            |       |               |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 100 |            |       |               |    |
| Bromoform                      | ND     | ug/l  | 80. |            |       |               |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 20. |            |       |               |    |
| Benzene                        | 190    | ug/l  | 20  |            |       |               |    |
| Toluene                        | 97     | ug/l  | 30  |            |       |               |    |
| Ethylbenzene                   | 120    | ug/l  | 20  |            |       |               |    |
| Chloromethane                  | ND     | ug/l  | 100 |            |       |               |    |
| Bromomethane                   | ND     | ug/l  | 40. |            |       |               |    |
| Vinyl chloride                 | 400    | ug/l  | 40  |            |       |               |    |
| Chloroethane                   | 93     | ug/l  | 40  |            |       |               |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 20. |            |       |               |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 30. |            |       |               |    |
| Trichloroethene                | ND     | ug/l  | 20. |            |       |               |    |
| 1,2-Dichlorobenzene            | 200    | ug/l  | 100 |            |       |               |    |
| 1,3-Dichlorobenzene            | 130    | ug/l  | 100 |            |       |               |    |
| 1,4-Dichlorobenzene            | 320    | ug/l  | 100 |            |       |               |    |
| Methyl tert butyl ether        | 52     | ug/l  | 40  |            |       |               |    |
| p/m-Xylene                     | 320    | ug/l  | 40  |            |       |               |    |
| o-Xylene                       | 97     | ug/l  | 40  |            |       |               |    |
| cis-1,2-Dichloroethene         | 430    | ug/l  | 20  |            |       |               |    |
| Dibromomethane                 | ND     | ug/l  | 200 |            |       |               |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 200 |            |       |               |    |
| Acrylonitrile                  | ND     | ug/l  | 200 |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL  
CERTIFICATE OF ANALYSIS**

**Laboratory Sample Number:** L0901543-13  
MW-27

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE  |               | ID |
|---------------------------------------|----------|-------|-------------|------------|-------|---------------|----|
|                                       |          |       |             |            | PREP  | ANAL          |    |
| Volatile Organics by EPA 8260B cont'd |          |       |             | 1          | 8260B | 0210 14:33 PD |    |
| Styrene                               | ND       | ug/l  | 40.         |            |       |               |    |
| Dichlorodifluoromethane               | ND       | ug/l  | 200         |            |       |               |    |
| Acetone                               | ND       | ug/l  | 200         |            |       |               |    |
| Carbon disulfide                      | ND       | ug/l  | 200         |            |       |               |    |
| 2-Butanone                            | ND       | ug/l  | 200         |            |       |               |    |
| Vinyl acetate                         | ND       | ug/l  | 200         |            |       |               |    |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 200         |            |       |               |    |
| 2-Hexanone                            | ND       | ug/l  | 200         |            |       |               |    |
| Bromochloromethane                    | ND       | ug/l  | 100         |            |       |               |    |
| 2,2-Dichloropropane                   | ND       | ug/l  | 100         |            |       |               |    |
| 1,2-Dibromoethane                     | ND       | ug/l  | 80.         |            |       |               |    |
| 1,3-Dichloropropane                   | ND       | ug/l  | 100         |            |       |               |    |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 20.         |            |       |               |    |
| Bromobenzene                          | ND       | ug/l  | 100         |            |       |               |    |
| n-Butylbenzene                        | ND       | ug/l  | 20.         |            |       |               |    |
| sec-Butylbenzene                      | ND       | ug/l  | 20.         |            |       |               |    |
| tert-Butylbenzene                     | ND       | ug/l  | 100         |            |       |               |    |
| o-Chlorotoluene                       | ND       | ug/l  | 100         |            |       |               |    |
| p-Chlorotoluene                       | ND       | ug/l  | 100         |            |       |               |    |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 100         |            |       |               |    |
| Hexachlorobutadiene                   | ND       | ug/l  | 24.         |            |       |               |    |
| Isopropylbenzene                      | ND       | ug/l  | 20.         |            |       |               |    |
| p-Isopropyltoluene                    | ND       | ug/l  | 20.         |            |       |               |    |
| Naphthalene                           | ND       | ug/l  | 100         |            |       |               |    |
| n-Propylbenzene                       | 20       | ug/l  | 20          |            |       |               |    |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 100         |            |       |               |    |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 100         |            |       |               |    |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 100         |            |       |               |    |
| 1,2,4-Trimethylbenzene                | 160      | ug/l  | 100         |            |       |               |    |
| 1,4-Diethylbenzene                    | ND       | ug/l  | 80          |            |       |               |    |
| 4-Ethyltoluene                        | 84       | ug/l  | 80          |            |       |               |    |
| 1,2,4,5-Tetramethylbenzene            | ND       | ug/l  | 80.         |            |       |               |    |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |       |               |    |
| 1,2-Dichloroethane-d4                 | 89.0     | %     | 70-130      |            |       |               |    |
| Toluene-d8                            | 98.0     | %     | 70-130      |            |       |               |    |
| 4-Bromofluorobenzene                  | 92.0     | %     | 70-130      |            |       |               |    |
| Dibromofluoromethane                  | 94.0     | %     | 70-130      |            |       |               |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL  
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0901543

| Parameter                                                                               | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|-----------------------------------------------------------------------------------------|-------|--------|-----|-----------|-----------|
| Volatile Organics by EPA 8260B for sample(s) 01-03,06,08-09,11 (WG352480-1, WG352480-2) |       |        |     |           |           |
| Chlorobenzene                                                                           | 110   | 108    | 2   | 20        | 75-130    |
| Benzene                                                                                 | 107   | 104    | 3   | 20        | 76-127    |
| Toluene                                                                                 | 108   | 107    | 1   | 20        | 76-125    |
| 1,1-Dichloroethene                                                                      | 103   | 97     | 6   | 20        | 61-145    |
| Trichloroethene                                                                         | 96    | 95     | 1   | 20        | 71-120    |
| Surrogate(s)                                                                            |       |        |     |           |           |
| 1,2-Dichloroethane-d4                                                                   | 87    | 88     | 1   |           | 70-130    |
| Toluene-d8                                                                              | 99    | 97     | 2   |           | 70-130    |
| 4-Bromofluorobenzene                                                                    | 97    | 97     | 0   |           | 70-130    |
| Dibromofluoromethane                                                                    | 97    | 99     | 2   |           | 70-130    |
| Volatile Organics by EPA 8260B for sample(s) 04-07,10,13 (WG352480-4, WG352480-5)       |       |        |     |           |           |
| Chlorobenzene                                                                           | 114   | 108    | 2   | 20        | 75-130    |
| Benzene                                                                                 | 109   | 106    | 1   | 20        | 76-127    |
| Toluene                                                                                 | 115   | 107    | 1   | 20        | 76-125    |
| 1,1-Dichloroethene                                                                      | 108   | 100    | 3   | 20        | 61-145    |
| Trichloroethene                                                                         | 101   | 95     | 1   | 20        | 71-120    |
| Surrogate(s)                                                                            |       |        |     |           |           |
| 1,2-Dichloroethane-d4                                                                   | 86    | 86     | 0   |           | 70-130    |
| Toluene-d8                                                                              | 100   | 97     | 3   |           | 70-130    |
| 4-Bromofluorobenzene                                                                    | 94    | 91     | 3   |           | 70-130    |
| Dibromofluoromethane                                                                    | 95    | 97     | 2   |           | 70-130    |
| Volatile Organics by EPA 8260B for sample(s) 12 (WG352480-7, WG352480-8)                |       |        |     |           |           |
| Chlorobenzene                                                                           | 104   | 105    | 1   | 20        | 75-130    |
| Benzene                                                                                 | 102   | 106    | 4   | 20        | 76-127    |
| Toluene                                                                                 | 103   | 106    | 3   | 20        | 76-125    |
| 1,1-Dichloroethene                                                                      | 95    | 103    | 8   | 20        | 61-145    |
| Trichloroethene                                                                         | 92    | 94     | 2   | 20        | 71-120    |
| Surrogate(s)                                                                            |       |        |     |           |           |
| 1,2-Dichloroethane-d4                                                                   | 87    | 88     | 1   |           | 70-130    |
| Toluene-d8                                                                              | 99    | 99     | 0   |           | 70-130    |
| 4-Bromofluorobenzene                                                                    | 95    | 97     | 2   |           | 70-130    |
| Dibromofluoromethane                                                                    | 94    | 98     | 4   |           | 70-130    |

**ALPHA ANALYTICAL**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0901543

| PARAMETER                                                   | RESULT | UNITS | RDL  | REF METHOD | DATE |               | ID |
|-------------------------------------------------------------|--------|-------|------|------------|------|---------------|----|
|                                                             |        |       |      |            | PREP | ANAL          |    |
| Blank Analysis for sample(s) 01-03,06,08-09,11 (WG352480-3) |        |       |      |            |      |               |    |
| Volatile Organics by EPA 8260B                              |        |       |      | 1 8260B    |      | 0209 08:39 PD |    |
| 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  |            |      |               |    |
| 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  |            |      |               |    |

**ALPHA ANALYTICAL**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0901543

Continued

| PARAMETER                                                   | RESULT   | UNITS | RDL  | REF METHOD  | DATE  |               | ID |
|-------------------------------------------------------------|----------|-------|------|-------------|-------|---------------|----|
|                                                             |          |       |      |             | PREP  | ANAL          |    |
| Blank Analysis for sample(s) 01-03,06,08-09,11 (WG352480-3) |          |       |      |             |       |               |    |
| Volatile Organics by EPA 8260B cont'd                       |          |       |      | 1           | 8260B | 0209 08:39 PD |    |
| 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  |             |       |               |    |
| 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  |             |       |               |    |
| Surrogate(s)                                                | Recovery |       |      | QC Criteria |       |               |    |
| 1,2-Dichloroethane-d4                                       | 89.0     | %     |      | 70-130      |       |               |    |
| Toluene-d8                                                  | 97.0     | %     |      | 70-130      |       |               |    |
| 4-Bromofluorobenzene                                        | 96.0     | %     |      | 70-130      |       |               |    |
| Dibromofluoromethane                                        | 97.0     | %     |      | 70-130      |       |               |    |
| Blank Analysis for sample(s) 04-07,10,13 (WG352480-6)       |          |       |      |             |       |               |    |
| Volatile Organics by EPA 8260B                              |          |       |      | 1           | 8260B | 0210 10:48 PD |    |
| 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 |             |       |               |    |

**ALPHA ANALYTICAL**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0901543

Continued

| PARAMETER                                             | RESULT | UNITS | RDL  | REF METHOD | DATE | ID            |
|-------------------------------------------------------|--------|-------|------|------------|------|---------------|
|                                                       |        |       |      |            | PREP | ANAL          |
| Blank Analysis for sample(s) 04-07,10,13 (WG352480-6) |        |       |      |            |      |               |
| Volatile Organics by EPA 8260B cont'd                 |        |       |      | 1 8260B    |      | 0210 10:48 PD |
| 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  |            |      |               |
| 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 |            |      |               |

**ALPHA ANALYTICAL**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0901543

Continued

| PARAMETER                                             | RESULT   | UNITS | RDL         | REF METHOD | DATE | ID            |
|-------------------------------------------------------|----------|-------|-------------|------------|------|---------------|
|                                                       |          |       |             |            | PREP | ANAL          |
| Blank Analysis for sample(s) 04-07,10,13 (WG352480-6) |          |       |             |            |      |               |
| Volatile Organics by EPA 8260B cont'd                 |          |       |             | 1 8260B    |      | 0210 10:48 PD |
| Isopropylbenzene                                      | ND       | ug/l  | 0.50        |            |      |               |
| p-Isopropyltoluene                                    | ND       | ug/l  | 0.50        |            |      |               |
| Naphthalene                                           | ND       | ug/l  | 2.5         |            |      |               |
| 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         |            |      |               |
| Surrogate(s)                                          | Recovery |       | QC Criteria |            |      |               |
| 1,2-Dichloroethane-d4                                 | 87.0     | %     | 70-130      |            |      |               |
| Toluene-d8                                            | 98.0     | %     | 70-130      |            |      |               |
| 4-Bromofluorobenzene                                  | 97.0     | %     | 70-130      |            |      |               |
| Dibromofluoromethane                                  | 92.0     | %     | 70-130      |            |      |               |
| Blank Analysis for sample(s) 12 (WG352480-9)          |          |       |             |            |      |               |
| Volatile Organics by EPA 8260B                        |          |       |             | 1 8260B    |      | 0211 08:37 PD |
| 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        |            |      |               |

**ALPHA ANALYTICAL**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0901543

Continued

| PARAMETER                                    | RESULT | UNITS | RDL  | REF METHOD | DATE |               | ID |
|----------------------------------------------|--------|-------|------|------------|------|---------------|----|
|                                              |        |       |      |            | PREP | ANAL          |    |
| Blank Analysis for sample(s) 12 (WG352480-9) |        |       |      |            |      |               |    |
| Volatile Organics by EPA 8260B cont'd        |        |       |      | 1 8260B    |      | 0211 08:37 PD |    |
| 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  |            |      |               |    |
| 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  |            |      |               |    |
| 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  |            |      |               |    |

ALPHA ANALYTICAL  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0901543

Continued

| PARAMETER                                    | RESULT   | UNITS | RDL | REF METHOD  | DATE |      | ID            |
|----------------------------------------------|----------|-------|-----|-------------|------|------|---------------|
|                                              |          |       |     |             | PREP | ANAL |               |
| Blank Analysis for sample(s) 12 (WG352480-9) |          |       |     |             |      |      |               |
| Volatile Organics by EPA 8260B cont'd        |          |       |     | 1 8260B     |      |      | 0211 08:37 PD |
| Surrogate(s)                                 | Recovery |       |     | QC Criteria |      |      |               |
| 1,2-Dichloroethane-d4                        | 90.0     | %     |     | 70-130      |      |      |               |
| Toluene-d8                                   | 98.0     | %     |     | 70-130      |      |      |               |
| 4-Bromofluorobenzene                         | 94.0     | %     |     | 70-130      |      |      |               |
| Dibromofluoromethane                         | 95.0     | %     |     | 70-130      |      |      |               |

**ALPHA ANALYTICAL  
ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.  
H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. 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 Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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 Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

## Certificate/Approval Program Summary

Last revised December 31, 2008

The following list includes only those analytes/methods for which certification/approval is 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.

*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: MA0086.

*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.**

*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.**

*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, 4500CI-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, 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.)

*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, 3540C, 3545, 3550B, 3580A, 5035L, 5035H.)

**New York Department of Health Certificate/Lab ID: 11148.**

*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, SM6251B.)

*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, SM4500CI-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, SM2540B, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-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, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

*Analytical Services Protocol:* CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

**Rhode Island Department of Health Certificate/Lab ID: LAO00065.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

**Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. Registered Laboratory.**



inv-ke not simplified

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO.

☐ Yes ☒ No Are MCP Analytical Methods Required?  
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

(Please specify below)

### Sample Specific Comments

| ALPHA Lab ID<br>(Lab Use Only) | Sample ID       | Collection |      | Sample Matrix | Sampler's Initials |   |  |  | (Please specify below)<br>Sample Specific Comments |
|--------------------------------|-----------------|------------|------|---------------|--------------------|---|--|--|----------------------------------------------------|
|                                |                 | Date       | Time |               |                    |   |  |  |                                                    |
| 01543                          | MW-25           | 2/1/09     | 1000 | GM            | JTB                | X |  |  |                                                    |
|                                | MW-12S          |            | 1025 |               |                    | X |  |  |                                                    |
|                                | MW-12L          |            | 1050 |               |                    | X |  |  |                                                    |
|                                | MW-3I           |            | 1105 |               |                    | X |  |  |                                                    |
|                                | MW-20S          |            | 1145 |               |                    | X |  |  |                                                    |
|                                | MW-20D          |            | 1155 |               |                    | X |  |  |                                                    |
|                                | MW-24           |            | 1230 |               |                    | X |  |  |                                                    |
|                                | <del>MW-6</del> |            |      |               |                    | X |  |  |                                                    |
|                                | MW-19 I         |            | 100  |               |                    | X |  |  |                                                    |
|                                | MW-19 S         |            | 130  |               |                    | X |  |  |                                                    |

**PLEASE ANSWER QUESTIONS ABOVE!**

# IS YOUR PROJECT MAMCP or CT RCP?

Relinquished By:

Date/Time

Received By: \_\_\_\_\_

Date/Time

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.



## **APPENDIX B**



## ANALYTICAL REPORT

Lab Number: L0901571

Client: Triumvirate Environmental, Inc.  
61 Inner Belt Road  
Somerville, MA 02143

ATTN: Craig Sasse

Project Name: TEI - ASTORIA

Project Number: 750

Report Date: 02/13/09

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.

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

| <b>Alpha Sample ID</b> | <b>Client ID</b> | <b>Sample Location</b> |
|------------------------|------------------|------------------------|
| L0901571-01            | SGP-2            | ASTORIA, NY            |
| L0901571-02            | SGP-6            | ASTORIA, NY            |
| L0901571-03            | SGP-4            | ASTORIA, NY            |
| L0901571-04            | SGP-9            | ASTORIA, NY            |
| L0901571-05            | SGP-12           | ASTORIA, NY            |
| L0901571-06            | SGP-11           | ASTORIA, NY            |

**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

### 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.

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.

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#### TO15-LL

L0901571-01 required re-analysis on a 21.17x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range. The results for Acetone should be considered estimated due to co-elution with a non-target peak.

L0901571-02 results for Propylene should be considered estimated due to co-elution with a non-target peak. The presence of Acetone could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L0901571-03 results for Propylene should be considered estimated due to co-elution with a non-target peak. The presence of Acetone could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound. The sample required re-analysis on a 10x dilution in

**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

**Case Narrative (continued)**

order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

L0901571-04 results for Acetone should be considered estimated due to co-elution with a non-target peak.

The sample required re-analysis on a 10x dilution in order to quantitate the sample within the calibration range.

The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

L0901571-05 required re-analysis on a 10x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

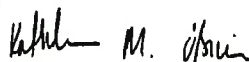
L0901571-06 and WG352667-4 Duplicate results for Acetone and Propylene should be considered estimated due to co-elution with a non-target peak. The sample required re-analysis on a 137.9x dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

WG352667-4: The relative percent difference for Acetone is above the RPD limit of 25% at 26%. This compound represented less than 10% of the compounds detected, therefore no further action was taken.

The WG352667-2 LCS recoveries for trans-1,3-Dichloropropene and Hexachlorobutadiene are outside the 70%-130% acceptance limit. The LCS was within overall method allowances, therefore the analysis proceeded.

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: 02/13/09

**AIR**

Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-01  
 Client ID: SGP-2  
 Sample Location: ASTORIA, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 02/12/09 02:22  
 Analyst: RY

Date Collected: 02/05/09 08:00  
 Date Received: 02/06/09  
 Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 1,1,1-Trichloroethane                       | >100    | 0.2   | >546    | 1.09  |           | 1               |
| 1,1,2,2-Tetrachloroethane                   | ND      | 0.200 | ND      | 1.37  |           | 1               |
| 1,1,2-Trichloroethane                       | 0.242   | 0.200 | 1.32    | 1.09  |           | 1               |
| 1,1-Dichloroethane                          | >100    | 0.2   | >404    | 0.809 |           | 1               |
| 1,1-Dichloroethene                          | 1.80    | 0.200 | 7.13    | 0.792 |           | 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-Dibromoethane                           | ND      | 0.200 | ND      | 1.54  |           | 1               |
| 1,2-Dichlorobenzene                         | ND      | 0.200 | ND      | 1.20  |           | 1               |
| 1,2-Dichloroethane                          | 0.920   | 0.200 | 3.72    | 0.809 |           | 1               |
| 1,2-Dichloropropane                         | 0.395   | 0.200 | 1.82    | 0.924 |           | 1               |
| 1,3,5-Trimethybenzene                       | 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                                  | 0.266   | 0.200 | 0.783   | 0.589 |           | 1               |
| 2-Hexanone                                  | ND      | 0.200 | ND      | 0.819 |           | 1               |
| 3-Chloropropene                             | ND      | 0.200 | ND      | 0.626 |           | 1               |
| 4-Ethyltoluene                              | ND      | 0.200 | ND      | 0.982 |           | 1               |
| Acetone                                     | 6.98    | 0.500 | 16.6    | 1.19  |           | 1               |
| Benzene                                     | 0.245   | 0.200 | 0.782   | 0.638 |           | 1               |
| Benzyl chloride                             | ND      | 0.200 | ND      | 1.03  |           | 1               |
| Bromodichloromethane                        | ND      | 0.200 | ND      | 1.34  |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-01

Date Collected: 02/05/09 08:00

Client ID: SGP-2

Date Received: 02/06/09

Sample Location: ASTORIA, NY

Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 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                                | 0.576   | 0.200 | 1.52    | 0.527 |           | 1               |
| Chloroform                                  | >100    | 0.2   | >488    | 0.976 |           | 1               |
| Chloromethane                               | ND      | 0.200 | ND      | 0.413 |           | 1               |
| cis-1,2-Dichloroethene                      | >100    | 0.2   | >396    | 0.792 |           | 1               |
| cis-1,3-Dichloropropene                     | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Cyclohexane                                 | 2.13    | 0.200 | 7.31    | 0.688 |           | 1               |
| Dibromochloromethane                        | ND      | 0.200 | ND      | 1.70  |           | 1               |
| Dichlorodifluoromethane                     | 0.556   | 0.200 | 2.74    | 0.988 |           | 1               |
| Ethanol                                     | 5.02    | 2.50  | 9.44    | 4.71  |           | 1               |
| Ethyl Acetate                               | ND      | 0.500 | ND      | 1.80  |           | 1               |
| Ethylbenzene                                | 0.744   | 0.200 | 3.23    | 0.868 |           | 1               |
| Freon-113                                   | 5.26    | 0.200 | 40.3    | 1.53  |           | 1               |
| Freon-114                                   | ND      | 0.200 | ND      | 1.40  |           | 1               |
| Hexachlorobutadiene                         | ND      | 0.200 | ND      | 2.13  |           | 1               |
| Isopropanol                                 | 0.552   | 0.500 | 1.36    | 1.23  |           | 1               |
| Methylene chloride                          | 2.21    | 0.500 | 7.68    | 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                                  | 3.26    | 0.400 | 14.2    | 1.74  |           | 1               |
| o-Xylene                                    | 0.620   | 0.200 | 2.69    | 0.868 |           | 1               |
| Heptane                                     | ND      | 0.200 | ND      | 0.819 |           | 1               |
| n-Hexane                                    | 0.369   | 0.200 | 1.30    | 0.704 |           | 1               |
| Propylene                                   | ND      | 0.200 | ND      | 0.344 |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-01

Date Collected: 02/05/09 08:00

Client ID: SGP-2

Date Received: 02/06/09

Sample Location: ASTORIA, NY

Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| Styrene                                     | ND      | 0.200 | ND      | 0.851 |           | 1               |
| Tetrachloroethene                           | >100    | 0.2   | >678    | 1.36  |           | 1               |
| Tetrahydrofuran                             | ND      | 0.200 | ND      | 0.589 |           | 1               |
| Toluene                                     | 0.669   | 0.200 | 2.52    | 0.753 |           | 1               |
| trans-1,2-Dichloroethene                    | 20.1    | 0.200 | 79.6    | 0.792 |           | 1               |
| trans-1,3-Dichloropropene                   | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Trichloroethene                             | >100    | 0.2   | >537    | 1.07  |           | 1               |
| Trichlorofluoromethane                      | 1.90    | 0.200 | 10.7    | 1.12  |           | 1               |
| Vinyl acetate                               | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Vinyl bromide                               | ND      | 0.200 | ND      | 0.874 |           | 1               |
| Vinyl chloride                              | 0.443   | 0.200 | 1.13    | 0.511 |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-01 R2  
 Client ID: SGP-2  
 Sample Location: ASTORIA, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 02/12/09 13:20  
 Analyst: RY

Date Collected: 02/05/09 08:00  
 Date Received: 02/06/09  
 Field Prep: Not Specified

| Parameter                                   | ppbV    |      | ug/m3   |      | Qualifier | Dilution Factor |
|---------------------------------------------|---------|------|---------|------|-----------|-----------------|
|                                             | Results | RDL  | Results | RDL  |           |                 |
| Low Level Volatile Organic Compounds in Air |         |      |         |      |           |                 |
| 1,1,1-Trichloroethane                       | 187     | 4.23 | 1020    | 23.1 |           | 21.17           |
| 1,1-Dichloroethane                          | 232     | 4.23 | 937     | 17.1 |           | 21.17           |
| Chloroform                                  | 121     | 4.23 | 591     | 20.6 |           | 21.17           |
| cis-1,2-Dichloroethene                      | 1190    | 4.23 | 4730    | 16.8 |           | 21.17           |
| Tetrachloroethene                           | 1320    | 4.23 | 8980    | 28.7 |           | 21.17           |
| Trichloroethene                             | 1290    | 4.23 | 6920    | 22.7 |           | 21.17           |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-02  
 Client ID: SGP-6  
 Sample Location: ASTORIA, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 02/12/09 03:01  
 Analyst: RY

Date Collected: 02/05/09 08:45  
 Date Received: 02/06/09  
 Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 1,1,1-Trichloroethane                       | 2.87    | 0.200 | 15.6    | 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                          | 3.80    | 0.200 | 15.4    | 0.809 |           | 1               |
| 1,1-Dichloroethene                          | 0.302   | 0.200 | 1.20    | 0.792 |           | 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-Dibromoethane                           | ND      | 0.200 | ND      | 1.54  |           | 1               |
| 1,2-Dichlorobenzene                         | ND      | 0.200 | ND      | 1.20  |           | 1               |
| 1,2-Dichloroethane                          | 0.201   | 0.200 | 0.812   | 0.809 |           | 1               |
| 1,2-Dichloropropane                         | ND      | 0.200 | ND      | 0.924 |           | 1               |
| 1,3,5-Trimethybenzene                       | 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                                  | 0.410   | 0.200 | 1.21    | 0.589 |           | 1               |
| 2-Hexanone                                  | ND      | 0.200 | ND      | 0.819 |           | 1               |
| 3-Chloropropene                             | ND      | 0.200 | ND      | 0.626 |           | 1               |
| 4-Ethyltoluene                              | ND      | 0.200 | ND      | 0.982 |           | 1               |
| Acetone                                     | ND      | 0.500 | ND      | 1.19  |           | 1               |
| Benzene                                     | 0.240   | 0.200 | 0.766   | 0.638 |           | 1               |
| Benzyl chloride                             | ND      | 0.200 | ND      | 1.03  |           | 1               |
| Bromodichloromethane                        | ND      | 0.200 | ND      | 1.34  |           | 1               |



**Project Name:** TEI - ASTORIA**Lab Number:** L0901571**Project Number:** 750**Report Date:** 02/13/09**SAMPLE RESULTS****Lab ID:** L0901571-04 R**Date Collected:** 02/05/09 09:50**Client ID:** SGP-9**Date Received:** 02/06/09**Sample Location:** ASTORIA, NY**Field Prep:** Not Specified**Matrix:** Soil\_Vapor**Analytical Method:** 48,TO-15**Analytical Date:** 02/12/09 10:55**Analyst:** RY

| Parameter                                   | ppbV    |      | ug/m3   |      | Qualifier | Dilution Factor |
|---------------------------------------------|---------|------|---------|------|-----------|-----------------|
|                                             | Results | RDL  | Results | RDL  |           |                 |
| Low Level Volatile Organic Compounds in Air |         |      |         |      |           |                 |
| cis-1,2-Dichloroethene                      | 653     | 2.00 | 2590    | 7.92 |           | 10              |
| Tetrachloroethene                           | 948     | 2.00 | 6430    | 13.6 |           | 10              |
| Trichloroethene                             | 811     | 2.00 | 4350    | 10.7 |           | 10              |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-04  
 Client ID: SGP-9  
 Sample Location: ASTORIA, NY

Date Collected: 02/05/09 09:50  
 Date Received: 02/06/09  
 Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| Styrene                                     | ND      | 0.200 | ND      | 0.851 |           | 1               |
| Tetrachloroethene                           | >100    | 0.2   | >678    | 1.36  |           | 1               |
| Tetrahydrofuran                             | ND      | 0.200 | ND      | 0.589 |           | 1               |
| Toluene                                     | ND      | 0.200 | ND      | 0.753 |           | 1               |
| trans-1,2-Dichloroethene                    | 45.1    | 0.200 | 179     | 0.792 |           | 1               |
| trans-1,3-Dichloropropene                   | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Trichloroethene                             | >100    | 0.2   | >537    | 1.07  |           | 1               |
| Trichlorofluoromethane                      | 0.516   | 0.200 | 2.90    | 1.12  |           | 1               |
| Vinyl acetate                               | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Vinyl bromide                               | ND      | 0.200 | ND      | 0.874 |           | 1               |
| Vinyl chloride                              | 1.25    | 0.200 | 3.18    | 0.511 |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-04

Date Collected: 02/05/09 09:50

Client ID: SGP-9

Date Received: 02/06/09

Sample Location: ASTORIA, NY

Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 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                                | 0.342   | 0.200 | 0.901   | 0.527 |           | 1               |
| Chloroform                                  | 94.8    | 0.200 | 463     | 0.976 |           | 1               |
| Chloromethane                               | ND      | 0.200 | ND      | 0.413 |           | 1               |
| cis-1,2-Dichloroethene                      | >100    | 0.2   | >396    | 0.792 |           | 1               |
| cis-1,3-Dichloropropene                     | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Cyclohexane                                 | 0.806   | 0.200 | 2.77    | 0.688 |           | 1               |
| Dibromochloromethane                        | ND      | 0.200 | ND      | 1.70  |           | 1               |
| Dichlorodifluoromethane                     | 0.625   | 0.200 | 3.09    | 0.988 |           | 1               |
| Ethanol                                     | ND      | 2.50  | ND      | 4.71  |           | 1               |
| Ethyl Acetate                               | ND      | 0.500 | ND      | 1.80  |           | 1               |
| Ethylbenzene                                | ND      | 0.200 | ND      | 0.868 |           | 1               |
| Freon-113                                   | 0.676   | 0.200 | 5.18    | 1.53  |           | 1               |
| Freon-114                                   | ND      | 0.200 | ND      | 1.40  |           | 1               |
| Hexachlorobutadiene                         | ND      | 0.200 | ND      | 2.13  |           | 1               |
| Isopropanol                                 | 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      | 0.400 | ND      | 1.74  |           | 1               |
| o-Xylene                                    | ND      | 0.200 | ND      | 0.868 |           | 1               |
| Heptane                                     | ND      | 0.200 | ND      | 0.819 |           | 1               |
| n-Hexane                                    | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Propylene                                   | ND      | 0.200 | ND      | 0.344 |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-04  
 Client ID: SGP-9  
 Sample Location: ASTORIA, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 02/12/09 04:17  
 Analyst: RY

Date Collected: 02/05/09 09:50  
 Date Received: 02/06/09  
 Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 1,1,1-Trichloroethane                       | 15.6    | 0.200 | 85.3    | 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                          | 61.0    | 0.200 | 247     | 0.809 |           | 1               |
| 1,1-Dichloroethene                          | 0.305   | 0.200 | 1.21    | 0.792 |           | 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-Dibromoethane                           | ND      | 0.200 | ND      | 1.54  |           | 1               |
| 1,2-Dichlorobenzene                         | ND      | 0.200 | ND      | 1.20  |           | 1               |
| 1,2-Dichloroethane                          | 0.276   | 0.200 | 1.12    | 0.809 |           | 1               |
| 1,2-Dichloropropane                         | 0.317   | 0.200 | 1.46    | 0.924 |           | 1               |
| 1,3,5-Trimethybenzene                       | 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               |
| 2-Hexanone                                  | ND      | 0.200 | ND      | 0.819 |           | 1               |
| 3-Chloropropene                             | ND      | 0.200 | ND      | 0.626 |           | 1               |
| 4-Ethyltoluene                              | ND      | 0.200 | ND      | 0.982 |           | 1               |
| Acetone                                     | 1.52    | 0.500 | 3.60    | 1.19  |           | 1               |
| Benzene                                     | ND      | 0.200 | ND      | 0.638 |           | 1               |
| Benzyl chloride                             | ND      | 0.200 | ND      | 1.03  |           | 1               |
| Bromodichloromethane                        | ND      | 0.200 | ND      | 1.34  |           | 1               |



**Project Name:** TEI - ASTORIA**Lab Number:** L0901571**Project Number:** 750**Report Date:** 02/13/09**SAMPLE RESULTS****Lab ID:** L0901571-03 R**Date Collected:** 02/05/09 09:15**Client ID:** SGP-4**Date Received:** 02/06/09**Sample Location:** ASTORIA, NY**Field Prep:** Not Specified**Matrix:** Soil\_Vapor**Analytical Method:** 48,TO-15**Analytical Date:** 02/12/09 10:19**Analyst:** RY

| Parameter                                   | ppbV    |      | ug/m3   |      | Qualifier | Dilution Factor |
|---------------------------------------------|---------|------|---------|------|-----------|-----------------|
|                                             | Results | RDL  | Results | RDL  |           |                 |
| Low Level Volatile Organic Compounds in Air |         |      |         |      |           |                 |
| cis-1,2-Dichloroethene                      | 354     | 2.00 | 1400    | 7.92 |           | 10              |
| Tetrachloroethene                           | 402     | 2.00 | 2720    | 13.6 |           | 10              |
| Trichloroethene                             | 312     | 2.00 | 1680    | 10.7 |           | 10              |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-03

Date Collected: 02/05/09 09:15

Client ID: SGP-4

Date Received: 02/06/09

Sample Location: ASTORIA, NY

Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| Styrene                                     | ND      | 0.200 | ND      | 0.851 |           | 1               |
| Tetrachloroethene                           | >100    | 0.2   | >678    | 1.36  |           | 1               |
| Tetrahydrofuran                             | ND      | 0.200 | ND      | 0.589 |           | 1               |
| Toluene                                     | 0.567   | 0.200 | 2.14    | 0.753 |           | 1               |
| trans-1,2-Dichloroethene                    | 4.73    | 0.200 | 18.7    | 0.792 |           | 1               |
| trans-1,3-Dichloropropene                   | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Trichloroethene                             | >100    | 0.2   | >537    | 1.07  |           | 1               |
| Trichlorofluoromethane                      | 0.317   | 0.200 | 1.78    | 1.12  |           | 1               |
| Vinyl acetate                               | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Vinyl bromide                               | ND      | 0.200 | ND      | 0.874 |           | 1               |
| Vinyl chloride                              | 1.51    | 0.200 | 3.85    | 0.511 |           | 1               |



**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

### SAMPLE RESULTS

**Lab ID:** L0901571-03  
**Client ID:** SGP-4  
**Sample Location:** ASTORIA, NY

**Date Collected:** 02/05/09 09:15  
**Date Received:** 02/06/09  
**Field Prep:** Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 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                                | 0.220   | 0.200 | 0.581   | 0.527 |           | 1               |
| Chloroform                                  | 30.6    | 0.200 | 149     | 0.976 |           | 1               |
| Chloromethane                               | 0.208   | 0.200 | 0.430   | 0.413 |           | 1               |
| cis-1,2-Dichloroethene                      | >100    | 0.2   | >396    | 0.792 |           | 1               |
| cis-1,3-Dichloropropene                     | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Cyclohexane                                 | 2.78    | 0.200 | 9.56    | 0.688 |           | 1               |
| Dibromochloromethane                        | ND      | 0.200 | ND      | 1.70  |           | 1               |
| Dichlorodifluoromethane                     | ND      | 0.200 | ND      | 0.988 |           | 1               |
| Ethanol                                     | ND      | 2.50  | ND      | 4.71  |           | 1               |
| Ethyl Acetate                               | ND      | 0.500 | ND      | 1.80  |           | 1               |
| Ethylbenzene                                | ND      | 0.200 | ND      | 0.868 |           | 1               |
| Freon-113                                   | 2.72    | 0.200 | 20.9    | 1.53  |           | 1               |
| Freon-114                                   | ND      | 0.200 | ND      | 1.40  |           | 1               |
| Hexachlorobutadiene                         | ND      | 0.200 | ND      | 2.13  |           | 1               |
| Isopropanol                                 | ND      | 0.500 | ND      | 1.23  |           | 1               |
| Methylene chloride                          | 0.697   | 0.500 | 2.42    | 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      | 0.400 | ND      | 1.74  |           | 1               |
| o-Xylene                                    | ND      | 0.200 | ND      | 0.868 |           | 1               |
| Heptane                                     | ND      | 0.200 | ND      | 0.819 |           | 1               |
| n-Hexane                                    | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Propylene                                   | 0.437   | 0.200 | 0.752   | 0.344 |           | 1               |



**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

### SAMPLE RESULTS

**Lab ID:** L0901571-03  
**Client ID:** SGP-4  
**Sample Location:** ASTORIA, NY  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 02/12/09 03:40  
**Analyst:** RY

**Date Collected:** 02/05/09 09:15  
**Date Received:** 02/06/09  
**Field Prep:** Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 1,1,1-Trichloroethane                       | 15.4    | 0.200 | 84.1    | 1.09  |           | 1               |
| 1,1,2,2-Tetrachloroethane                   | ND      | 0.200 | ND      | 1.37  |           | 1               |
| 1,1,2-Trichloroethane                       | 0.297   | 0.200 | 1.62    | 1.09  |           | 1               |
| 1,1-Dichloroethane                          | 13.4    | 0.200 | 54.4    | 0.809 |           | 1               |
| 1,1-Dichloroethene                          | ND      | 0.200 | ND      | 0.792 |           | 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-Dibromoethane                           | ND      | 0.200 | ND      | 1.54  |           | 1               |
| 1,2-Dichlorobenzene                         | ND      | 0.200 | ND      | 1.20  |           | 1               |
| 1,2-Dichloroethane                          | 0.329   | 0.200 | 1.33    | 0.809 |           | 1               |
| 1,2-Dichloropropane                         | ND      | 0.200 | ND      | 0.924 |           | 1               |
| 1,3,5-Trimethybenzene                       | 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               |
| 2-Hexanone                                  | ND      | 0.200 | ND      | 0.819 |           | 1               |
| 3-Chloropropene                             | ND      | 0.200 | ND      | 0.626 |           | 1               |
| 4-Ethyltoluene                              | ND      | 0.200 | ND      | 0.982 |           | 1               |
| Acetone                                     | ND      | 0.500 | ND      | 1.19  |           | 1               |
| Benzene                                     | 0.331   | 0.200 | 1.06    | 0.638 |           | 1               |
| Benzyl chloride                             | ND      | 0.200 | ND      | 1.03  |           | 1               |
| Bromodichloromethane                        | ND      | 0.200 | ND      | 1.34  |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-02  
 Client ID: SGP-6  
 Sample Location: ASTORIA, NY

Date Collected: 02/05/09 08:45  
 Date Received: 02/06/09  
 Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| Styrene                                     | ND      | 0.200 | ND      | 0.851 |           | 1               |
| Tetrachloroethene                           | 87.1    | 0.200 | 590     | 1.36  |           | 1               |
| Tetrahydrofuran                             | ND      | 0.200 | ND      | 0.589 |           | 1               |
| Toluene                                     | 0.717   | 0.200 | 2.70    | 0.753 |           | 1               |
| trans-1,2-Dichloroethene                    | 0.210   | 0.200 | 0.834   | 0.792 |           | 1               |
| trans-1,3-Dichloropropene                   | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Trichloroethene                             | 74.0    | 0.200 | 398     | 1.07  |           | 1               |
| Trichlorofluoromethane                      | 1.41    | 0.200 | 7.91    | 1.12  |           | 1               |
| Vinyl acetate                               | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Vinyl bromide                               | ND      | 0.200 | ND      | 0.874 |           | 1               |
| Vinyl chloride                              | 1.08    | 0.200 | 2.75    | 0.511 |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-02

Date Collected: 02/05/09 08:45

Client ID: SGP-6

Date Received: 02/06/09

Sample Location: ASTORIA, NY

Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 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                                  | 16.2    | 0.200 | 79.3    | 0.976 |           | 1               |
| Chloromethane                               | 0.471   | 0.200 | 0.971   | 0.413 |           | 1               |
| cis-1,2-Dichloroethene                      | 37.0    | 0.200 | 147     | 0.792 |           | 1               |
| cis-1,3-Dichloropropene                     | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Cyclohexane                                 | 0.528   | 0.200 | 1.82    | 0.688 |           | 1               |
| Dibromochloromethane                        | ND      | 0.200 | ND      | 1.70  |           | 1               |
| Dichlorodifluoromethane                     | 0.531   | 0.200 | 2.62    | 0.988 |           | 1               |
| Ethanol                                     | ND      | 2.50  | ND      | 4.71  |           | 1               |
| Ethyl Acetate                               | ND      | 0.500 | ND      | 1.80  |           | 1               |
| Ethylbenzene                                | ND      | 0.200 | ND      | 0.868 |           | 1               |
| Freon-113                                   | 2.47    | 0.200 | 18.9    | 1.53  |           | 1               |
| Freon-114                                   | ND      | 0.200 | ND      | 1.40  |           | 1               |
| Hexachlorobutadiene                         | ND      | 0.200 | ND      | 2.13  |           | 1               |
| Isopropanol                                 | 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                     | 0.371   | 0.200 | 1.34    | 0.720 |           | 1               |
| p/m-Xylene                                  | ND      | 0.400 | ND      | 1.74  |           | 1               |
| o-Xylene                                    | ND      | 0.200 | ND      | 0.868 |           | 1               |
| Heptane                                     | ND      | 0.200 | ND      | 0.819 |           | 1               |
| n-Hexane                                    | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Propylene                                   | 0.497   | 0.200 | 0.855   | 0.344 |           | 1               |



**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

**SAMPLE RESULTS**

**Lab ID:** L0901571-05  
**Client ID:** SGP-12  
**Sample Location:** ASTORIA, NY  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 02/12/09 04:54  
**Analyst:** RY

**Date Collected:** 02/05/09 10:30  
**Date Received:** 02/06/09  
**Field Prep:** Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 1,1,1-Trichloroethane                       | 20.8    | 0.200 | 114     | 1.09  |           | 1               |
| 1,1,2,2-Tetrachloroethane                   | ND      | 0.200 | ND      | 1.37  |           | 1               |
| 1,1,2-Trichloroethane                       | 0.203   | 0.200 | 1.11    | 1.09  |           | 1               |
| 1,1-Dichloroethane                          | 6.64    | 0.200 | 26.9    | 0.809 |           | 1               |
| 1,1-Dichloroethene                          | 0.884   | 0.200 | 3.50    | 0.792 |           | 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-Dibromoethane                           | ND      | 0.200 | ND      | 1.54  |           | 1               |
| 1,2-Dichlorobenzene                         | ND      | 0.200 | ND      | 1.20  |           | 1               |
| 1,2-Dichloroethane                          | 0.493   | 0.200 | 1.99    | 0.809 |           | 1               |
| 1,2-Dichloropropane                         | ND      | 0.200 | ND      | 0.924 |           | 1               |
| 1,3,5-Trimethybenzene                       | 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                                  | 0.229   | 0.200 | 0.675   | 0.589 |           | 1               |
| 2-Hexanone                                  | ND      | 0.200 | ND      | 0.819 |           | 1               |
| 3-Chloropropene                             | ND      | 0.200 | ND      | 0.626 |           | 1               |
| 4-Ethyltoluene                              | ND      | 0.200 | ND      | 0.982 |           | 1               |
| Acetone                                     | 3.55    | 0.500 | 8.43    | 1.19  |           | 1               |
| Benzene                                     | 0.223   | 0.200 | 0.712   | 0.638 |           | 1               |
| Benzyl chloride                             | ND      | 0.200 | ND      | 1.03  |           | 1               |
| Bromodichloromethane                        | ND      | 0.200 | ND      | 1.34  |           | 1               |



**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

**SAMPLE RESULTS**

**Lab ID:** L0901571-05  
**Client ID:** SGP-12  
**Sample Location:** ASTORIA, NY

**Date Collected:** 02/05/09 10:30  
**Date Received:** 02/06/09  
**Field Prep:** Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 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                                  | 3.69    | 0.200 | 18.0    | 0.976 |           | 1               |
| Chloromethane                               | ND      | 0.200 | ND      | 0.413 |           | 1               |
| cis-1,2-Dichloroethene                      | >100    | 0.2   | >396    | 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                     | 0.419   | 0.200 | 2.07    | 0.988 |           | 1               |
| Ethanol                                     | 3.50    | 2.50  | 6.58    | 4.71  |           | 1               |
| Ethyl Acetate                               | ND      | 0.500 | ND      | 1.80  |           | 1               |
| Ethylbenzene                                | 0.371   | 0.200 | 1.61    | 0.868 |           | 1               |
| Freon-113                                   | 0.370   | 0.200 | 2.83    | 1.53  |           | 1               |
| Freon-114                                   | ND      | 0.200 | ND      | 1.40  |           | 1               |
| Hexachlorobutadiene                         | ND      | 0.200 | ND      | 2.13  |           | 1               |
| Isopropanol                                 | ND      | 0.500 | ND      | 1.23  |           | 1               |
| Methylene chloride                          | 1.57    | 0.500 | 5.46    | 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                                  | 1.55    | 0.400 | 6.74    | 1.74  |           | 1               |
| o-Xylene                                    | 0.302   | 0.200 | 1.31    | 0.868 |           | 1               |
| Heptane                                     | ND      | 0.200 | ND      | 0.819 |           | 1               |
| n-Hexane                                    | 0.235   | 0.200 | 0.828   | 0.704 |           | 1               |
| Propylene                                   | ND      | 0.200 | ND      | 0.344 |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-05

Date Collected: 02/05/09 10:30

Client ID: SGP-12

Date Received: 02/06/09

Sample Location: ASTORIA, NY

Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds In Air |         |       |         |       |           |                 |
| Styrene                                     | ND      | 0.200 | ND      | 0.851 |           | 1               |
| Tetrachloroethene                           | >100    | 0.2   | >678    | 1.36  |           | 1               |
| Tetrahydrofuran                             | ND      | 0.200 | ND      | 0.589 |           | 1               |
| Toluene                                     | 0.426   | 0.200 | 1.60    | 0.753 |           | 1               |
| trans-1,2-Dichloroethene                    | 0.821   | 0.200 | 3.25    | 0.792 |           | 1               |
| trans-1,3-Dichloropropene                   | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Trichloroethene                             | >100    | 0.2   | >537    | 1.07  |           | 1               |
| Trichlorofluoromethane                      | 0.210   | 0.200 | 1.18    | 1.12  |           | 1               |
| Vinyl acetate                               | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Vinyl bromide                               | ND      | 0.200 | ND      | 0.874 |           | 1               |
| Vinyl chloride                              | 1.66    | 0.200 | 4.23    | 0.511 |           | 1               |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-05 R

Date Collected: 02/05/09 10:30

Client ID: SGP-12

Date Received: 02/06/09

Sample Location: ASTORIA, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 02/12/09 11:32

Analyst: RY

| Parameter                                   | ppbV    |      | ug/m3   |      | Qualifier | Dilution Factor |
|---------------------------------------------|---------|------|---------|------|-----------|-----------------|
|                                             | Results | RDL  | Results | RDL  |           |                 |
| Low Level Volatile Organic Compounds in Air |         |      |         |      |           |                 |
| cis-1,2-Dichloroethene                      | 101     | 2.00 | 400     | 7.92 |           | 10              |
| Tetrachloroethene                           | 495     | 2.00 | 3350    | 13.6 |           | 10              |
| Trichloroethene                             | 245     | 2.00 | 1310    | 10.7 |           | 10              |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## SAMPLE RESULTS

Lab ID: L0901571-06  
 Client ID: SGP-11  
 Sample Location: ASTORIA, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 02/12/09 05:33  
 Analyst: RY

Date Collected: 02/05/09 11:05  
 Date Received: 02/06/09  
 Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds In Air |         |       |         |       |           |                 |
| 1,1,1-Trichloroethane                       | >100    | 0.2   | >546    | 1.09  |           | 1               |
| 1,1,2,2-Tetrachloroethane                   | ND      | 0.200 | ND      | 1.37  |           | 1               |
| 1,1,2-Trichloroethane                       | 0.980   | 0.200 | 5.34    | 1.09  |           | 1               |
| 1,1-Dichloroethane                          | >100    | 0.2   | >404    | 0.809 |           | 1               |
| 1,1-Dichloroethene                          | 5.58    | 0.200 | 22.1    | 0.792 |           | 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-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-Trimethybenzene                       | 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                                  | 0.341   | 0.200 | 1.00    | 0.589 |           | 1               |
| 2-Hexanone                                  | ND      | 0.200 | ND      | 0.819 |           | 1               |
| 3-Chloropropene                             | ND      | 0.200 | ND      | 0.626 |           | 1               |
| 4-Ethyltoluene                              | ND      | 0.200 | ND      | 0.982 |           | 1               |
| Acetone                                     | 1.70    | 0.500 | 4.04    | 1.19  |           | 1               |
| Benzene                                     | 0.934   | 0.200 | 2.98    | 0.638 |           | 1               |
| Benzyl chloride                             | ND      | 0.200 | ND      | 1.03  |           | 1               |
| Bromodichloromethane                        | ND      | 0.200 | ND      | 1.34  |           | 1               |



Project Name: TEI - ASTORIA  
Project Number: 750

02130914:42  
Lab Number: L0901571  
Report Date: 02/13/09

### SAMPLE RESULTS

Lab ID: L0901571-06  
Client ID: SGP-11  
Sample Location: ASTORIA, NY

Date Collected: 02/05/09 11:05  
Date Received: 02/06/09  
Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| 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                               | 0.305   | 0.200 | 1.40    | 0.920 |           | 1               |
| Chloroethane                                | ND      | 0.200 | ND      | 0.527 |           | 1               |
| Chloroform                                  | 10.5    | 0.200 | 51.4    | 0.976 |           | 1               |
| Chloromethane                               | ND      | 0.200 | ND      | 0.413 |           | 1               |
| cis-1,2-Dichloroethene                      | >100    | 0.2   | >396    | 0.792 |           | 1               |
| cis-1,3-Dichloropropene                     | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Cyclohexane                                 | 7.39    | 0.200 | 25.4    | 0.688 |           | 1               |
| Dibromochloromethane                        | ND      | 0.200 | ND      | 1.70  |           | 1               |
| Dichlorodifluoromethane                     | 0.425   | 0.200 | 2.10    | 0.988 |           | 1               |
| Ethanol                                     | 4.81    | 2.50  | 9.05    | 4.71  |           | 1               |
| Ethyl Acetate                               | ND      | 0.500 | ND      | 1.80  |           | 1               |
| Ethylbenzene                                | 0.643   | 0.200 | 2.79    | 0.868 |           | 1               |
| Freon-113                                   | 14.2    | 0.200 | 108     | 1.53  |           | 1               |
| Freon-114                                   | ND      | 0.200 | ND      | 1.40  |           | 1               |
| Hexachlorobutadiene                         | ND      | 0.200 | ND      | 2.13  |           | 1               |
| Isopropanol                                 | 0.688   | 0.500 | 1.69    | 1.23  |           | 1               |
| Methylene chloride                          | 2.66    | 0.500 | 9.24    | 1.74  |           | 1               |
| 4-Methyl-2-pentanone                        | ND      | 0.200 | ND      | 0.819 |           | 1               |
| Methyl tert butyl ether                     | 2.33    | 0.200 | 8.39    | 0.720 |           | 1               |
| p/m-Xylene                                  | 2.77    | 0.400 | 12.0    | 1.74  |           | 1               |
| o-Xylene                                    | 0.606   | 0.200 | 2.63    | 0.868 |           | 1               |
| Heptane                                     | 0.204   | 0.200 | 0.834   | 0.819 |           | 1               |
| n-Hexane                                    | 0.816   | 0.200 | 2.87    | 0.704 |           | 1               |
| Propylene                                   | 0.788   | 0.200 | 1.35    | 0.344 |           | 1               |



Project Name: TEI - ASTORIA  
Project Number: 750

02130914:42

Lab Number: L0901571  
Report Date: 02/13/09

### SAMPLE RESULTS

Lab ID: L0901571-06  
Client ID: SGP-11  
Sample Location: ASTORIA, NY

Date Collected: 02/05/09 11:05  
Date Received: 02/06/09  
Field Prep: Not Specified

| Parameter                                   | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|---------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                             | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air |         |       |         |       |           |                 |
| Styrene                                     | ND      | 0.200 | ND      | 0.851 |           | 1               |
| Tetrachloroethene                           | >100    | 0.2   | >678    | 1.36  |           | 1               |
| Tetrahydrofuran                             | 0.493   | 0.200 | 1.45    | 0.589 |           | 1               |
| Toluene                                     | 0.723   | 0.200 | 2.72    | 0.753 |           | 1               |
| trans-1,2-Dichloroethene                    | 6.73    | 0.200 | 26.7    | 0.792 |           | 1               |
| trans-1,3-Dichloropropene                   | ND      | 0.200 | ND      | 0.907 |           | 1               |
| Trichloroethene                             | >100    | 0.2   | >537    | 1.07  |           | 1               |
| Trichlorofluoromethane                      | 0.232   | 0.200 | 1.30    | 1.12  |           | 1               |
| Vinyl acetate                               | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Vinyl bromide                               | ND      | 0.200 | ND      | 0.874 |           | 1               |
| Vinyl chloride                              | 99.8    | 0.200 | 255     | 0.511 |           | 1               |



Project Name: TEI - ASTORIA  
Project Number: 750

02130914:42

Lab Number: L0901571  
Report Date: 02/13/09

### SAMPLE RESULTS

Lab ID: L0901571-06 R2  
Client ID: SGP-11  
Sample Location: ASTORIA, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 02/12/09 13:56  
Analyst: RY

Date Collected: 02/05/09 11:05  
Date Received: 02/06/09  
Field Prep: Not Specified

| Parameter                                   | ppbV    |      | ug/m3   |     | Qualifier | Dilution Factor |
|---------------------------------------------|---------|------|---------|-----|-----------|-----------------|
|                                             | Results | RDL  | Results | RDL |           |                 |
| Low Level Volatile Organic Compounds in Air |         |      |         |     |           |                 |
| 1,1,1-Trichloroethane                       | 200     | 27.6 | 1090    | 150 |           | 137.9           |
| 1,1-Dichloroethane                          | 91.2    | 27.6 | 369     | 112 |           | 137.9           |
| cis-1,2-Dichloroethene                      | 1900    | 27.6 | 7520    | 109 |           | 137.9           |
| Tetrachloroethene                           | 8310    | 27.6 | 56300   | 187 |           | 137.9           |
| Trichloroethene                             | 3100    | 27.6 | 16600   | 148 |           | 137.9           |



Project Name: TEI - ASTORIA  
Project Number: 750

02130914:42  
Lab Number: L0901571  
Report Date: 02/13/09

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 48,TO-15  
Analytical Date: 02/11/09 20:09

| Parameter                                                                          | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|------------------------------------------------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                                                                    | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air for sample(s): 01-06 Batch: WG352667-3 |         |       |         |       |           |                 |
| 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               |
| 1,2,4-Trichlorobenzene                                                             | ND      | 0.200 | ND      | 1.48  |           | 1               |
| 1,2,4-Trimethylbenzene                                                             | ND      | 0.200 | ND      | 0.982 |           | 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               |
| 2-Hexanone                                                                         | ND      | 0.200 | ND      | 0.819 |           | 1               |
| 3-Chloropropene                                                                    | ND      | 0.200 | ND      | 0.626 |           | 1               |
| 4-Ethyltoluene                                                                     | ND      | 0.200 | ND      | 0.982 |           | 1               |
| Acetone                                                                            | ND      | 0.500 | ND      | 1.19  |           | 1               |
| Benzene                                                                            | ND      | 0.200 | ND      | 0.638 |           | 1               |
| Benzyl chloride                                                                    | ND      | 0.200 | ND      | 1.03  |           | 1               |
| Bromodichloromethane                                                               | ND      | 0.200 | ND      | 1.34  |           | 1               |



Project Name: TEI - ASTORIA  
Project Number: 750

02130914:42

Lab Number: L0901571  
Report Date: 02/13/09

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 48,TO-15  
Analytical Date: 02/11/09 20:09

| Parameter                                                                          | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|------------------------------------------------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                                                                    | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air for sample(s): 01-06 Batch: WG352667-3 |         |       |         |       |           |                 |
| 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               |
| Ethanol                                                                            | ND      | 2.50  | ND      | 4.71  |           | 1               |
| Ethyl Acetate                                                                      | ND      | 0.500 | ND      | 1.80  |           | 1               |
| Ethylbenzene                                                                       | ND      | 0.200 | ND      | 0.868 |           | 1               |
| Freon-113                                                                          | ND      | 0.200 | ND      | 1.53  |           | 1               |
| Freon-114                                                                          | ND      | 0.200 | ND      | 1.40  |           | 1               |
| Hexachlorobutadiene                                                                | ND      | 0.200 | ND      | 2.13  |           | 1               |
| Isopropanol                                                                        | 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      | 0.400 | ND      | 1.74  |           | 1               |
| o-Xylene                                                                           | ND      | 0.200 | ND      | 0.868 |           | 1               |



Project Name: TEI - ASTORIA  
Project Number: 750

02130914:42  
Lab Number: L0901571  
Report Date: 02/13/09

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 48,TO-15  
Analytical Date: 02/11/09 20:09

| Parameter                                                                          | ppbV    |       | ug/m3   |       | Qualifier | Dilution Factor |
|------------------------------------------------------------------------------------|---------|-------|---------|-------|-----------|-----------------|
|                                                                                    | Results | RDL   | Results | RDL   |           |                 |
| Low Level Volatile Organic Compounds in Air for sample(s): 01-06 Batch: WG352667-3 |         |       |         |       |           |                 |
| Heptane                                                                            | ND      | 0.200 | ND      | 0.819 |           | 1               |
| n-Hexane                                                                           | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Propylene                                                                          | ND      | 0.200 | ND      | 0.344 |           | 1               |
| Styrene                                                                            | ND      | 0.200 | ND      | 0.851 |           | 1               |
| Tetrachloroethene                                                                  | ND      | 0.200 | ND      | 1.36  |           | 1               |
| Tetrahydrofuran                                                                    | ND      | 0.200 | ND      | 0.589 |           | 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 acetate                                                                      | ND      | 0.200 | ND      | 0.704 |           | 1               |
| Vinyl bromide                                                                      | ND      | 0.200 | ND      | 0.874 |           | 1               |
| Vinyl chloride                                                                     | ND      | 0.200 | ND      | 0.511 |           | 1               |



# Lab Control Sample Analysis Batch Quality Control

Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

| Parameter                                                                                 | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|-------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 Batch: WG352667-2 |                  |                   |                     |     |            |
| 1,1,1-Trichloroethane                                                                     | 101              | -                 | 70-130              | -   | -          |
| 1,1,2,2-Tetrachloroethane                                                                 | 104              | -                 | 70-130              | -   | -          |
| 1,1,2-Trichloroethane                                                                     | 87               | -                 | 70-130              | -   | -          |
| 1,1-Dichloroethane                                                                        | 91               | -                 | 70-130              | -   | -          |
| 1,1-Dichloroethene                                                                        | 92               | -                 | 70-130              | -   | -          |
| 1,2,4-Trichlorobenzene                                                                    | 126              | -                 | 70-130              | -   | -          |
| 1,2,4-Trimethylbenzene                                                                    | 91               | -                 | 70-130              | -   | -          |
| 1,2-Dibromoethane                                                                         | 83               | -                 | 70-130              | -   | -          |
| 1,2-Dichlorobenzene                                                                       | 95               | -                 | 70-130              | -   | -          |
| 1,2-Dichloroethane                                                                        | 80               | -                 | 70-130              | -   | -          |
| 1,2-Dichloropropane                                                                       | 96               | -                 | 70-130              | -   | -          |
| 1,3,5-Trimethylbenzene                                                                    | 86               | -                 | 70-130              | -   | -          |
| 1,3-Butadiene                                                                             | 108              | -                 | 70-130              | -   | -          |
| 1,3-Dichlorobenzene                                                                       | 90               | -                 | 70-130              | -   | -          |
| 1,4-Dichlorobenzene                                                                       | 92               | -                 | 70-130              | -   | -          |
| 1,4-Dioxane                                                                               | 110              | -                 | 70-130              | -   | -          |
| 2,2,4-Trimethylpentane                                                                    | 108              | -                 | 70-130              | -   | -          |
| 2-Butanone                                                                                | 95               | -                 | 70-130              | -   | -          |
| 2-Hexanone                                                                                | 117              | -                 | 70-130              | -   | -          |
| 3-Chloropropene                                                                           | 99               | -                 | 70-130              | -   | -          |
| 4-Ethyltoluene                                                                            | 89               | -                 | 70-130              | -   | -          |

# Lab Control Sample Analysis Batch Quality Control

Project Name: TEI - ASTORIA

Project Number: 750

Lab Number: L0901571

Report Date: 02/13/09

| Parameter                                                                                 | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|-------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 Batch: WG352667-2 |                  |                   |                     |     |            |
| Acetone                                                                                   | 88               | -                 | 70-130              | -   | -          |
| Benzene                                                                                   | 91               | -                 | 70-130              | -   | -          |
| Benzyl chloride                                                                           | 92               | -                 | 70-130              | -   | -          |
| Bromodichloromethane                                                                      | 97               | -                 | 70-130              | -   | -          |
| Bromoform                                                                                 | 89               | -                 | 70-130              | -   | -          |
| Bromomethane                                                                              | 84               | -                 | 70-130              | -   | -          |
| Carbon disulfide                                                                          | 96               | -                 | 70-130              | -   | -          |
| Carbon tetrachloride                                                                      | 100              | -                 | 70-130              | -   | -          |
| Chlorobenzene                                                                             | 92               | -                 | 70-130              | -   | -          |
| Chloroethane                                                                              | 99               | -                 | 70-130              | -   | -          |
| Chloroform                                                                                | 91               | -                 | 70-130              | -   | -          |
| Chloromethane                                                                             | 106              | -                 | 70-130              | -   | -          |
| cis-1,2-Dichloroethene                                                                    | 91               | -                 | 70-130              | -   | -          |
| cis-1,3-Dichloropropene                                                                   | 77               | -                 | 70-130              | -   | -          |
| Cyclohexane                                                                               | 103              | -                 | 70-130              | -   | -          |
| Dibromochloromethane                                                                      | 97               | -                 | 70-130              | -   | -          |
| Dichlorodifluoromethane                                                                   | 90               | -                 | 70-130              | -   | -          |
| Ethyl Alcohol                                                                             | 102              | -                 | 70-130              | -   | -          |
| Ethyl Acetate                                                                             | 115              | -                 | 70-130              | -   | -          |
| Ethylbenzene                                                                              | 85               | -                 | 70-130              | -   | -          |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane                                                     | 94               | -                 | 70-130              | -   | -          |



# Lab Control Sample Analysis

Batch Quality Control

Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

| Parameter                                                                                 | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|-------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 Batch: WG352667-2 |                  |                   |                     |     |            |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane                                                    | 94               | -                 | 70-130              | -   | -          |
| Hexachlorobutadiene                                                                       | 132              | -                 | 70-130              | -   | -          |
| iso-Propyl Alcohol                                                                        | 94               | -                 | 70-130              | -   | -          |
| Methylene chloride                                                                        | 96               | -                 | 70-130              | -   | -          |
| 4-Methyl-2-pentanone                                                                      | 114              | -                 | 70-130              | -   | -          |
| Methyl tert butyl ether                                                                   | 85               | -                 | 70-130              | -   | -          |
| p/m-Xylene                                                                                | 78               | -                 | 70-130              | -   | -          |
| o-Xylene                                                                                  | 89               | -                 | 70-130              | -   | -          |
| Heptane                                                                                   | 84               | -                 | 70-130              | -   | -          |
| n-Hexane                                                                                  | 105              | -                 | 70-130              | -   | -          |
| Propylene                                                                                 | 92               | -                 | 70-130              | -   | -          |
| Styrene                                                                                   | 88               | -                 | 70-130              | -   | -          |
| Tetrachloroethene                                                                         | 100              | -                 | 70-130              | -   | -          |
| Tetrahydrofuran                                                                           | 115              | -                 | 70-130              | -   | -          |
| Toluene                                                                                   | 80               | -                 | 70-130              | -   | -          |
| trans-1,2-Dichloroethene                                                                  | 92               | -                 | 70-130              | -   | -          |
| trans-1,3-Dichloropropene                                                                 | 64               | -                 | 70-130              | -   | -          |
| Trichloroethene                                                                           | 99               | -                 | 70-130              | -   | -          |
| Trichlorofluoromethane                                                                    | 93               | -                 | 70-130              | -   | -          |
| Vinyl acetate                                                                             | 92               | -                 | 70-130              | -   | -          |
| Vinyl bromide                                                                             | 93               | -                 | 70-130              | -   | -          |

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TEI - ASTORIA  
Project Number: 750

Lab Number: L0901571  
Report Date: 02/13/09

| Parameter                                                                                 | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|-------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 Batch: WG352667-2 |                  |                   |                     |     |            |
| Vinyl chloride                                                                            | 101              | -                 | 70-130              | -   |            |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

| Parameter                                                                                                                                | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 QC Batch ID: WG352667-4 QC Sample: L0901571-06 Client ID: SGP-11 |               |                  |       |     |            |
| 1,1,1-Trichloroethane                                                                                                                    | >100          | >100             | ppbV  | NC  | 25         |
| 1,1,2,2-Tetrachloroethane                                                                                                                | ND            | ND               | ppbV  | NC  | 25         |
| 1,1,2-Trichloroethane                                                                                                                    | 0.980         | 0.826            | ppbV  | 17  | 25         |
| 1,1-Dichloroethane                                                                                                                       | >100          | >100             | ppbV  | NC  | 25         |
| 1,1-Dichloroethene                                                                                                                       | 5.58          | 5.10             | ppbV  | 9   | 25         |
| 1,2,4-Trichlorobenzene                                                                                                                   | ND            | ND               | ppbV  | NC  | 25         |
| 1,2,4-Trimethylbenzene                                                                                                                   | 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         |
| 2-Butanone                                                                                                                               | 0.341         | 0.293            | ppbV  | 15  | 25         |
| 2-Hexanone                                                                                                                               | ND            | ND               | ppbV  | NC  | 25         |



# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

| Parameter                                                                                                                                | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 QC Batch ID: WG352667-4 QC Sample: L0901571-06 Client ID: SGP-11 |               |                  |       |     |            |
| 3-Chloropropene                                                                                                                          | ND            | ND               | ppbV  | NC  | 25         |
| 4-Ethyltoluene                                                                                                                           | ND            | ND               | ppbV  | NC  | 25         |
| Acetone                                                                                                                                  | 1.70          | 1.31             | ppbV  | 26  | 25         |
| Benzene                                                                                                                                  | 0.934         | 0.882            | ppbV  | 6   | 25         |
| Benzyl chloride                                                                                                                          | 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                                                                                                                            | 0.305         | 0.291            | ppbV  | 5   | 25         |
| Chloroethane                                                                                                                             | ND            | ND               | ppbV  | NC  | 25         |
| Chloroform                                                                                                                               | 10.5          | 9.60             | ppbV  | 9   | 25         |
| Chloromethane                                                                                                                            | ND            | ND               | ppbV  | NC  | 25         |
| cis-1,2-Dichloroethene                                                                                                                   | >100          | >100             | ppbV  | NC  | 25         |
| cis-1,3-Dichloropropene                                                                                                                  | ND            | ND               | ppbV  | NC  | 25         |
| Cyclohexane                                                                                                                              | 7.39          | 7.03             | ppbV  | 5   | 25         |
| Dibromochloromethane                                                                                                                     | ND            | ND               | ppbV  | NC  | 25         |
| Dichlorodifluoromethane                                                                                                                  | 0.425         | 0.416            | ppbV  | 2   | 25         |



# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** TEI - ASTORIA  
**Project Number:** 750

**Lab Number:** L0901571  
**Report Date:** 02/13/09

| Parameter                                                                                                                                | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 QC Batch ID: WG352667-4 QC Sample: L0901571-06 Client ID: SGP-11 |               |                  |       |     |            |
| Ethanol                                                                                                                                  | 4.81          | 4.39             | ppbV  | 9   | 25         |
| Ethyl Acetate                                                                                                                            | ND            | ND               | ppbV  | NC  | 25         |
| Ethylbenzene                                                                                                                             | 0.543         | 0.563            | ppbV  | 13  | 25         |
| Freon-113                                                                                                                                | 14.2          | 12.8             | ppbV  | 10  | 25         |
| Freon-114                                                                                                                                | ND            | ND               | ppbV  | NC  | 25         |
| Hexachlorobutadiene                                                                                                                      | ND            | ND               | ppbV  | NC  | 25         |
| Isopropanol                                                                                                                              | 0.688         | 0.638            | ppbV  | 8   | 25         |
| Methylene chloride                                                                                                                       | 2.66          | 2.37             | ppbV  | 12  | 25         |
| 4-Methyl-2-pentanone                                                                                                                     | ND            | ND               | ppbV  | NC  | 25         |
| Methyl tert butyl ether                                                                                                                  | 2.33          | 2.02             | ppbV  | 14  | 25         |
| p/m-Xylene                                                                                                                               | 2.77          | 2.41             | ppbV  | 14  | 25         |
| o-Xylene                                                                                                                                 | 0.606         | 0.489            | ppbV  | 21  | 25         |
| Heptane                                                                                                                                  | 0.204         | ND               | ppbV  | NC  | 25         |
| n-Hexane                                                                                                                                 | 0.816         | 0.716            | ppbV  | 13  | 25         |
| Propylene                                                                                                                                | 0.788         | 0.704            | ppbV  | 11  | 25         |
| Styrene                                                                                                                                  | ND            | ND               | ppbV  | NC  | 25         |
| Tetrachloroethene                                                                                                                        | >100          | >100             | ppbV  | NC  | 25         |
| Tetrahydrofuran                                                                                                                          | 0.493         | 0.462            | ppbV  | 6   | 25         |
| Toluene                                                                                                                                  | 0.723         | 0.668            | ppbV  | 8   | 25         |

# Lab Duplicate Analysis

Project Name: TEI - ASTORIA  
Project Number: 750

Lab Number: L0901571  
Report Date: 02/13/09

| Parameter                                                                                                                                | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 QC Batch ID: WG352667-4 QC Sample: L0901571-06 Client ID: SGP-11 |               |                  |       |     |            |
| trans-1,2-Dichloroethene                                                                                                                 | 6.73          | 6.19             | ppbV  | 8   | 25         |
| trans-1,3-Dichloropropene                                                                                                                | ND            | ND               | ppbV  | NC  | 25         |
| Trichloroethene                                                                                                                          | >100          | >100             | ppbV  | NC  | 25         |
| Trichlorofluoromethane                                                                                                                   | 0.232         | 0.205            | ppbV  | 12  | 25         |
| Vinyl acetate                                                                                                                            | ND            | ND               | ppbV  | NC  | 25         |
| Vinyl bromide                                                                                                                            | ND            | ND               | ppbV  | NC  | 25         |
| Vinyl chloride                                                                                                                           | 99.8          | 93.7             | ppbV  | 6   | 25         |

|                                                                                                                                          |      |      |      |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|----|----|
| Low Level Volatile Organic Compounds in Air Associated sample(s): 01-06 QC Batch ID: WG352667-4 QC Sample: L0901571-06 Client ID: SGP-11 |      |      |      |    |    |
| 1,1,1-Trichloroethane                                                                                                                    | 200  | 158  | ppbV | 23 | 25 |
| 1,1-Dichloroethane                                                                                                                       | 91.2 | 74.6 | ppbV | 20 | 25 |
| cis-1,2-Dichloroethene                                                                                                                   | 1900 | 1540 | ppbV | 21 | 25 |
| Tetrachloroethene                                                                                                                        | 8310 | 7130 | ppbV | 15 | 25 |
| Trichloroethene                                                                                                                          | 3100 | 2500 | ppbV | 21 | 25 |



Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## 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 |
|-------------|-----------|----------|------------|-------------------|---------------------------|------------------------------|-----------------|----------------|-------|
| L0901571-01 | SGP-2     | 204      | 2.7L Can   | I0900899          | -29.4                     | 2.8                          | -               | -              | -     |
| L0901571-02 | SGP-6     | 138      | 2.7L Can   | I0900899          | -29.4                     | 2.5                          | -               | -              | -     |
| L0901571-03 | SGP-4     | 215      | 2.7L Can   | I0900899          | -29.4                     | 0.6                          | -               | -              | -     |
| L0901571-04 | SGP-9     | 171      | 2.7L Can   | I0900899          | -29.4                     | 0.8                          | -               | -              | -     |
| L0901571-05 | SGP-12    | 414      | 2.7L Can   | I0900899          | -29.4                     | 1.1                          | -               | -              | -     |
| L0901571-06 | SGP-11    | 516      | 2.7L Can   | I0900730          | -29.4                     | 1.2                          | -               | -              | -     |



**Project Name:** TEI - ASTORIA**Lab Number:** L0901571**Project Number:** 750**Report Date:** 02/13/09**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

|               |                     |
|---------------|---------------------|
| <b>Cooler</b> | <b>Custody Seal</b> |
| N/A           | Absent              |

**Container Information**

| Container ID | Container Type       | Cooler | pH | Temp | Pres | Seal   | Analysis    |
|--------------|----------------------|--------|----|------|------|--------|-------------|
| L0901571-01A | Canister - 2.7 Liter | N/A    | NA |      | NA   | Absent | TO15-LL(30) |
| L0901571-02A | Canister - 2.7 Liter | N/A    | NA |      | NA   | Absent | TO15-LL(30) |
| L0901571-03A | Canister - 2.7 Liter | N/A    | NA |      | NA   | Absent | TO15-LL(30) |
| L0901571-04A | Canister - 2.7 Liter | N/A    | NA |      | NA   | Absent | TO15-LL(30) |
| L0901571-05A | Canister - 2.7 Liter | N/A    | NA |      | NA   | Absent | TO15-LL(30) |
| L0901571-06A | Canister - 2.7 Liter | N/A    | NA |      | NA   | Absent | TO15-LL(30) |

\*Hold days indicated by values in parentheses

Project Name: TEI - ASTORIA

Lab Number: L0901571

Project Number: 750

Report Date: 02/13/09

## 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.
- NI - Not Ignitable.
- 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.
- 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 following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- 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.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



**Project Name:** TEI - ASTORIA**Lab Number:** L0901571**Project Number:** 750**Report Date:** 02/13/09

## 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 January 7, 2009

The following list includes only those analytes/methods for which certification/approval is 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, Chloride, Fluoride, Sulfate, Sulfite, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, 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 Dissolved Solids, Total Suspended Solids (non-filterable), Total Cyanide, Bromide. 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, Ignitability, Corrosivity, TCLP 1311, Reactivity. 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.

*Non-Potable Water* (Inorganic Parameters: SM2320B, 4500NH<sub>3</sub>-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 365.2, EPA 150.1, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 624, 625, 608.)

*Solid & Chemical Materials* (Inorganic Parameters: 6020, 9050, 7470, 7471, 9045, EPA 7.3.3.2, EPA 7.3.4.2, 9014, 9065. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

*Air & Emissions* (EPA TO-15.)

### Louisiana Department of Environmental Quality Certificate/Lab ID: 03090.

*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.

*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.

*Non-Potable Water* (Inorganic Parameters: SW-846 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 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, 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)

**New York Department of Health** Certificate/Lab ID: 11627.

*Non-Potable Water* (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, SM2540C, 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.)

*Air & Emissions* (EPA TO-15.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00299.

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.

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID: 68-02089.  
Registered Laboratory.

**U.S. Army Corps of Engineers**

**Department of the Navy**

## AIR ANALYSIS

PAGE 1 OF 1



## CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

## Client Information

Client: Trimvint Environmental  
 Address: 601 Inner belt Rd  
Somerville, MA  
 Phone: 800-966-9282  
 Fax:

## Project Information

Project Name: TEC-Asbestos  
 Project Location: 42-14 19th Ave, Astoria, NY

Project #: 750Project Manager: Craig Sese

ALPHA Quote #:

Turn-Around Time

## Date Rec'd in Lab:

## 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)

ALPHA Job #: 20901571

## Billing Information

☐ Same as Client Info

PO #:

## Regulatory Requirements/Report Limits

State/Fed Program Criteria

Fax:

Email: C.Sese@trimvint.com☐ These samples have been previously analyzed by Alpha

☒ Standard ☐ RUSH (only confirmed if pre-approved)  
 10 DAYS  
 Date Due: Time:

Other Project Specific Requirements/Comments:

NO ID on Flow control for SGP-9, 12, and 11.  
Industrial 1, n, 15

All Columns Below Must Be Filled Out

| ALPHA Lab ID<br>(Lab Use Only) | Sample ID | Collection |            |          |        | Sample Matrix* | Sampler's Initials | Can Size | ID Can | ID - Flow Controller | TO-1 | TO-1 | TO-1 | APH | FIXE | TO-1 | TO-1 | Sample Comments (i.e. PID) |
|--------------------------------|-----------|------------|------------|----------|--------|----------------|--------------------|----------|--------|----------------------|------|------|------|-----|------|------|------|----------------------------|
|                                |           | Date       | Start Time | End Time | Vacuum |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
| 1571-1                         | SGP-2     | 2/5/09     | 800        |          |        | 0              | SG                 | STB      | 1L     | 104                  | 4    | X    |      |     |      |      |      |                            |
| -2                             | SGP-6     |            | 845        |          |        | 0              |                    |          |        | 138                  | 2    | X    |      |     |      |      |      |                            |
| -3                             | SGP-4     |            | 915        |          |        | 0              |                    |          |        | 171                  | 1    | X    |      |     |      |      |      |                            |
| -4                             | SGP-9     |            | 956        |          |        | 0              |                    |          |        | 215                  | -    | X    |      |     |      |      |      |                            |
| -5                             | SGP-12    |            | 1030       |          |        | 0              |                    |          |        | 414                  | -    | X    |      |     |      |      |      |                            |
| -6                             | SGP-11    |            | 1105       |          |        | 0              |                    |          |        | 516                  | -    | X    |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
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|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
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|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
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|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
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|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |
|                                |           |            |            |          |        |                |                    |          |        |                      |      |      |      |     |      |      |      |                            |

## \*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time

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.

## **APPENDIX C**

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 1/19/09 Name of Inspector: Kate Miller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☐ Knock Out Alarm On Outer Warehouse Yes ☒ No ☐

☐ Knock Out Alarm On 19th Avenue Yes ☐ No ☒

Knockout Volume (gallons): No. 1 0 No. 2 5 No. 3 20 No. 4 5

☒ Blower Overheat (Motor Thermal Prot.) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

Corrective Actions/Notes:

Knockout drum #1 changed out

## Outer Warehouse System

Reading

VOCs

Manifold Vacuum:

Press. at Blower:

Press. at Between Carbon Vessels:

Discharge:

Notes:

## 19th Ave. Expansion System

Reading

VOCs

Manifold Vacuum:

Press. at Blower:

Press. at Between Carbon Vessels:

Discharge:

Notes:

## Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 11/5/09 Name of Inspector: Kate Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

### ALARM/MALFUNCTION CONDITIONS

☒ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☒ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1      No. 2      No. 3      No. 4     

☐ Blower Overheat (Motor Thermal Prot.) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☐ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☐ Air Compressor Alarm On

Corrective Actions/Notes:

System appears to be down  
Drum 1 alarm & vacuum alarm on. Drum 1 not full.

| Outer Warehouse System            | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  |         |      |
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |

Notes:

| 19th Ave. Expansion System        | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  |         |      |
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 12/30/08 Name of Inspector: Mike Miller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☒ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☒ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1 15 No. 2 0 No. 3 10 No. 4 0

☒ Blower Overheat (Motor Thermal Prot) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

Corrective Actions/Notes:

Knockout Alarm #3 showed less water than was assumed yesterday. Drums not changed out.

## Outer Warehouse System

|                                   | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  | 9.0     | 2.8  |
| Press. at Blower:                 | 8.3     | 9.0  |
| Press. at Between Carbon Vessels: | —       | 0.6  |
| Discharge:                        | —       | 0.2  |

Notes:

## 19th Ave. Expansion System

|                                   | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  | 9.6     | 4.1  |
| Press. at Blower:                 | 8.7     | 4.8  |
| Press. at Between Carbon Vessels: | —       | 0.8  |
| Discharge:                        | —       | 0.6  |

Notes:

# MANIFOLD -19th Avenue Expansion

|       | PPM | % Open |        | PPM | % Open |
|-------|-----|--------|--------|-----|--------|
| SVE-1 | 0.1 | 90     | HSVE-1 | 0.2 | 90     |
| SVE-2 | 0.0 | 100    | HSVE-2 | 0.3 | 90     |
| SVE-3 | 0.1 | 40     | HSVE-3 | 0.0 | 80     |
| SVE-4 | 0.3 | 50     | HSVE-4 | 0.1 | 20     |
| SVE-5 | 0.3 | 50     | HSVE-5 | 0.2 | 20     |
| SVE-6 | 0.0 | 100    | HSVE-6 | 0.1 | 20     |
| SVE-7 | 0.2 | 100    | HSVE-7 | 0.2 | 60     |
| SVE-8 | 0.1 | 50     |        |     |        |

Notes:

## MANIFOLD STATUS-Outer Warehouse SVE System

|                 | PPM | % Open |                   | PPM | % Open |
|-----------------|-----|--------|-------------------|-----|--------|
| SW Deep         | 1.3 | 50     | So. Shall. E+W    | 0.6 | 50     |
| SE Deep         | 1.0 | 50     | MW-31/Hor. Shall. | 0.5 | 50     |
| NW Deep         | 1.2 | 50     | MW-12S            | 0.8 | 50     |
| NE Deep         | 2.9 | 50     | MW-31             |     |        |
| MW-31/Hor. Deep | 1.8 | 50     | No. Shall. E+W    | 1.2 | 50     |

Notes: parts in driveway/street vacuumed out and added to knockout drum #1

### Vacuum-Outer Warehouse

|        | In. Water |        | In. Water |
|--------|-----------|--------|-----------|
| SGP-8  | .00       | SGP-2  | .00       |
| SGP-9  | .04       | SGP-3  | .00       |
| SGP-10 | .03       | SGP-4  | .01       |
| SGP-11 | .01       | SGP-5  | .01       |
| SGP-12 | .00       | SGP-6  | .00       |
| SGP-13 | .02       | SGP-7  | .00       |
| MW-29  | —         | SGP-14 | .02       |
| MW-33  | —         | SGP-15 | .00       |
| MW-34  | —         | SGP-16 | .01       |
| MW-35  | —         | SGP-17 | .00       |
| MW-36  | —         | SGP-18 | .04       |
| MW-32  | —         | SGP-19 | .08       |

Notes:

## AIR SPARGE MANIFOLD STATUS-Outer Warehouse SVE System

|      | Press. | Flow | %Open |
|------|--------|------|-------|
| AS-1 | 11     | <2   | <0    |
| AS-2 | 4      | 3.5  | 50    |
| AS-3 | 9      | <2   | 100   |
| AS-4 | 4.5    | <2   | 50    |
| AS-5 | 7.5    | 4.25 | 50    |
| AS-6 | 7.5    | <2   | 100   |

SYSTEM CLEAN AND SECURE:

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 12/21/08 Name of Inspector: Kate Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 20 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☒ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☒ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1 15 No. 2 0 No. 3 25 No. 4 0

☒ Blower Overheat (Motor Thermal Prot.) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

## Corrective Actions/Notes:

System was restarted once temperatures became warmer - alarm light shut off and system was reset. Appears to be working normally. Next O&M planned for tomorrow - will disable knock out #3

## Outer Warehouse System

Reading

VOCs

Manifold Vacuum:

Press. at Blower:

Press. at Between Carbon Vessels:

Discharge:

Notes:

## 19th Ave. Expansion System

Reading

VOCs

Manifold Vacuum:

Press. at Blower:

Press. at Between Carbon Vessels:

Discharge:

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 12/22/08 Name of Inspector: John Feller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☐ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☐ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1 \_\_\_ No. 2 \_\_\_ No. 3 \_\_\_ No. 4 \_\_\_

☐ Blower Overheat (Motor Thermal Prot.) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☐ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☒ 19th Avenue Expansion ☐

☐ Air Compressor Alarm On

Corrective Actions/Notes:

Outer Warehouse Vacuum failed alarm on -  
vacuum not working on 19th Ave system -  
entire system shut off. No vacuum felt on any port  
on system HASVE/AS

### Outer Warehouse System

|                                   | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  |         |      |
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |

Notes:

### 19th Ave. Expansion System

|                                   | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  |         |      |
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 12/5/08 Name of Inspector: Kate Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☐ Knock Out Alarm On Outer Warehouse Yes ☐ No ☒

☐ Knock Out Alarm On 19th Avenue Yes ☐ No ☒

Knockout Volume (gallons): No. 1 25 No. 2 10 No. 3 10 No. 4 10

☒ Blower Overheat (Motor Thermal Prot.)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

Corrective Actions/Notes:

Control panel operational - no alarms

## Outer Warehouse System

|                                   | Reading | VOCs               |
|-----------------------------------|---------|--------------------|
| Manifold Vacuum:                  | 10.3    | <del>3.5</del> 3.5 |
| Press. at Blower:                 | 9.6     | 8.0                |
| Press. at Between Carbon Vessels: | —       | 0.8                |
| Discharge:                        | —       | 0.3                |

Notes:

## 19th Ave. Expansion System

|                                   | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  | 9.2     | 6.7  |
| Press. at Blower:                 | 9.1     | 5.6  |
| Press. at Between Carbon Vessels: | —       | 0.9  |
| Discharge:                        | —       | 0.1  |

Notes:

12/5/08

## MANIFOLD -19th Avenue Expansion

|       | PPM | % Open |        | PPM | % Open |
|-------|-----|--------|--------|-----|--------|
| SVE-1 | 0.0 | 90     | HSVE-1 | 0.0 | 100    |
| SVE-2 | 0.2 | 100    | HSVE-2 | 0.1 | 70     |
| SVE-3 | 0.0 | 50     | HSVE-3 | 0.0 | 100    |
| SVE-4 | 0.1 | 50     | HSVE-4 | 0.1 | 50     |
| SVE-5 | 0.0 | 80     | HSVE-5 | 0.0 | 50     |
| SVE-6 | 0.0 | 100    | HSVE-6 | 0.0 | 50     |
| SVE-7 | 0.0 | 80     | HSVE-7 | 0.0 | 20     |
| SVE-8 | 0.0 | 50     |        |     |        |

Notes: 100 nozzles not attached identically,

## MANIFOLD STATUS-Outer Warehouse SVE System

|                 | PPM | % Open |                   | PPM | % Open |
|-----------------|-----|--------|-------------------|-----|--------|
| SW Deep         | 0.5 | 50     | So. Shall. E+W    | 0.9 | 50     |
| SE Deep         | 0.4 | 50     | MW-31/Hor. Shall. | 2.3 | 50     |
| NW Deep         | 0.7 | 50     | MW-12S            | 1.6 | 50     |
| NE Deep         | 0.7 | 50     | MW-31             | —   | —      |
| MW-31/Hor. Deep | 1.4 | 50     | No. Shall. E+W    | 0.1 | 50     |

Notes:

## Vacuum-Outer Warehouse

|        | In. Water |
|--------|-----------|
| SGP-8  | 0.02      |
| SGP-9  | 0.00      |
| SGP-10 | 0.04      |
| SGP-11 | 0.03      |
| SGP-12 | 0.02      |
| SGP-13 | 0.04      |
| MW-29  | —         |
| MW-33  | —         |
| MW-34  | —         |
| MW-35  | —         |
| MW-36  | —         |
| MW-32  | —         |

## Vacuum - 19th Avenue Expansion

|        | In. Water |
|--------|-----------|
| SGP-2  | 0.01      |
| SGP-3  | 0.02      |
| SGP-4  | 0.01      |
| SGP-5  | 0.02      |
| SGP-6  | 0.01      |
| SGP-7  | 0.00      |
| SGP-14 | 0.02      |
| SGP-15 | 0.02      |
| SGP-16 | 0.08      |
| SGP-17 | 0.00      |
| SGP-18 | 0.08      |
| SGP-19 | 0.00      |

Notes:

## AIR SPARGE MANIFOLD STATUS-Outer Warehouse SVE System

|      | Press. | Flow | % Open |
|------|--------|------|--------|
| AS-1 | 10.5   | <2   | 30     |
| AS-2 | 4.5    | 3    | 20     |
| AS-3 | 8.0    | <2   | 100    |
| AS-4 | 4.5    | 7    | 50     |
| AS-5 | 7.8    | 6    | 50     |
| AS-6 | 7.2    | <2   | 100    |

SYSTEM CLEAN AND SECURE:

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 11/19/08 Name of Inspector: X. Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O ~ 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☐ Knock Out Alarm On Outer Warehouse Yes ☐ No ☒

☐ Knock Out Alarm On 19th Avenue Yes ☐ No ☒

Knockout Volume (gallons): No. 1 30 No. 2 5 No. 3 20 No. 4 5

☒ Blower Overheat (Motor Thermal Prot.)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

Corrective Actions/Notes:

Control panel operational - no alarms  
Unable to vacuum pots in laboratory - will try  
once gassed tanks

## Outer Warehouse System

|                                   | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  | 8.4     | 2.6  |
| Press. at Blower:                 | 8.0     | 8.4  |
| Press. at Between Carbon Vessels: | -       | 2.7  |
| Discharge:                        | -       | 0.1  |

Notes:

## 19th Ave. Expansion System

|                                   | Reading | VOCs |
|-----------------------------------|---------|------|
| Manifold Vacuum:                  | 9.2     | 7.0  |
| Press. at Blower:                 | 8.1     | 5.0  |
| Press. at Between Carbon Vessels: | -       | 0.6  |
| Discharge:                        | -       | 0.2  |

Notes:

# MANIFOLD -19th Avenue Expansion

|       | PPM | % Open |        | PPM | % Open |
|-------|-----|--------|--------|-----|--------|
| SVE-1 | 0.1 | 90     | HSVE-1 | 0.1 | 90     |
| SVE-2 | 0.1 | 100    | HSVE-2 | 0   | 90     |
| SVE-3 | 0   | 40     | HSVE-3 | 0.1 | 80     |
| SVE-4 | 0.1 | 50     | HSVE-4 | 0.2 | 20     |
| SVE-5 | 0.1 | 50     | HSVE-5 | 0.2 | 20     |
| SVE-6 | 0   | 100    | HSVE-6 | 0.1 | 20     |
| SVE-7 | 0.1 | 60     | HSVE-7 | 0   | 100    |
| SVE-8 | 0.1 | 50     |        |     |        |

Notes:

## MANIFOLD STATUS-Outer Warehouse SVE System

|                 | PPM | % Open |                   | PPM | % Open |
|-----------------|-----|--------|-------------------|-----|--------|
| SW Deep         | 0.7 | 50     | So. Shall. E+W    | 0.4 | 50     |
| SE Deep         | 0.4 | 50     | MW-31/Hor. Shall. | 0.3 | 50     |
| NW Deep         | 0.8 | 50     | MW-12S            | 0.6 | 50     |
| NE Deep         | 1.0 | 50     | MW-31             | —   | —      |
| MW-31/Hor. Deep | 0.7 | 50     | No. Shall. E+W    | 0.8 | 50     |

Notes:

## Vacuum-Outer Warehouse

|        | In. Water |        | In. Water |
|--------|-----------|--------|-----------|
| SGP-8  | 0.02      | SGP-2  | 0.02      |
| SGP-9  | 0.00      | SGP-3  | 0.01      |
| SGP-10 | 0.01      | SGP-4  | 0.01      |
| SGP-11 | 0.01      | SGP-5  | 0.01      |
| SGP-12 | 0.01      | SGP-6  | 0.02      |
| SGP-13 | 0.00      | SGP-7  | 0.01      |
| MW-29  | —         | SGP-14 | 0.02      |
| MW-33  | —         | SGP-15 | 0.03      |
| MW-34  | —         | SGP-16 | 0.01      |
| MW-35  | —         | SGP-17 | 0.02      |
| MW-36  | —         | SGP-18 | 0.03      |
| MW-32  | —         | SGP-19 | 0.02      |

Notes:

## AIR SPARGE MANIFOLD STATUS-Outer Warehouse SVE System

|      | Press. | Flow | %Open |
|------|--------|------|-------|
| AS-1 | 10     | 5.2  | 50    |
| AS-2 | 3      | 3.5  | 30    |
| AS-3 | 8      | 5.2  | 100   |
| AS-4 | 6.5    | 6.5  | 50    |
| AS-5 | 7      | 5    | 50    |
| AS-6 | 7      | 2    | 100   |

SYSTEM CLEAN AND SECURE:

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 2/2/09 Name of Inspector: Nate Fuller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☐ Knock Out Alarm On Outer Warehouse Yes ☒ No

☐ Knock Out Alarm On 19th Avenue Yes ☒ No

Knockout Volume (gallons): No. 1 15 No. 2 5 No. 3 20 No. 4 5

☒ Blower Overheat (Motor Thermal Prot.)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

Corrective Actions/Notes:

Initial panel operational - no alarms

## Outer Warehouse System

|                                   | Reading    | VOCs       |
|-----------------------------------|------------|------------|
| Manifold Vacuum:                  |            |            |
| Press. at Blower:                 | <u>8.4</u> | <u>3.0</u> |
| Press. at Between Carbon Vessels: | <u>8.1</u> | <u>8.6</u> |
| Discharge:                        | <u>-</u>   | <u>0.8</u> |
| Notes:                            |            | <u>0.1</u> |

## 19th Ave. Expansion System

|                                   | Reading    | VOCs       |
|-----------------------------------|------------|------------|
| Manifold Vacuum:                  |            |            |
| Press. at Blower:                 | <u>9.0</u> | <u>6.9</u> |
| Press. at Between Carbon Vessels: | <u>7.8</u> | <u>5.1</u> |
| Discharge:                        | <u>-</u>   | <u>0.7</u> |
| Notes:                            |            | <u>0.1</u> |

# MANIFOLD -19th Avenue Expansion

|       | PPM | % Open |        | PPM | % Open |
|-------|-----|--------|--------|-----|--------|
| SVE-1 | 0.1 | 90     | HSVE-1 | 0.1 | 90     |
| SVE-2 | 0.0 | 100    | HSVE-2 | 0.3 | 90     |
| SVE-3 | 0.2 | 40     | HSVE-3 | 0.1 | 80     |
| SVE-4 | 0.1 | 50     | HSVE-4 | 0.0 | 20     |
| SVE-5 | 0.3 | 50     | HSVE-5 | 0.1 | 20     |
| SVE-6 | 0.2 | 100    | HSVE-6 | 0.1 | 20     |
| SVE-7 | 0.0 | 60     | HSVE-7 | 0.1 | 20     |
| SVE-8 | 0.1 | 50     |        |     |        |

Notes:

## MANIFOLD STATUS-Outer Warehouse SVE System

|                 | PPM | % Open |                   | PPM | % Open |
|-----------------|-----|--------|-------------------|-----|--------|
| SW Deep         | 1.3 | 50     | So. Shall. E+W    | 0.5 | 50     |
| SE Deep         | 1.0 | 50     | MW-31/Hor. Shall. | 0.5 | 50     |
| NW Deep         | 1.0 | 50     | MW-12S            | 0.8 | 50     |
| NE Deep         | 2.9 | 50     | MW-31             |     |        |
| MW-31/Hor. Deep | 0.8 | 50     | No. Shall. E+W    | 1.0 | 50     |

Notes:

unable to vacuum ports in street - 100d shut - will try again tomorrow

## Vacuum-Outer Warehouse

|        | In. Water |        | In. Water |
|--------|-----------|--------|-----------|
| SGP-8  | .01       | SGP-2  | .03       |
| SGP-9  | .03       | SGP-3  | .03       |
| SGP-10 | .02       | SGP-4  | .02       |
| SGP-11 | .02       | SGP-5  | .01       |
| SGP-12 | .01       | SGP-6  | .00       |
| SGP-13 | .02       | SGP-7  | .01       |
| MW-29  | -         | SGP-14 | .01       |
| MW-33  | -         | SGP-15 | .00       |
| MW-34  | -         | SGP-16 | .01       |
| MW-35  | -         | SGP-17 | .00       |
| MW-36  | -         | SGP-18 | .04       |
| MW-32  | -         | SGP-19 | .00       |

Notes:

## AIR SPARGE MANIFOLD STATUS-Outer Warehouse SVE System

|      | Press. | Flow | %Open |
|------|--------|------|-------|
| AS-1 | 10.5   | <2   | 50    |
| AS-2 | 4.0    | 3.5  | 30    |
| AS-3 | 9.0    | <2   | 100   |
| AS-4 | 10.5   | 6    | 50    |
| AS-5 | 7.0    | 4.5  | 50    |
| AS-6 | 7.0    | <2   | 100   |

## SYSTEM CLEAN AND SECURE:

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 2/10/09 Name of Inspector: Kate Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☐ Knock Out Alarm On Outer Warehouse Yes ☐ No ☒

☐ Knock Out Alarm On 19th Avenue Yes ☐ No ☒

Knockout Volume (gallons): No. 1      No. 2      No. 3      No. 4     

☐ Blower Overheat (Motor Thermal Prot.)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☐ Blower Vacuum Loss (Sensor to Control Panel)

- Outer Warehouse ☒ 19th Avenue Expansion ☐

☐ Air Compressor Alarm On

## Corrective Actions/Notes:

Outer Warehouse Vacuum fail light OK -  
19th Ave system vacuum stopped running -  
system frozen - entire system shut off.

## Outer Warehouse System

| Manifold Vacuum:                  | Reading | VOCs |
|-----------------------------------|---------|------|
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |
| Notes:                            |         |      |

## 19th Ave. Expansion System

| Manifold Vacuum:                  | Reading | VOCs |
|-----------------------------------|---------|------|
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |
| Notes:                            |         |      |

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 2/9/09 Name of Inspector: Kate Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☐ Knock Out Alarm On Outer Warehouse Yes ☐ No ☒

☐ Knock Out Alarm On 19th Avenue Yes ☐ No ☒

Knockout Volume (gallons): No. 1      No. 2      No. 3      No. 4     

☒ Blower Overheat (Motor Thermal Prot.)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

Corrective Actions/Notes:

Both systems operational - no alarms.

## Outer Warehouse System

| Manifold Vacuum:                  | Reading | VOCs |
|-----------------------------------|---------|------|
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |
| Notes:                            |         |      |

## 19th Ave. Expansion System

| Manifold Vacuum:                  | Reading | VOCs |
|-----------------------------------|---------|------|
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |
| Notes:                            |         |      |

## Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 2/19/09 Name of Inspector: Kate Fuller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

### ALARM/MALFUNCTION CONDITIONS

☒ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☒ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1 30 No. 2 0 No. 3 0 No. 4 0

☒ Blower Overheat (Motor Thermal Prot.) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

Corrective Actions/Notes:

Control panel operational - no alarms

### Outer Warehouse System

|                                   | Reading    | VOCs       |
|-----------------------------------|------------|------------|
| Manifold Vacuum:                  | <u>8.0</u> | <u>2.6</u> |
| Press. at Blower:                 | <u>7.9</u> | <u>7.6</u> |
| Press. at Between Carbon Vessels: | <u>—</u>   | <u>0.9</u> |
| Discharge:                        | <u>—</u>   | <u>0.1</u> |

Notes:

### 19th Ave. Expansion System

|                                   | Reading    | VOCs       |
|-----------------------------------|------------|------------|
| Manifold Vacuum:                  | <u>8.9</u> | <u>8.4</u> |
| Press. at Blower:                 | <u>9.0</u> | <u>8.3</u> |
| Press. at Between Carbon Vessels: | <u>—</u>   | <u>1.0</u> |
| Discharge:                        | <u>—</u>   | <u>0.3</u> |

Notes:

# MANIFOLD -19th Avenue Expansion

|       | PPM | % Open |        | PPM | % Open |
|-------|-----|--------|--------|-----|--------|
| SVE-1 | 0.0 | 90     | HSVE-1 | 0.0 | 90     |
| SVE-2 | 0.0 | 100    | HSVE-2 | 0.0 | 90     |
| SVE-3 | 0.0 | 40     | HSVE-3 | 0.0 | 80     |
| SVE-4 | 0.0 | 50     | HSVE-4 | 0.0 | 20     |
| SVE-5 | 0.0 | 50     | HSVE-5 | 0.0 | 20     |
| SVE-6 | 0.0 | 100    | HSVE-6 | 0.0 | 20     |
| SVE-7 | 0.0 | 100    | HSVE-7 | 0.0 | 100    |
| SVE-8 | 0.0 | 50     |        |     |        |

Notes: all readings of 0.0 - system shut off to check KO drum level & readings spiked afterwards but then returned to zero.

## MANIFOLD STATUS-Outer Warehouse SVE System

|                 | PPM | % Open |                   | PPM | % Open |
|-----------------|-----|--------|-------------------|-----|--------|
| SW Deep         | 0.0 | 50     | So. Shall. E+W    | 0.0 | 50     |
| SE Deep         | 0.0 | 50     | MW-31/Hor. Shall. | 0.0 | 50     |
| NW Deep         | 0.0 | 50     | MW-12S            | 0.0 | 50     |
| NE Deep         | 0.0 | 50     | MW-31             | —   | —      |
| MW-31/Hor. Deep | 0.0 | 50     | No. Shall. E+W    | 0.0 | 50     |

Notes:

## Vacuum-Outer Warehouse

|        | In. Water |        | In. Water |
|--------|-----------|--------|-----------|
| SGP-8  | 0.04      | SGP-2  | 0.01      |
| SGP-9  | 0.05      | SGP-3  | 0.00      |
| SGP-10 | 0.01      | SGP-4  | 0.00      |
| SGP-11 | 0.00      | SGP-5  | 0.00      |
| SGP-12 | 0.03      | SGP-6  | 0.00      |
| SGP-13 | 0.00      | SGP-7  | 0.03      |
| MW-29  | —         | SGP-14 | 0.00      |
| MW-33  | —         | SGP-15 | 0.02      |
| MW-34  | —         | SGP-16 | 0.00      |
| MW-35  | —         | SGP-17 | 0.00      |
| MW-36  | —         | SGP-18 | 0.01      |
| MW-32  | —         | SGP-19 | 0.00      |

Notes: ports in driveway vacuumed out. 1 qt added to knockout drum #1

## AIR SPARGE MANIFOLD STATUS-Outer Warehouse SVE System

|      | Press. | Flow | % Open |
|------|--------|------|--------|
| AS-1 | 10.5   | <2   | 50     |
| AS-2 | 4.0    | 3.5  | 30     |
| AS-3 | 9.0    | <2   | 100    |
| AS-4 | 6.5    | 0    | 50     |
| AS-5 | 4.0    | 4.5  | 50     |
| AS-6 | 7.0    | <2   | 100    |

SYSTEM CLEAN AND SECURE:

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 3/3/09 Name of Inspector: Kate Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☒ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☒ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1      No. 2      No. 3      No. 4     

☐ Blower Overheat (Motor Thermal Prot.)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☐ Blower Vacuum Loss (Sensors to Control Panel)

- Outer Warehouse ☐ 19th Avenue Expansion ☐

☐ Air Compressor Alarm On

Corrective Actions/Notes:

System shut down due to freezing temperatures.  
resumed normal operation 30 min later.  
Operational as of 2:00 pm

### Outer Warehouse System

| Manifold Vacuum:                  | Reading | VOCs |
|-----------------------------------|---------|------|
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |
| Notes:                            |         |      |

### 19th Ave. Expansion System

| Manifold Vacuum:                  | Reading | VOCs |
|-----------------------------------|---------|------|
| Press. at Blower:                 |         |      |
| Press. at Between Carbon Vessels: |         |      |
| Discharge:                        |         |      |
| Notes:                            |         |      |

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 3/4/09 Name of Inspector: Kato Heller

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☒ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☒ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1 \_\_\_ No. 2 \_\_\_ No. 3 \_\_\_ No. 4 \_\_\_

☐ Blower Overheat (Motor Thermal Prot.) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☐ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☒ 19th Avenue Expansion ☒

☐ Air Compressor Alarm On

Corrective Actions/Notes:

System down from 7:00 AM onward due to freezing temperatures

## Outer Warehouse System

Reading

VOCs

Manifold Vacuum:

Press. at Blower:

Press. at Between Carbon Vessels:

Discharge:

Notes:

## 19th Ave. Expansion System

Reading

VOCs

Manifold Vacuum:

Press. at Blower:

Press. at Between Carbon Vessels:

Discharge:

Notes:

# Operation and Maintenance Log Sheet

Site: 42-14 19<sup>th</sup> Street, Astoria, NY

Date: 3/5/09 Name of Inspector: [Signature]

Notes: All measurements are conducted by 11.7 eV PID calibrated to read as benzene.  
of H<sub>2</sub>O = 2.0 inches of Hg

1 psi = 27.7 inches

## ALARM/MALFUNCTION CONDITIONS

☒ Knock Out Alarm On Outer Warehouse Yes ☐ No ☐

☒ Knock Out Alarm On 19th Avenue Yes ☐ No ☐

Knockout Volume (gallons): No. 1 0 No. 2 5 No. 3     No. 4 5

☒ Blower Overheat (Motor Thermal Prot.) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Blower Vacuum Loss (Sensors to Control Panel) - Outer Warehouse ☐ 19th Avenue Expansion ☐

☒ Air Compressor Alarm On

## Corrective Actions/Notes:

Knockout Drum #1 changed out  
Ports in driveway frozen - will be vacuumed out  
next week

## Outer Warehouse System

|                                   | Reading     | VOCs       |
|-----------------------------------|-------------|------------|
| Manifold Vacuum:                  | <u>10.0</u> | <u>4.0</u> |
| Press. at Blower:                 | <u>8.9</u>  | <u>7.8</u> |
| Press. at Between Carbon Vessels: | <u>—</u>    | <u>0.7</u> |
| Discharge:                        | <u>—</u>    | <u>0.3</u> |

Notes:

## 19th Ave. Expansion System

|                                   | Reading    | VOCs       |
|-----------------------------------|------------|------------|
| Manifold Vacuum:                  | <u>9.2</u> | <u>6.9</u> |
| Press. at Blower:                 | <u>8.8</u> | <u>6.9</u> |
| Press. at Between Carbon Vessels: | <u>—</u>   | <u>1.0</u> |
| Discharge:                        | <u>—</u>   | <u>0.5</u> |

Notes:

# MANIFOLD -19th Avenue Expansion

|       | PPM | % Open |        | PPM | % Open |
|-------|-----|--------|--------|-----|--------|
| SVE-1 | 0.0 | 90     | HSVE-1 | 0.0 | 90     |
| SVE-2 | 0.0 | 100    | HSVE-2 | 0.0 | 90     |
| SVE-3 | 0.0 | 40     | HSVE-3 | 0.0 | 80     |
| SVE-4 | 0.0 | 50     | HSVE-4 | 0.0 | 20     |
| SVE-5 | 0.0 | 50     | HSVE-5 | 0.0 | 20     |
| SVE-6 | 0.0 | 60     | HSVE-6 | 0.0 | 20     |
| SVE-7 | 0.0 | 60     | HSVE-7 | 0.0 | 100    |
| SVE-8 | 0.0 | 50     |        |     |        |

Notes:

## MANIFOLD STATUS-Outer Warehouse SVE System

|                 | PPM | % Open |                   | PPM | % Open |
|-----------------|-----|--------|-------------------|-----|--------|
| SW Deep         | 0   | 50%    | So. Shall. E+W    | 0   | 50     |
| SE Deep         | 0   | 50     | MW-31/Hor. Shall. | 0   | 50     |
| NW Deep         | 0   | 50     | MW-12S            | 0   | 50     |
| NE Deep         | 0   | 50     | MW-31             | 0   | 50     |
| MW-31/Hor. Deep | 0   | 50     | No. Shall. E+W    | 0   | 50     |

Notes:

## Vacuum-Outer Warehouse

|        | In. Water |        | In. Water |
|--------|-----------|--------|-----------|
| SGP-8  | 0.03      | SGP-2  | 0.00      |
| SGP-9  | 0.01      | SGP-3  | 0.02      |
| SGP-10 | 0.01      | SGP-4  | 0.01      |
| SGP-11 | 0.01      | SGP-5  | 0.01      |
| SGP-12 | 0.02      | SGP-6  | 0.03      |
| SGP-13 | 0.01      | SGP-7  | 0.00      |
| MW-29  | —         | SGP-14 | 0.00      |
| MW-33  | —         | SGP-15 | 0.01      |
| MW-34  | —         | SGP-16 | 0.00      |
| MW-35  | —         | SGP-17 | 0.02      |
| MW-36  | —         | SGP-18 | 0.01      |
| MW-32  | —         | SGP-19 | 0.01      |

Notes:

## AIR SPARGE MANIFOLD STATUS-Outer Warehouse SVE System

|      | Press. | Flow | %Open |
|------|--------|------|-------|
| AS-1 | 4.0    | <2   | 50    |
| AS-2 | 0      | <2   | 20    |
| AS-3 | 0      | <2   | 100   |
| AS-4 | 8.0    | <2   | 50    |
| AS-5 | 8.5    | 10.5 | 50    |
| AS-6 | 8.0    | <2   | 100   |

SYSTEM CLEAN AND SECURE:

Notes:

## **APPENDIX D**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------|-----------------------------------------------------|-------------------------------|--|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                | 1. Generator ID Number<br><b>NYD077444263</b>                                                                        | 2. Page 1 of<br><b>3</b> | 3. Emergency Response Phone<br><b>1-800-966-9282</b> | 4. Manifest Tracking Number<br><b>004717282 JJK</b> |                               |  |
| 5. Generator's Name and Mailing Address<br><b>Triumvirate Environmental Outbound<br/>42-14 19th Ave.<br/>Astoria, NY 11105</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                | Generator's Site Address (if different than mailing address)<br><b>42-14 19th Avenue<br/>Astoria, New York 11105</b> |                          |                                                      |                                                     |                               |  |
| Generator's Phone:<br><b>(718)274-3336</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 6. Transporter 1 Company Name<br><b>Ross Transportation Services</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                | U.S. EPA ID Number<br><b>OH D980614374</b>                                                                           |                          |                                                      |                                                     |                               |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                | U.S. EPA ID Number                                                                                                   |                          |                                                      |                                                     |                               |  |
| 8. Designated Facility Name and Site Address<br><b>Ross Incineration Services, Inc.<br/>36790 Giles Road<br/>Grafton, OH 44044</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                | U.S. EPA ID Number<br><b>OH D048415665</b>                                                                           |                          |                                                      |                                                     |                               |  |
| Facility's Phone:<br><b>(440) 748-5800</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 9a. HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers<br>No. Type                                                                                           |                          | 11. Total Quantity                                   | 12. Unit Wt/Vol                                     | 13. Waste Codes               |  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1. Hazardous waste, solid, n.o.s. 9, NA3077, III<br>Silica gel, Chloroform                                     | 001                                                                                                                  | CF                       | 00350                                                | P                                                   | D004 D005 D006<br>D007 D008 B |  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2. Waste Flammable liquids, n.o.s. 3, UN1993, II<br>(Methanol, Thin Prep Vials)                                | 001                                                                                                                  | DF                       | 00065                                                | P                                                   | D001 F003<br>B                |  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3. Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II<br>(Ethyl Acetate, Methanol)                      | 001                                                                                                                  | DM                       | 00138                                                | P                                                   | D001 F003 F005<br>B           |  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4. Toxic solids, organic, n.o.s. 6.1, UN2811, II<br>(Sodium fluoride, Ethidium Bromide)                        | 001                                                                                                                  | DF                       | 00126                                                | P                                                   | B                             |  |
| 14. Special Handling Instructions and Additional Information<br>1- (1 x Cubic Yard Box) 84231 2- (1 x 30) 66609 3- (1 x 30) 84343 4- (1 x 55) 64341                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.<br>I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| Generator's/Officer's Printed/Typed Name<br><b>Christopher Canale</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                | Signature<br><i>Christopher Canale</i>                                                                               |                          |                                                      | Month Day Year<br><b>01 07 09</b>                   |                               |  |
| 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____<br>Transporter signature (for exports only): _____ Date leaving U.S.: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 17. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| Transporter 1 Printed/Typed Name<br><b>JONATHAN NAGI</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                | Signature<br><i>Jonathan Nagi</i>                                                                                    |                          |                                                      | Month Day Year<br><b>01 07 09</b>                   |                               |  |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                | Signature                                                                                                            |                          |                                                      | Month Day Year                                      |                               |  |
| 18. Discrepancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| Manifest Reference Number: _____ U.S. EPA ID Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 18b. Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| Facility's Phone: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| 1. <b>H040</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                | 2. <b>H040</b>                                                                                                       |                          | 3. <b>H040</b>                                       |                                                     | 4. <b>H040</b>                |  |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |                                                                                                                      |                          |                                                      |                                                     |                               |  |
| Printed/Typed Name<br><b>Rebecca Winkler</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                | Signature<br><i>Rebecca Winkler</i>                                                                                  |                          |                                                      | Month Day Year<br><b>01 12 09</b>                   |                               |  |

|                                                                                                                                   |                                                                                                                 |                                                    |      |                    |                                               |                 |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------|--------------------|-----------------------------------------------|-----------------|------|------|
| UNIFORM HAZARDOUS WASTE MANIFEST<br>(Continuation Sheet)                                                                          |                                                                                                                 | 21. Generator ID Number<br>N Y D 0 7 7 4 4 4 2 6 3 |      | 22. Page<br>2      | 23. Manifest Tracking Number<br>004717282 JJK |                 |      |      |
| 24. Generator's Name<br>Triumvirate Environmental Outbound<br>42-14 19th Ave.<br>Astoria, NY 11105                                |                                                                                                                 |                                                    |      |                    |                                               |                 |      |      |
| 25. Transporter <u>3</u> Company Name                                                                                             |                                                                                                                 |                                                    |      |                    | U.S. EPA ID Number                            |                 |      |      |
| 26. Transporter <u>4</u> Company Name                                                                                             |                                                                                                                 |                                                    |      |                    | U.S. EPA ID Number                            |                 |      |      |
| 27a.<br>HM                                                                                                                        | 27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 28. Containers                                     |      | 29. Total Quantity | 30. Unit Wt./Vol.                             | 31. Waste Codes |      |      |
|                                                                                                                                   |                                                                                                                 | No.                                                | Type |                    |                                               | D001            | D035 | U031 |
| X                                                                                                                                 | 5 Waste Flammable liquids, toxic, n.o.s. 3 (6.1), UN1992, II (Ethyl Acetate, Methanol)                          | 001                                                | DM   | 00184              | P                                             | U159            | U239 | B    |
| X                                                                                                                                 | 6 Waste Flammable liquids, n.o.s. 3, UN1993, II (Methanol, Thin Prep Vials)                                     | 001                                                | DM   | 00263              | P                                             | D001            |      | B    |
| X                                                                                                                                 | 7 Hazardous waste, liquid, n.o.s. 9, NA3082, III (Tetrachloroethylene, Trichloroethylene)                       | 001                                                | DM   | 00300              | P                                             | D039            | D040 | F002 |
| X                                                                                                                                 | 8 Waste Flammable liquids, n.o.s. 3, UN1993, II (Methanol, Thin Prep Vials)                                     | 001                                                | DF   | 00045              | P                                             | F003            |      | B    |
| X                                                                                                                                 | 9 Waste Flammable liquids, n.o.s. 3, UN1993, II Acetone, Toluene                                                | 001                                                | DM   | 00430              | P                                             | D001            |      | B    |
| X                                                                                                                                 | 10 Waste Flammable liquids, n.o.s. 3, UN1993, II (Methanol, Thin Prep Vials)                                    | 002                                                | DF   | 00280              | P                                             | D001            | F003 | B    |
| X                                                                                                                                 | 11 Waste Aerosols, 2.1, UN1950 (Petroleum Distillates) (RQ: D001) DOT SP 11396                                  | 002                                                | DM   | 00147              | P                                             | D001            |      | B    |
|                                                                                                                                   | 12 Non-regulated material                                                                                       | 008                                                | DM   | 01299              | P                                             |                 |      | B    |
| X                                                                                                                                 | 13 Waste Flammable liquids, n.o.s. 3, UN1993, II (Methanol, Thin Prep Vials)                                    | 003                                                | DM   | 00333              | P                                             | D001            | F003 | B    |
| X                                                                                                                                 | 14 Waste Flammable liquids, toxic, n.o.s. 3 (6.1), UN1992, II (Ethyl Acetate, Methanol)                         | 001                                                | DM   | 00422              | P                                             | D001            | F003 | B    |
| 32. Special Handling Instructions and Additional Information<br>12 - (8 x 55) 64342 13 - (3 x 55) 66608 14 - (1 x 55) 64343-64352 |                                                                                                                 |                                                    |      |                    |                                               |                 |      |      |
| DESIGNATED FACILITY                                                                                                               | 33. Transporter <u>3</u> Acknowledgment of Receipt of Materials<br>Printed/Typed Name Signature Month Day Year  |                                                    |      |                    |                                               |                 |      |      |
|                                                                                                                                   | 34. Transporter <u>4</u> Acknowledgment of Receipt of Materials<br>Printed/Typed Name Signature Month Day Year  |                                                    |      |                    |                                               |                 |      |      |
| 35. Discrepancy                                                                                                                   |                                                                                                                 |                                                    |      |                    |                                               |                 |      |      |
| 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)   |                                                                                                                 |                                                    |      |                    |                                               |                 |      |      |
| H040 H040 H040 H040 H040                                                                                                          |                                                                                                                 |                                                    |      |                    |                                               |                 |      |      |
| H040 H040 H040 H040 H040                                                                                                          |                                                                                                                 |                                                    |      |                    |                                               |                 |      |      |

|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------|------------------------------------------------------|------------------|-----------------|----------|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b><br>(Continuation Sheet)                                                                                                                                   |                                                                                                                 | 21. Generator ID Number<br><b>NYD077444263</b> | 22. Page<br><b>3</b> | 23. Manifest Tracking Number<br><b>004717282 JJK</b> |                  |                 |          |
| 24. Generator's Name<br><b>Triumvirate Environmental Outbound</b><br><b>42-14 19th Ave.</b><br><b>Astoria, NY 11105</b>                                                                           |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
| 25. Transporter <b>3</b> Company Name                                                                                                                                                             |                                                                                                                 |                                                |                      | U.S. EPA ID Number                                   |                  |                 |          |
| 26. Transporter <b>4</b> Company Name                                                                                                                                                             |                                                                                                                 |                                                |                      | U.S. EPA ID Number                                   |                  |                 |          |
| 27a.<br>(HM)                                                                                                                                                                                      | 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 28. Containers                                 |                      | 29. Total Quantity                                   | 30. Unit WL/Vol. | 31. Waste Codes |          |
|                                                                                                                                                                                                   |                                                                                                                 | No.                                            | Type                 |                                                      |                  |                 |          |
|                                                                                                                                                                                                   | <b>15 Non-regulated material</b>                                                                                | <b>002</b>                                     | <b>DF</b>            | <b>00042</b>                                         | <b>P</b>         |                 | <b>B</b> |
|                                                                                                                                                                                                   | <b>16 Non-regulated material</b>                                                                                | <b>033</b>                                     | <b>DF</b>            | <b>04309</b>                                         | <b>P</b>         |                 | <b>B</b> |
|                                                                                                                                                                                                   | <b>17 Non-regulated material</b>                                                                                | <b>002</b>                                     | <b>CF</b>            | <b>00700</b>                                         | <b>P</b>         |                 | <b>B</b> |
|                                                                                                                                                                                                   | <b>18 Non-regulated material</b>                                                                                | <b>001</b>                                     | <b>DF</b>            | <b>00044</b>                                         | <b>P</b>         |                 | <b>B</b> |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
|                                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
| 32. Special Handling Instructions and Additional Information<br><b>15 - (2 x 16) 84227 16 - (33 x 55) 84342 17 - (2 x Cubic Yard Box) 84227 18 - (1 x 30) 84342 19 - 20 - 21 - 22 - 23 - 24 -</b> |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
| 33. Transporter <b>3</b> Acknowledgment of Receipt of Materials                                                                                                                                   |                                                                                                                 | Signature                                      |                      | Month Day Year                                       |                  |                 |          |
| Printed/Typed Name                                                                                                                                                                                |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
| 34. Transporter <b>4</b> Acknowledgment of Receipt of Materials                                                                                                                                   |                                                                                                                 | Signature                                      |                      | Month Day Year                                       |                  |                 |          |
| Printed/Typed Name                                                                                                                                                                                |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
| 35. Discrepancy                                                                                                                                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
| 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)                                                                   |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |
| <b>H040 H040 H040 H040</b>                                                                                                                                                                        |                                                                                                                 |                                                |                      |                                                      |                  |                 |          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|-----------------------------------------------------|-------------------|-----------------|---|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                               | 1. Generator ID Number<br><b>NYD077444263</b>                                                                  | 2. Page 1 of <b>4</b>      | 3. Emergency Response Phone<br><b>1-800-966-9282</b>              | 4. Manifest Tracking Number<br><b>004723827 JJK</b> |                   |                 |   |
| 5. Generator's Name and Mailing Address<br><b>Triumvirate Environmental Outbound</b><br><b>42-14 19th Ave.</b><br><b>Astoria, NY 11105</b><br>Generator's Phone: <b>(718)274-3335</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
| Generator's Site Address (if different than mailing address)<br><b>42-14 19th Avenue</b><br><b>Astoria, New York 11105</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
| 6. Transporter 1 Company Name<br><b>PLANKS VACUUM TRUCK SERVICE, Inc.</b><br><b>Ross Transportation Services</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            | U.S. EPA ID Number<br><b>NYD982792814</b><br><b>OH D980614374</b> |                                                     |                   |                 |   |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            | U.S. EPA ID Number                                                |                                                     |                   |                 |   |
| 8. Designated Facility Name and Site Address<br><b>Ross Incineration Services, Inc.</b><br><b>36790 Giles Road</b><br><b>Grafton, OH 44044</b><br>Facility's Phone: <b>(440) 748-5800</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            | U.S. EPA ID Number<br><b>OH D048415665</b>                        |                                                     |                   |                 |   |
| GENERATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9a. HM                                                                                                                                                                                                                                                                                        | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers<br>No. Type |                                                                   | 11. Total Quantity                                  | 12. Unit Wt./Vol. | 13. Waste Codes |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | X                                                                                                                                                                                                                                                                                             | 1. Waste Flammable liquids, n.o.s. 3, UN1993, II (Methanol, Thin Prep Vials)                                   | 001 DM                     |                                                                   | 00290                                               | P                 | D001            | B |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | X                                                                                                                                                                                                                                                                                             | 2. Toxic solids, organic, n.o.s. 6.1, UN2811, II (Sodium fluoride, Ethidium Bromide)                           | 001 DF                     |                                                                   | 00065                                               | P                 |                 | B |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | X                                                                                                                                                                                                                                                                                             | 3. Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II (Ethyl Acetate, Methanol)                         | 001 DM                     |                                                                   | 00056                                               | P                 | D001            | B |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | X                                                                                                                                                                                                                                                                                             | 4. Hazardous waste, solid, n.o.s. 9, NA3077, III Silica gel, Chloroform                                        | 001 DF                     |                                                                   | 00039                                               | P                 | D022 F002       | B |
| 14. Special Handling Instructions and Additional Information<br>1- (1x55) 68808    2- (1x30) 64341    3- (1x30) 64343    4- (1x5) 64231    TEL # 124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.<br>Generator's/Offeror's Printed/Typed Name: <b>Christopher Canale</b> Signature: <i>[Signature]</i> Month: <b>03</b> Day: <b>18</b> Year: <b>09</b> |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
| TRANSPORTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.    Port of entry/exit:    Date leaving U.S.:                                                                                                                                    |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17. Transporter Acknowledgment of Receipt of Materials<br>Transporter 1 Printed/Typed Name: <b>COREY GRIND</b> Signature: <i>[Signature]</i> Month: <b>03</b> Day: <b>18</b> Year: <b>09</b><br>Transporter 2 Printed/Typed Name:    Signature:    Month:    Day:    Year:                    |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
| DESIGNATED FACILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 18. Discrepancy<br>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection<br>Manifest Reference Number:    U.S. EPA ID Number: |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18b. Alternate Facility (or Generator)    U.S. EPA ID Number:                                                                                                                                                                                                                                 |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Facility's Phone:    18c. Signature of Alternate Facility (or Generator)    Month:    Day:    Year:                                                                                                                                                                                           |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)<br>1. <b>H1040</b> 2. <b>H1040</b> 3. <b>H1040</b> 4. <b>H1040</b>                                                                                            |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a<br>Printed/Typed Name: <b>LIZ LOCZI</b> Signature: <i>[Signature]</i> Month: <b>03</b> Day: <b>20</b> Year: <b>09</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                               |                                                                                                                |                            |                                                                   |                                                     |                   |                 |   |

|                                                                                                                                                             |                                                                                                                                                                                                                     |                                                                                                                 |  |                            |                                               |                    |                     |                 |         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|----------------------------|-----------------------------------------------|--------------------|---------------------|-----------------|---------|--|
| UNIFORM HAZARDOUS WASTE MANIFEST<br>(Continuation Sheet)                                                                                                    |                                                                                                                                                                                                                     | 21. Generator ID Number<br>NYD077444263                                                                         |  | 22. Page<br>2              | 23. Manifest Tracking Number<br>004723827 JJK |                    |                     |                 |         |  |
| 24. Generator's Name<br>Triumvirate Environmental Outbound<br>42-14 19th Ave.<br>Astoria, NY 11105                                                          |                                                                                                                                                                                                                     |                                                                                                                 |  |                            |                                               |                    |                     |                 |         |  |
| 25. Transporter <u>3</u> Company Name                                                                                                                       |                                                                                                                                                                                                                     |                                                                                                                 |  |                            | U.S. EPA ID Number                            |                    |                     |                 |         |  |
| 26. Transporter <u>4</u> Company Name                                                                                                                       |                                                                                                                                                                                                                     |                                                                                                                 |  |                            | U.S. EPA ID Number                            |                    |                     |                 |         |  |
| GENERATOR                                                                                                                                                   | 27a. HM                                                                                                                                                                                                             | 27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) |  | 28. Containers<br>No. Type |                                               | 29. Total Quantity | 30. Unit<br>WL/Vol. | 31. Waste Codes |         |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 5 Toxic solids, organic, n.o.s. 6.1, UN2811, II<br>(Sodium fluoride, Ethidium Bromide)                          |  | 001                        | DF                                            | 00084              | P                   |                 | B       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 6 Waste Corrosive liquid, basic, organic, n.o.s. 8, UN3267, II<br>ethanolamine, sodium hydroxide                |  | 001                        | DF                                            | 00107              | P                   | D002            | B       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 7 Waste Corrosive liquid, acidic, organic, n.o.s. 8, UN3265, II<br>Formic Acid, Acetic Acid                     |  | 001                        | DF                                            | 00151              | P                   | D002            | T       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 8 Hazardous waste, solid, n.o.s. 9, NA3077, III<br>Silica gel, Chloroform                                       |  | 001                        | DM                                            | 00125              | P                   | F003            | B       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 9 Waste Solids containing flammable liquid, n.o.s. 4.1, UN3175, II<br>(Acetone, Calcium Sulfate)                |  | 001                        | DM                                            | 00144              | P                   | D001, F003      | F005, B |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 10 Waste Flammable liquids, n.o.s. 3, UN1993, II<br>(Methanol, Thin Prep Vials)                                 |  | 001                        | DF                                            | 00030              | P                   | D001, F003      | B       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 11 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II<br>(Ethyl Acetate, Methanol)                       |  | 001                        | DM                                            | 00189              | P                   | D001, F003      | B       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 12 Waste Flammable liquids, n.o.s. 3, UN1993, II<br>Ethanol, Acetone                                            |  | 001                        | DM                                            | 00450              | P                   | D001, F003      | B       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 13 Waste Flammable liquids, n.o.s. 3, UN1993, II<br>Ethanol, Acetone                                            |  | 003                        | DF                                            | 00723              | P                   | D001, F003      | B       |  |
|                                                                                                                                                             | X                                                                                                                                                                                                                   | 14 Waste Flammable liquids, n.o.s. 3, UN1993, II<br>(Methanol, Thin Prep Vials)                                 |  | 003                        | DM                                            | 00381              | P                   | D001, F003      | B       |  |
|                                                                                                                                                             | 32. Special Handling Instructions and Additional Information<br>5-(1x55)64341 6-(1x55)64348 7-(1x55)64346 8-(1x55)64231 9-(1x55)20143 10-(1x16)66609 11-(1x55)64343<br>12-(1x55)64236 13-(3x30)64238 14-(3x55)66609 |                                                                                                                 |  |                            |                                               |                    |                     |                 |         |  |
|                                                                                                                                                             | DESIGNATED FACILITY                                                                                                                                                                                                 | 33. Transporter <u>3</u> Acknowledgment of Receipt of Materials<br>Printed/Typed Name Signature Month Day Year  |  |                            |                                               |                    |                     |                 |         |  |
|                                                                                                                                                             |                                                                                                                                                                                                                     | 34. Transporter <u>4</u> Acknowledgment of Receipt of Materials<br>Printed/Typed Name Signature Month Day Year  |  |                            |                                               |                    |                     |                 |         |  |
| 35. Discrepancy                                                                                                                                             |                                                                                                                                                                                                                     |                                                                                                                 |  |                            |                                               |                    |                     |                 |         |  |
| 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)<br>H040 H040 H040 H040 H040 |                                                                                                                                                                                                                     |                                                                                                                 |  |                            |                                               |                    |                     |                 |         |  |

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**  
(Continuation Sheet)

21. Generator ID Number

NY D 0 7 7 4 4 4 2 6 3

22. Page

3

23. Manifest Tracking Number

004723827 JJK

24. Generator's Name

Triumvirate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

25. Transporter 3 Company Name

U.S. EPA ID Number

26. Transporter 4 Company Name

U.S. EPA ID Number

27a. HM 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt/Vol

31. Waste Codes

X 15 Waste Solids containing corrosive liquid, n.o.s. 8, UN3244, II

003

DF

00021

P

D002

X 16 Waste Ethylenediamine 8(3), UN1604, II  
(RQ: D001, D002)

001

DM

00185

P

D001

D002

X 17 Waste Flammable liquids, n.o.s. 3, UN1993, II  
Ethanol, Acetone

003

DF

00778

P

D001

D004

D005

X 18 Hazardous waste, liquid, n.o.s. 9, NA3082, III  
(Tetrachloroethylene, Trichloroethylene)

002

DM

00540

P

D039

D040

F002

X 19 ~~Waste Flammable liquids, corrosive, n.o.s. 3(8), UN2924, II~~  
~~Pyridine, Formaldehyde~~

002

DF

00502

P

D001

D002

X 20 Waste Flammable liquids, n.o.s. 3, UN1993, II  
(Methanol, Thin Prep Vials)

002

DF

00095

P

D001

F003

X 21 Waste Solids containing flammable liquid, n.o.s. 4.1, UN3175, II  
(paraffin wax, xylene)

002

DF

00113

P

D001

F003

22 Non-regulated material - Non-PCB Ballasts

4 Not Shipped 4

001

DF

00480

P

23 Non-regulated material

012

DF

01386

P

24 Non-regulated material

001

DF

00007

P

32. Special Handling Instructions and Additional Information

16 - (3x5) 66603 18 - (1x55) 20116 17 - (3x30) 64236 19 - (2x55) 87034 19 - (2x30) 64236 20 - (2x30) 66608 21 - (2x16) 20043 22 - (1x55) 89904 23 - (12x55) 64342 24 - (1x5) 64342

Not Shipped

DESIGNATED FACILITY

33. Transporter 3 Acknowledgment of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

34. Transporter 4 Acknowledgment of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040

H040

H040

H040

H040

H040

H040

H040

H040

H040

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pin)ewriter.)

Seal # 0102556

XXXXX

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator ID Number

NYD077444263

2. Page 1 of 3

3. Emergency Response Phone

1-800-966-9262

4. Manifest Tracking Number

004717227 JJK

5. Generator's Name and Mailing Address

Triumvirate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

Generator's Site Address (if different than mailing address)

42-14 19th Avenue  
Astoria, New York 11105

Generator's Phone:

(718)274-3335

6. Transporter 1 Company Name

Ross Transportation Services

U.S. EPA ID Number

OH D980614374

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ross Incineration Services, Inc.  
36790 Giles Road  
Grafton, OH 44044

U.S. EPA ID Number

Facility's Phone:

(440) 748-5800

9a. HM

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

OH D048415685

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt/Vol.

13. Waste Codes

X 1. Waste Corrosive liquids, toxic, n.o.s. 8(6.1), UN2922, II  
(Acetic Acid, Silver Chloride)

004

DF

00982

P

D002

X 2. Waste Corrosive liquids, flammable, n.o.s. 8(3), UN2920, II  
(Formic Acid, Acetic Acid)

001

DM

00092

P

D001

D002

X 3. Toxic solids, organic, n.o.s. 6.1, UN2811, II  
(Sodium fluoride, Ethidium Bromide)

001

DF

00174

P

X 4. Waste Corrosive liquids, toxic, n.o.s. 8(6.1), UN2922, II  
(Acetic Acid, Silver Chloride)

001

DF

00440

P

D002

14. Special Handling Instructions and Additional Information

1- (4 x 30) 84233

2- (1 x 30) 84348

3- (1 x 55) 84341

4- (1 x 55) 84233

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

TEL Job #: 760

Generator's/Officer's Printed/Typed Name

Dilip Jeiram

Signature

Month Day Year

11 19 08

16. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit

Date leaving U.S.

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

JACOB MacKELGAN

Signature

Month Day Year

Transporter 2 Printed/Typed Name

JACOB MacKELGAN

Signature

Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space

☒ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

SEE PAGE 3 (35)

18b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040

2. H040

3. H040

4. H040

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 18a

Printed/Typed Name

Rebecca L. Winkler

Signature

Month Day Year

11/21/08

| UNIFORM HAZARDOUS WASTE MANIFEST<br>(Continuation Sheet)                                                                                                                                                            |                                                                                                                 | 21. Generator ID Number<br>N Y D 0 7 7 4 4 4 2 6 3 | 22. Page<br>2 | 23. Manifest Tracking Number<br>004717227 JJK |                     |                 |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------|-----------------------------------------------|---------------------|-----------------|------|------|
| 24. Generator's Name<br>Triumvirate Environmental Outbound<br>42-14 19th Ave.<br>Astoria, NY 11105                                                                                                                  |                                                                                                                 |                                                    |               |                                               |                     |                 |      |      |
| 25. Transporter 3 Company Name                                                                                                                                                                                      |                                                                                                                 | U.S. EPA ID Number                                 |               |                                               |                     |                 |      |      |
| 26. Transporter 4 Company Name                                                                                                                                                                                      |                                                                                                                 | U.S. EPA ID Number                                 |               |                                               |                     |                 |      |      |
| 27a. HM- and Packing Group (if any)                                                                                                                                                                                 | 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 28. Containers<br>No. Type                         |               | 29. Total Quantity                            | 30. Unit<br>WL/Vol. | 31. Waste Codes |      |      |
| X                                                                                                                                                                                                                   | 5 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II<br>(Ethyl Acetate, Methanol)                        | 001                                                | DM            | 00176                                         | P                   | D001            | F003 | U22C |
| X                                                                                                                                                                                                                   | 6 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II<br>(Ethyl Acetate, Methanol)                        | 001                                                | DM            | 00187                                         | P                   | U239            |      | B    |
| X                                                                                                                                                                                                                   | 7 Waste Flammable liquid, toxic, corrosive, n.o.s. 3(6.1)(8), UN3286,<br>II<br>Methanol, Chloroform             | 001                                                | DM            | 00190                                         | P                   | D001            | U031 | U22C |
| X                                                                                                                                                                                                                   | 8 Waste Flammable liquid, toxic, corrosive, n.o.s. 3(6.1)(8), UN3286,<br>II<br>Methanol, Chloroform             | 001                                                | DM            | 00198                                         | P                   | U239            |      | B    |
| X                                                                                                                                                                                                                   | 9 Waste Flammable liquids, n.o.s. 3, UN1993, II<br>(Methanol, Thin Prep Vials)                                  | 001                                                | DM            | 00205                                         | P                   | D001            | D002 | F003 |
| X                                                                                                                                                                                                                   | 10 Hazardous waste, liquid, n.o.s. 9, NA3082, III<br>(Tetrachloroethylene, Trichloroethylene)                   | 001                                                | DM            | 00261                                         | P                   |                 |      | B    |
| X                                                                                                                                                                                                                   | 11 Hazardous waste, solid, n.o.s. 9, NA3077, III<br>Silica gel, Chloroform                                      | 001                                                | DF            | 00261                                         | P                   | F002            |      | B    |
| X                                                                                                                                                                                                                   | 12 Hazardous waste, liquid, n.o.s. 9, NA3082, III<br>(Tetrachloroethylene, Trichloroethylene)                   | 009                                                | DM            | 02700                                         | P                   | D039            | F002 | F003 |
| X                                                                                                                                                                                                                   | 13 Waste Flammable liquids, n.o.s. 3, UN1993, II<br>Ethanol, Acetone                                            | 002                                                | DM            | 00200                                         | P                   | D039            | D040 | F002 |
| X                                                                                                                                                                                                                   | 14 Waste Aerosols, 2.1, UN1950<br>(Petroleum Distillates)<br>(EPA: D001) DOT SP 11396                           | 002                                                | DM            | 00930                                         | P                   | F003            |      | B    |
| 32. Special Handling Instructions and Additional Information<br>6-(1x55)64343 6-(1x55)64343 7-(1x55)64347 8-(1x55)64347 8-(1x55)68888 10-(1x30)67034 11-(9x55)64231<br>12-(2x55)67034 13-(2x55)64238 14-(4x55)68888 |                                                                                                                 | 004                                                |               | DM                                            | 00335               | P               | D001 |      |
| 33. Transporter 3 Acknowledgment of Receipt of Materials<br>Printed/Typed Name                                                                                                                                      |                                                                                                                 | Signature                                          |               | Month Day Year                                |                     |                 |      |      |
| 34. Transporter 4 Acknowledgment of Receipt of Materials<br>Printed/Typed Name                                                                                                                                      |                                                                                                                 | Signature                                          |               | Month Day Year                                |                     |                 |      |      |
| 35. Discrepancy                                                                                                                                                                                                     |                                                                                                                 |                                                    |               | Month Day Year                                |                     |                 |      |      |
| 36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)                                                                                     |                                                                                                                 | H040 H040 H040 H040 H040                           |               |                                               |                     |                 |      |      |

UNIFORM HAZARDOUS WASTE MANIFEST  
(Continuation Sheet)

21. Generator ID Number

NYD077444263

22. Page

3

23. Manifest Tracking Number

004717227 JJK

24. Generator's Name

Triumvirate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

25. Transporter 3 Company Name

U.S. EPA ID Number

26. Transporter 4 Company Name

U.S. EPA ID Number

27a.  
HM27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,  
and Packing Group (if any))

28. Containers

No.

Type

29. Total  
Quantity30. Unit  
WT/Vol.

31. Waste Codes

X

15 Waste Flammable liquids, n.o.s. 3, UN1993, II  
Ethanol, Acetone

005

DF

01105

P

D001

F003

B

X

16 Waste Corrosive liquids, toxic, n.o.s. 8(6.1), UN2922, II  
(Acetic Acid, Silver Chloride)

007

DM

03388

P

D002

B

X

17 Waste Corrosive liquid, basic, organic, n.o.s. 8, UN3267, II  
(Potassium Hydroxide, Hydroquinone)

001

DM

00412

P

D002

B

18 Non-regulated material

008

DF

01500

P

B

19 Non-regulated material

004

DM

00449

P

B

20 Non-regulated material (Ethidium Bromide)

001

DM

00089

P

B

32. Special Handling Instructions and Additional Information

15 - (5 x 30) 64230 16 - (7 x 55) 64233

17 - (1 x 55) 64234

18 - (8 x 55) 64342

19 - (3 x 55) 64342

20 - (1 x 30) 67625

21 - 22 -

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

LINE 19 UPDATED TO REFLECT RIS RECEIPTS T. SPARROW

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040

H040

H040

H040

H040

106788

TR 281

Please print or type. (Form designed for use on elite (12-pin) typewriter.)

X0000

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator ID Number

NYD077444263

2. Page 1 of

3

3. Emergency Response Phone

1-800-966-9282

4. Manifest Tracking Number

004717238

JJK

5. Generator's Name and Mailing Address

Triumvirate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

Generator's Site Address (if different than mailing address)

42-14 19th Avenue  
Astoria, New York 11105

Generator's Phone:

(718)274-3335

6. Transporter 1 Company Name

Ross Transportation Services

U.S. EPA ID Number

OHD980614374

U.S. EPA ID Number

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ross Incineration Services, Inc.  
36790 Giles Road  
Grafton, OH 44044

Facility's Phone:

(440) 748-5800

9a. HM

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

OHD048415665

10. Containers

No.

Type

11. Total  
Quantity12. Unit  
Wt/Vol

13. Waste Codes

X

1. Waste Flammable liquids, n.o.s. 3, UN1993, II  
(Methanol, Thin Prep Vials)

002

DF

00067

P

D001

F003

X

2. Hazardous waste, liquid, n.o.s. 9, NA3082, III  
(Tetrachloroethylene, Trichloroethylene)

003

DM

01200

P

F002

F003

X

3. Waste Corrosive liquid, basic, organic, n.o.s. 8, UN3267, II  
(ethanolamine, sodium hydroxide)

001

DF

00143

P

D002

X

4. Waste Aerosols, 2.1, UN1950  
(Petroleum Distillates)  
(RQ: D001) DOT SP 11396

005

DM

00674

P

D001

14. Special Handling Instructions and Additional Information

1- (2 x 10) 68609

2-

(3 x 55) 67034

3-

(1 x 55) 64346

4-

(5 x 55) 66888

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Officer's Printed/Typed Name

Dilip Jaram

Signature

Month Day Year

12/03/08

16. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

David J Teleha

Signature

Month Day Year

12/03/08

Transporter 2 Printed/Typed Name

Signature

Month Day Year

12/03/08

18. Discrepancy

18a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

18b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H1040

2. H1040

3. H1040

4. H1040

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name

Signature

Month Day Year

12/03/08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-p.) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**  
(Continuation Sheet)

21. Generator ID Number

NYD077444263

22. Page

2

23. Manifest Tracking Number

004717238 JJK

24. Generator's Name

Triumvirate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

25. Transporter 3 Company Name

U.S. EPA ID Number

26. Transporter 4 Company Name

U.S. EPA ID Number

27a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

X 5 Waste Hypochlorite solutions 8, UN1791, II  
Sodium Hypochlorite

001

DF

00200

P

D002

B

X 6 Waste Flammable liquids, n.o.s. 3, UN1993, II  
(Methanol, Thin Prep Vials)

002

DM

00364

P

D001

F003

B

X 7 Hazardous waste, liquid, n.o.s. 9, NA3082, III  
(Tetrachloroethylene, Trichloroethylene)

001

DM

00015

P

D039

D040

F002

X 8 Waste Corrosive liquid, acidic, inorganic, n.o.s. 8, UN3264, II  
(Hydrochloric Acid, Sulfuric Acid)

001

DM

00200

P

D002

B

X 9 Waste Corrosive liquid, basic, organic, n.o.s. 8, UN3267, II  
ethanolamine, sodium hydroxide

001

DM

00200

P

D002

D011

B

X 10 Waste Corrosive liquid, acidic, inorganic, n.o.s. 8, UN3264, II  
(Hydrochloric Acid, Sulfuric Acid)

001

DM

00078

P

D002

B

X 11 Toxic solids, organic, n.o.s. 6.1, UN2811, II  
(Sodium fluoride, Ethidium Bromide)

001

DM

00222

P

D001

D002

B

X 12 Waste Corrosive liquids, flammable, n.o.s. 8(3), UN2920, II  
(Formic Acid, Acetic Acid)

001

DM

00219

P

D001

D002

B

13 Non-regulated material

008

DF

01172

P

B

14 Non-regulated material

002

DF

00078

P

B

32. Special Handling Instructions and Additional Information

5-(1x55) 84497 6-(2x55) 88808 7-(1x55) 87034 8-(1x55) 88890 9-(1x55) 84348 10-(1x38) 88890 11-(1x55) 84341  
12-(1x55) 84348 13-(8x55) 84342 14-(2x5) 84228

33. Transporter 3 Acknowledgment of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

34. Transporter 4 Acknowledgment of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040 H040 H040 H040 H040  
H040 H040 H040 H040 H040

UNIFORM HAZARDOUS WASTE MANIFEST  
(Continuation Sheet)

21. Generator ID Number

NYD077444263

22. Page

3

23. Manifest Tracking Number

004717238 JJK

24. Generator's Name

Triumvirate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

25. Transporter 3 Company Name

U.S. EPA ID Number

26. Transporter 4 Company Name

U.S. EPA ID Number

27a.  
HM

27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total  
Quantity30. Unit  
WL/Vol.

31. Waste Codes

15 Non-regulated material

005

DM

00916

P

B

16 Non-regulated material

003

DM

00335

P

B

17 Non-regulated material

001

CW

00250

P

B

GENERATOR

32. Special Handling Instructions and Additional Information

15 - (5 x 55) 64342 16 - (3 x 30) 64342 17 - (1 x pallet) 64227 18 - 19 - 20 - 21 - 22 - 23 - 24 -

33. Transporter 3 Acknowledgment of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

34. Transporter 4 Acknowledgment of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040

H040

H040

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

XXXXX

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**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator ID Number

NYD077444263

2. Page 1 of 2

3. Emergency Response Phone

1-800-966-9282

4. Manifest Tracking Number

001017971 JJK

5. Generator's Name and Mailing Address

Triumvirate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

Generator's Site Address (if different than mailing address)

42-14 19th Avenue  
Astoria, New York 11105

Generator's Phone:

(718)274-3336

6. Transporter 1 Company Name

Ross Transportation Services

U.S. EPA ID Number

OH D 9 8 0 6 1 4 3 7 4

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Ross Incineration Services, Inc.  
36790 Giles Road  
Grafton, OH 44044

U.S. EPA ID Number

Facility's Phone:

(440) 748-5800

OH D 0 4 8 4 1 5 6 6 5

9a. HM

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt/Vol.

13. Waste Codes

X 1 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II  
(Ethyl Acetate, Methanol)

0 0 1

DM

0 0 1 2 5

P

D001

F003

X 2 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II  
(Ethyl Acetate, Methanol)

0 0 1

DF

0 0 0 2 0

P

D001

B

X 3 Waste Paint related material 3, UN1263, II

0 0 1

DF

0 0 2 0 2

P

D001

B

X 4 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II  
(Ethyl Acetate, Methanol)

0 0 1

DF

0 0 0 7 1

P

D001

F003

B

14. Special Handling Instructions and Additional Information

1- (1 x 30) 64343

2- (1 x 5) 64343

3-

(1 x 55) 64345

4-

(1 x 55) 64343

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Officer's Printed/Typed Name

DILIP JAIRAM

Signature

Month Day Year

01 07 08

16. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Part of entry/exit  
Date leaving U.S.:

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Mark Schmidt

Signature

Month Day Year

01 07 08

Transporter 2 Printed/Typed Name

Signature

Month Day Year

01 07 08

18. Discrepancy

18a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

18b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H1040

2. H1040

3. H040

4. H1040

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name

Barbara Stainer

Signature

Month Day Year

01 09 08

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**  
(Continuation Sheet)

21. Generator ID Number

NYD077444263

22. Page

2

23. Manifest Tracking Number

001017971 JJK

24. Generator's Name

Thunivrate Environmental Outbound  
42-14 19th Ave.  
Astoria, NY 11105

25. Transporter 3 Company Name

U.S. EPA ID Number

26. Transporter 4 Company Name

U.S. EPA ID Number

27a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. U.S. Unit: Wt/Vol.

31. Waste Codes

X 5 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II  
(Ethyl Acetate, Methanol)

001

DM

00155

P

D001

B

X 6 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II  
(Ethyl Acetate, Methanol)

001

DM

00195

P

D001

F003

F005

X 7 Waste Flammable liquid, toxic, corrosive, n.o.s. 3(6.1)(8), UN3286,  
II

001

DM

00282

P

D001

D002

D002

Methanol, Chloroform

X 8 Hazardous waste, liquid, n.o.s. 9, NA3082, III  
(Tetrachloroethylene, Trichloroethylene)

001

DM

00300

P

F002

F003

B

X 9 Waste Flammable liquids, toxic, n.o.s. 3(6.1), UN1992, II  
(Ethyl Acetate, Methanol)

001

DM

00300

P

D039

D040

F002

F003

B

10 Non-regulated material

002

DM

00428

P

B

11 Non-regulated material

007

DM

01319

P

B

12 Non-regulated material

001

DM

00063

P

B

13 Non-regulated material

001

DF

00008

P

B

001

DF

00092

P

B

32. Special Handling Instructions and Additional Information

5-(1x55)84343 6-(1x55)84343 7-(1x55)84347 8-(1x55)87034 9-(2x55)84343 10-(7x55)84342 11-(1x30)84342  
12-(1x5)84342 13-(1x30)84342 14-

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H040

H040

H040

H040

H040

H040

H040

H040

H040

H040