

TechCity Properties, Inc.

**Parcels 1 and 4A  
Investigation Report**

*TechCity Campus  
300 Enterprise Drive  
Kingston, New York 12401-7004*

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ERM Project No. 0096812 Phase 06  
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**ACRONYMS & ABBREVIATIONS**

ASP	Analytical Services Protocol
CaCO <sub>3</sub>	Calcium Carbonate
DOT	Department of Transportation
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Accreditation Program
GPR	Ground Penetrating Radar
HCl	Hydrochloric Acid
HVAC	Heating, Ventilation, and Air Conditioning
mL	Millileter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
SOP	Standard Operating Procedure
TCE	Trichloroethylene
TV	Television
ug/L	Micrograms per Liter
ug/m <sup>3</sup>	Micrograms per Cubic Meter
USEPA	United States Environmental Protection Agency
VOA	Volatile Organic Analysis
VOC	Volatile Organic Compound

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**EXECUTIVE SUMMARY**

As part of a RCRA permit modification application, ERM conducted a soil and ground water investigation at two parcels of land associated with the TechCity facility in Kingston, New York (the Site). The purpose of the investigation was to evaluate environmental conditions at each parcel.

The parcels investigated are identified as Parcels 1 and 4A. Parcel 1 is located on the west side of Enterprise Drive and Parcel 4A is located at the northeast corner of the Site. All sample locations were presented to and approved by the NYSDEC in a Work Plan dated 4 March 2009, and through subsequent field modifications in the presence of TechCity personnel and Mr. Gary Casper of the NYSDEC.

Soil samples, ground water samples and vapor samples were collected from Parcels 1 and 4A during this investigation. ERM evaluated the lateral and vertical extent of the clay unit underlying Parcel 1; the lateral extent of the perennially saturated sand unit associated with the ground water contamination in the east side of Enterprise Drive; and the integrity of the 42-inch storm drain that demarcates the southern boundary of affected ground water at the site.

The investigation confirmed that the clay unit beneath Parcel 1 rises in elevation to the west of Enterprise Drive and acts as a barrier to westward ground water flow. This is depicted by the shallow ground water flow map included in this report (Figure 4). The television inspection and data logging of the 42-inch storm sewer confirmed that the storm sewer intersects ground water flow and “captures” part of the plume through infiltration into the sewer line.

ERM resampled MW-123AS on Parcel 4A as requested by the NYSDEC and did not detect any VOCs in ground water at concentrations exceeding the applicable ground water standards. It is ERM’s opinion that the “one previous detection” of trichloroethylene (TCE) was spurious. One sub-slab vapor sample collected in the vicinity of MW-123AS during ERM’s investigation did not contain TCE at a concentration exceeding the laboratory reporting limit. To further assess the area, ERM conducted a follow-up a soil vapor survey in this area to confirm the absence of an additional source area. TCE was not detected at levels exceeding the exceeding the New York State Department of Health (NYSDOH) guidance value during the follow-up sampling event.

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Although a ground water use limitation on a portion of Parcel 1 may be protective of human health and the environment; it is ERM's opinion that both parcels can be removed from the permit without incurring environmental risk to human health and the environment.

TechCity and IBM are co-permittees on a RCRA permit for the TechCity facility in Kingston New York. TechCity, in cooperation with IBM and with the support of the NYSDEC, is in the process of modifying the permit by removing parcels of land that are not impaired and that do not pose a risk to human health and the environment. The parcels that are currently contemplated for removal are Parcels 1 and 4A.

This report summarizes the findings of the Parcel 1 and 4A investigation at the TechCity facility, located in Kingston, New York. This project was conducted in accordance with the Revised Site Investigation Work Plan (the Work Plan) submitted to the New York State Department of Environmental Conservation (NYSDEC) dated 4 March 2009, which was approved (along with several modifications to the scope of work) by the NYSDEC in a letter dated 30 March 2009 and by the NYSDEC during field work. The investigation was conducted to address outstanding issues that relate to the pending Part 373 Permit Modification to remove Parcels 1 and 4A from the permit at TechCity.

On 14 August 2007, a request to modify TechCity's Part 373 Permit (Permit No. 3-5154-00067-00090) was submitted to the NYSDEC. The request was submitted as part of a Response to NYSDEC Comments for Post-Closure Permit Modification previously submitted by Divney Tung Schwable (Divney) on behalf of TechCity. The requested modification was the removal of Parcels 1 and 4A from the permit.

On 7 November 2007, the NYSDEC responded to the request with a Notice of Incomplete Application. The Notice was accompanied by a list of comments that related to the Divney request.

On behalf of TechCity, ERM worked with the NYSDEC to develop a scope of work to conduct further investigation on Parcels 1 and 4A, in response to the above-mentioned Notice of Incomplete Application. The goal of additional investigation was to generate data required by the NYSDEC to consider the removal of the two parcels from the Part 373 permit.

ERM began the initial phases of the investigation of Parcels 1 and 4A on 24 February 2009 by conducting a utility location survey and collecting ground water samples from pre-existing wells. All work was conducted in an expedited fashion as "time was of the essence." The Work Plan was reviewed and verbally approved by the NYSDEC on 4 March 2009. Following the Work Plan approval, ERM initiated drilling, monitoring well installation, ground water sampling (from newly installed wells), and soil vapor sampling at the two parcels.

This report provides the NYSDEC with the data requested to achieve the goals stated above.

The Scope of Work (SOW), as outlined in the Work Plan, is identified and described in detail below. The SOW is separated into two areas of the Site: Parcel 1 and Parcel 4A. Tasks were performed in accordance with Standard Operating Procedures (SOPs) as outlined in the Work Plan. Due to the varying field conditions at the two parcels, there were location-specific modifications to the Work Plan that were discussed and approved by the NYSDEC. These modifications will be discussed in the appropriate sections of this report. Modifications were formally approved by the NYSDEC in the 30 March 2009 NYSDEC Work Plan approval letter.

A Site Location Map is presented as Figure 1. Site Layout Maps showing pertinent features related to Parcel 1 and Parcel 4A are presented in Figures 2 and 3, respectively.

**3.1*****PARCEL 1*****3.1.1*****42-INCH STORM DRAIN***

One of the specific goals of the Work Plan was to evaluate the role of the 42-inch storm drain line that has been reported to bound the southern and southwestern extent of the plume during previous sampling efforts. To assess the efficacy of the 42-inch storm drain line as a hydraulic barrier, ERM conducted the tasks listed below.

- ERM installed five new monitoring wells on Parcel 1; MW-18, MW-19, MW-20, MW-21 and MW-22.
- ERM collected a complete round of ground water levels from all accessible ground water monitoring wells on Parcel 1 on 23 March 2009, which included pre-existing wells in addition to the new wells installed by ERM during the investigation. Depth to ground water and ground water elevations collected on 23 March 2009 are listed in Table 1. A shallow ground water elevation map is included as Figure 4.
- ERM conducted ground penetrating radar (GPR) evaluation to identify the location of the 42-inch storm water drain line as it crosses Parcel 1 between Enterprise Drive and Building 201. The GPR survey was conducted by ERM's subcontractor, New York Leak Detection, of Jamesville, New York on 25 February 2009.
- ERM installed pressure transducers with data logging capability in existing monitoring wells MW-173S and MW-174S, and within the

manhole access point to the 42-inch storm water drain line proximal to the wells to compare water levels in the shallow monitoring wells to water levels in the storm water drain line. The data loggers were deployed on 1 April 2009 and were retrieved on 15 April 2009. Ground water elevations and the relative elevations of water within the storm water line collected during the deployment period are summarized in Table 2. A graphical representation of data collected during the pressure transducer deployment is included as Figure 11.

- ERM's subcontractor, Clean Harbors Environmental Services, of Newburgh, New York conducted a video camera inspection of portions of the 42-inch storm sewer drain line. The inspection was conducted using closed circuit television (TV) inspection equipment to confirm construction methodology, and to evaluate the pipe for the presence of ground water infiltration. Because of a significant buildup of sand and gravel, and slippage of the pipe seams, the entire length of the pipe could not be inspected. A total of 473.7-feet of the pipe was inspected (out of an approximate length of 1,000-feet). A DVD copy of the pipeline observation reports for each stretch of pipe inspected is included as Appendix A.

### 3.1.2

#### *EXTENT OF PERMEABLE SATURATED SAND*

The following tasks were performed to obtain additional data to evaluate the western extent of the horizontal sand layer and the top of clay elevations on Parcel 1:

- A new monitoring well (MW-18) was installed between existing monitoring wells MW-8 and MW-9 (see Figure 2). MW-18 was installed to evaluate whether or not the saturated sand layer is present in this location and to obtain a measurement to the top of the clay structure. The soil boring log for MW-18 is included in Appendix B. The monitoring well construction log for MW-18 is included in Appendix C.
- A new monitoring well (MW-19) was installed to the south of existing monitoring well MW-174S (see Figure 2). MW-19 was installed to obtain a measurement to the top of the clay structure in this location and to provide a location to measure water level data. The soil boring log for MW-19 is included in Appendix B. The monitoring well construction log for MW-19 is included in Appendix C.
- A soil boring and monitoring well were installed approximately 200-feet south of the existing monitoring well MW-4 (see Figure 2). The new well is identified as monitoring well MW-20. The soil boring log for MW-20 is included in Appendix B. The monitoring well

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construction log for MW-20 is included in Appendix C. During the installation of this well, a soil boring was advanced from the ground surface to the top of the clay layer that lies beneath the shallow sand. Although the Work Plan indicated that this soil boring would be advanced to the top of the surface of bedrock, a decision was made in the field to terminate the boring at the clay layer interface. The decision to terminate the boring was based on the review of previous reports that indicated that the bedrock surface was more than 100 feet below ground surface in that location. The NYSDEC agreed with this decision and did not require the soil boring to be advanced to the top of bedrock.

- Two soil borings were advanced between MW-20 and existing monitoring well MW-5S. The purpose of the soil borings was to evaluate the depth of the top of the clay layer in this area. Since ground water was encountered in each of the borings, both borings were converted to ground water monitoring wells and are identified as MW-21 and MW-22 (see Figure 2). The soil boring logs for MW-21 and MW-22 are included in Appendix B. The monitoring well construction logs for MW-21 and MW-22 are included in Appendix C.

Soil borings and monitoring wells were installed by ERM's subcontractor, Parratt Wolff, Inc., of East Syracuse, New York. The wells were installed using 6.25-inch hollow stem augers. The open borehole below the desired depth of the bottom of the well screen (if any) was backfilled with clean silica sand (Morie #00 or equivalent). The monitoring wells were constructed using 2-inch diameter polyvinyl chloride (PVC) riser and 0.010-inch ("10-slot") factory pre-slotted PVC well screen. Sand filter packs were constructed using clean silica sand to a minimum height of one foot above the top of the well screen. The well screen lengths are noted on the monitoring well construction logs (Appendix C).

A top of clay elevation contour map is included as Figure 5. Cross sections depicting the ground surface, ground water elevation, and top of clay elevations for selected transects across Parcel 1, as well as a cross-section overview map, are included as Figures 6 through 9.

Each new monitoring well was developed according to the standard operating procedure referenced in the Work Plan prior to ground water sampling activities. Ground water well development sheets for new monitoring wells are included in Appendix D.



3.1.3 GROUND WATER QUALITY

To assess ground water quality on Parcel 1, ERM collected ground water samples from the following locations:

- MW-1
- MW-2
- MW-3
- MW-4
- MW-5
- MW-7
- MW-8
- MW-12
- MW-18
- MW-19
- MW-20
- MW-21
- MW-22
- MW-173S
- MW-174S
- MW-609S
- P1-ASG-02 \*

\* P1-ASG-02 was installed as a soil vapor point but could not be used for that purpose because the ground surrounding the point became saturated after installation. Therefore, at the request of the NYSDEC, a ground water sample was collected from the point.

Following well development and equilibration, ground water samples were collected from each monitoring well using low flow ground water sampling methods as referenced in the Work Plan. Prior to purging each well, the depth to ground water was measured to the nearest 0.01-foot using a water level indicator. Low-flow purging techniques were used to purge each well until geochemical parameters stabilized, indicating that formation water was being extracted from the well. Wells were purged and sampled using a peristaltic pump through 0.25-inch dedicated polyethylene tubing. However, two existing monitoring wells (MW-3 and MW-12) did not recharge sufficiently to perform low flow sampling techniques. In these two cases, the wells were purged under low flow conditions until the wells were purged dry. The wells were then allowed to recharge and the samples were collected. After sample collection, the sample tubing was withdrawn and the ground water well was capped and locked. Low-flow ground water sampling forms are included in Appendix E.

Ground water samples were collected in appropriate laboratory-supplied containers, and placed in a pre-chilled cooler. All samples were delivered to Spectrum Analytical, Inc. (Spectrum), in Agawam, Massachusetts within 48-hours of sample collection. Spectrum is a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory. Ground water samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260B. Ground water analytical results are summarized in Table 3. The Analytical Services Protocol (ASP) Category B Deliverable package for ground water samples collected at the Site is included (in electronic format) as Appendix F.

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Quality Assurance/Quality Control (QA/QC) samples were collected in accordance with the Work Plan. QA/QC samples collected in the field included one blind duplicate sample and two equipment blank samples. Trip blanks were also included in each sample cooler sent to the laboratory.

Based on the results of laboratory analyses (discussed in Section 5.1.3), ERM collected follow-up ground water samples from monitoring wells MW-19 and MW-20 to confirm the presence of VOCs in ground water at these locations. Low flow sampling forms from the follow-up sampling event are included in Appendix E. The Analytical Services Protocol (ASP) Category B Deliverable package for the follow-up ground water samples collected at the Site is included (in electronic format) with Appendix F.

Equipment from drilling and sampling activities that was in contact with the ground water was either decontaminated with an Alconox™ wash, steam pressure washer, or disposed of through appropriate means. All decontamination water was containerized in Department of Transportation (DOT) listed 55-gallon drums for future waste characterization and disposal. Monitoring well purge water was either containerized in 55-gallon drums or discharged to the ground surface as referenced in the Work Plan.

### 3.1.4 SOIL VAPOR INTRUSION

To evaluate the potential for soil vapor intrusion into the buildings located on Parcel 1, ERM collected sub-slab and indoor air samples at four locations within Buildings 201, 202, and 203. In addition, one soil vapor sample was collected from a sampling point located southeast of Building 201.

#### 3.1.4.1 Sub-Slab Vapor

Four sub-slab vapor points within Buildings B201, B202, and B203 were installed by ERM to assess whether or not soil vapor contaminants are present beneath these buildings located on Parcel 1. The sub-slab sample locations are identified as:

- TC-P1-SS-01;
- TC-P1-SS-02;
- TC-P1-SS-03; and
- TC-P1-SS-04.

Sub-slab vapor sampling locations are shown in Figure 2.

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Although included in the Work Plan, sub-slab vapor point TC-P1-SS-05 was not installed as it was considered by ERM and the NYSDEC to be a redundant sampling location. Another NYSDEC-approved variation from the Work Plan was the relocation of sub-slab vapor point TC-P1-SS-04 closer to the location that was evaluated in 2008, which is expected to be closer to the location of the 42-inch storm sewer line.

Sub-slab sampling points were initially constructed in accordance with the Work Plan. At each location, a 1-inch diameter hole was drilled approximately 2-inches through the concrete slab using an electric hammer drill. A 0.5-inch drill bit was then used to drill through the remainder of the slab and then approximately 2-inches into the sub-slab material. A section of 0.25-inch polyethylene tubing was installed to the bottom of the concrete slab. The annular space between the tubing and 0.5-inch hole was covered with a stainless steel washer and the 1-inch hole was filled with melted beeswax to seal the sampling point.

However, upon testing the beeswax seals using helium as a tracer gas, it was determined that the beeswax seals were not adequate to maintain a seal between the indoor air and the sub-slab vapor sampling point. As such, each of the holes was cleared of beeswax, and a new sampling point was installed in each location. To construct the new sampling points, a section of 0.25-inch copper tubing was placed in the hole, even with the bottom of the slab. A 0.25-inch tubing-to-tubing compression fitting was fitted on the top end of the copper tubing. The annular space between the tubing and the wall of the 1-inch diameter hole in the concrete slab was filled with hydraulic cement. The cement was allowed to cure for a minimum of one hour and the sample points were leak tested again using helium as a tracer gas, in accordance with the Work Plan.

The results of the leak tests at each of the four sub-slab sampling points indicate that one of the four sampling points contained an adjusted helium concentration exceeding 1-percent (TC-P1-SS-01). A 1-percent helium concentration is the maximum leak threshold included in the Work Plan. The adjusted helium concentration detected in sampling point TC-P1-SS-01 was 1.31-percent. However, since NYSDOH Guidance suggests that up to 10-percent helium concentration is acceptable in soil vapor sampling points, the data generated from this point is considered to be acceptable. Results of the leak tests at each of the sub-slab points are summarized in Table 4.

A photoionization detector (PID) was used as a general check for the presence of potential VOC vapors in the surrounding area prior to sampling. VOC-containing products were only encountered in the sample taken from building B203 (the trash room); but all products were in tightly

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sealed containers and screening with a PID gave readings of 0.0 ppm. The building and basement construction, presence or absence of heating, ventilation and air-conditioning (HVAC) systems, chemical inventory and occupancy information was recorded prior to sampling.

All sub-slab vapor samples were collected using 1-liter stainless steel evacuated canisters equipped with eight-hour flow controllers. The 1-liter sampling cans were selected for all sub-slab and soil vapor samples collected as part of this investigation to minimize flow rates required for sampling in the sub-surface locations, thereby minimizing the risk of vapor breakthrough from the surface during sampling. The canisters and flow controllers were certified clean by the laboratory prior to use. Sub-slab sample collection data sheets are included in Appendix G.

Sub-slab soil vapor samples were transported to Alpha Analytical Laboratories (Alpha) of Westboro, Massachusetts for VOC analysis by USEPA Method TO-15. Select Ion Monitoring (SIM) analysis was performed on each sample to obtain a target detection limit of 0.25 µg/M<sup>3</sup> for TCE, carbon tetrachloride, and vinyl chloride. Alpha is an ELAP certified laboratory. Analytical results for sub-slab soil vapor samples are summarized in Table 5A. The ASP Category B Deliverable package for sub-slab soil vapor samples collected at the Site is included (in electronic format) in Appendix H.

### 3.1.4.2 *Indoor Air*

Four indoor air samples were collected within Buildings B201, B202, and B203. The indoor air samples were collected concurrently and in the same locations as the sub-slab vapor samples. The indoor air samples were collected to assess whether or not soil vapor contaminants that may be present beneath the buildings are affecting indoor air quality. The indoor air sample locations are identified as:

- TC-P1-IA-01;
- TC-P1-IA-02;
- TC-P1-IA-03; and
- TC-P1-IA-04.

Indoor air sampling locations on Parcel 1 are shown on Figure 2.

As discussed above, indoor air sample TC-P1-IA-05 identified in the Work Plan was not collected because the location was considered to be redundant. Also, indoor air sample TC-P1-IA-04 was moved to the location of the corresponding sub-slab sample.

Six-liter stainless steel evacuated canisters equipped with 8-hour flow controllers were used to collect the indoor air samples. The canisters and flow regulators were certified clean by the laboratory prior to use.

The flow controller intake for indoor air samples was located approximately 3-feet above the floor at each sample location. The conditions of the sampling area, such as open windows or doors, operation of the heating/ventilation system, or condition or location of items in proximity to the canister, were noted on the Indoor Air Pre-Sampling Survey prior to sampling. Copies of these surveys are included in Appendix G. Indoor air sample collection data sheets are also included in Appendix G.

Indoor air samples were transported to Alpha for VOC analysis by USEPA Method TO-15. Select Ion Monitoring (SIM) analysis was performed on each sample to obtain a target detection limit of 0.25 µg/M<sup>3</sup> for TCE, carbon tetrachloride, and vinyl chloride. Analytical results for indoor air samples are summarized in Table 5A. The ASP Category B Deliverable package for indoor air samples collected at the Site is included (in electronic format) in Appendix H.

#### 3.1.4.3 *Soil Vapor*

Three exterior soil vapor points were installed on Parcel 1 to assess whether or not soil vapor contaminants are present that may enter the buildings. The soil vapor sampling locations are shown in Figure 2.

Prior to installing soil vapor points, a temporary monitoring well was installed in the vicinity of each soil vapor sampling location to measure the static ground water level in that location. If an existing shallow monitoring well was already present in the vicinity of the soil vapor point, a temporary well was not installed.

Soil vapor points were installed using direct-push technology to drive stainless steel rods equipped with detachable stainless steel drive points to the desired depth. The bottom of each soil vapor screen was set approximately two feet above the measured ground water depth as specified by the Work Plan. At the desired depth, a 6-inch sampling screen attached to a dedicated polyethylene tubing of laboratory quality was installed into the borehole. The drive rods were retracted and the borehole was backfilled with glass beads to a minimum of 6-inches above the screened interval. Bentonite was then placed above the sand pack to ground surface, and immediately hydrated. Before the samples were collected, a minimum of 24-hours was provided for bentonite hydration.

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Copies of the soil boring logs/soil vapor point installation logs are included in Appendix B.

A PID was used as a general check for the presence of potential VOC vapors in the surrounding area prior to sampling. VOCs were not measured above background level screening with the PID.

In the days between the installation of the soil vapor sampling points and sample collection, rain fall and snow melt caused the surface soil to become saturated. Therefore, prior to sampling each soil vapor location, the sample port was purged with a 60-milliliter syringe to assess whether or not the sample screen contained water. During this process, the screened interval at sample locations TC-P1-ASG-02 and TC-P1-ASG-03 were found to contain water and soil vapor samples could not be collected from these locations. As requested by the NYSDEC, ERM attempted to collect ground water samples from these locations. One ground water sample was collected from soil vapor point TC-P1-ASG-02 with a peristaltic pump. However, a sufficient volume of water could not be recovered from soil vapor point TC-P1-ASG-03. Analytical results from the ground water sample collected from TC-P1-ASG-02 are included in Table 3.

Prior to collection of the vapor sample from TC-P1-ASG-01, the temporary soil vapor point and tubing were purged in accordance with the Work Plan. A minimum of three implant volumes were purged at a rate of 200 milliliters per minute. A helium tracer gas was used during purging to evaluate whether or not ambient air was being drawn into the sampling zone. Helium was not detected during purging at a concentration exceeding the 5-percent maximum threshold set forth by the Work Plan.

Samples were collected using laboratory-certified clean 1-liter stainless steel evacuated canisters with 8-hour calibrated flow controllers connected to the dedicated polyethylene tubing with air tight fittings. The soil vapor sample collection data sheet for Parcel 1 is included in Appendix G.

The soil vapor sample was transported to Alpha for VOC analysis by USEPA Method TO-15. Select Ion Monitoring (SIM) analysis was performed on each sample to obtain a target detection limit of 0.25  $\mu\text{g}/\text{M}^3$  for TCE, carbon tetrachloride, and vinyl chloride. Analytical results for the soil vapor sample are summarized in Table 6. The ASP Category B Deliverable package for soil vapor samples collected at the Site is included (in electronic format) in Appendix H.

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## 3.1.4.4 *Ambient Air*

ERM collected an outdoor ambient air sample during the sub-slab/indoor air sampling event at Parcel 1 (TC-P1-OA-01), and a second outdoor air sample during the soil vapor sampling event at Parcel 1 (TC-P1-OA-02).

To the extent allowed by Site features and security issues, outdoor ambient air samples were collected 20 to 75-feet from buildings and away from “windbreaks” such as bushes or fences. They were placed in the apparent upwind direction from other samples being collected during that event. Outdoor ambient air sample locations are shown on Figure 2.

Six-liter stainless steel evacuated canisters equipped with 8-hour flow controllers were used to collect the outdoor ambient air samples. The canisters and flow regulators were certified clean by the laboratory prior to use.

The flow controller intake for outdoor ambient air samples was located approximately 3-feet above the ground surface at each sample location. Outdoor ambient air sample collection data sheets are included in Appendix G.

One QA/QC sample was collected in accordance with the Work Plan. The QA/QC sample collected in the field includes one blind duplicate sample. Analytical results of QA/QC sample is summarized in Table 6.

Outdoor ambient air samples were transported to Alpha for VOC analysis by USEPA Method TO-15. Select Ion Monitoring (SIM) analysis was performed on each sample to obtain a target detection limit of 0.25 µg/M<sup>3</sup> for TCE, carbon tetrachloride, and vinyl chloride. Analytical results for outdoor ambient air samples are summarized in Tables 6 and 7. The ASP Category B Deliverable package for outdoor ambient air samples collected at the Site is included (in electronic format) as Appendix H.

## 3.2 *PARCEL 4A*

### 3.2.1 *GROUND WATER QUALITY*

One ground water sample was collected from pre-existing monitoring well MW-123AS on Parcel 4A to assess whether or not data collected by others in 2007 was repeatable. The location of MW-123AS is shown on Figure 3.

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The ground water sample was collected from the monitoring well using low flow ground water sampling methods as referenced in the Work Plan. Prior to ground water sample collection, the depth to ground water was measured to the nearest 0.01-foot using a water level indicator. Low-flow purging techniques were used to purge the well until geochemical parameters stabilized, indicating that formation water was being extracted from the well. The well was purged and sampled using a peristaltic pump through 0.25-inch dedicated polyethylene tubing. The sample was collected in appropriate laboratory-supplied containers, and placed in a pre-chilled cooler.

After sample collection, the sample tubing was withdrawn and the ground water well was capped and locked. All equipment from sampling activities that was in contact with the ground water was either decontaminated with an Alconox™ wash or disposed of through appropriate means. Monitoring well purge water was discharged to the ground surface as outlined in the Work Plan.

Spectrum analyzed the ground water sample for VOCs by USEPA Method 8260B. Spectrum is a NYSDOH ELAP certified laboratory. Analytical data for the ground water sample is summarized in Table 3. The ASP Category B Deliverable package for ground water samples collected at the Site is included (in electronic format) as Appendix F.

QA/QC samples collected in the field included trip blanks that were included in the sample cooler sent to the laboratory.

### 3.2.2 *SOIL VAPOR INTRUSION*

#### 3.2.2.1 *Sub-Slab Vapor*

To evaluate the potential for soil vapor intrusion within the buildings on Parcel 4A, ERM collected sub-slab and indoor air samples at four locations within Buildings 42, 43, 5 North, and 52.

Four sub-slab vapor points within Buildings 42, 43, 5 North, and 52 were installed by ERM to evaluate the presence of soil vapor contaminants beneath these buildings located on Parcel 4A. The sub-slab sample locations are identified as:

- TC-P4A-SS-01;
- TC-P4A-SS-02;
- TC-P4A-SS-03; and



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- TC-P4A-SS-04.

Sub-slab vapor sampling locations are shown in Figure 3.

Sub-slab sampling points were initially constructed in accordance with the Work Plan. However, because of difficulty acquiring an adequate beeswax seal, the sampling points were re-constructed with copper tubing and hydraulic cement. The cement was allowed to cure for a minimum of one hour and the sample points were leak tested again using helium as a tracer gas, in accordance with the Work Plan.

The results of the leak tests at each of the four sub-slab sampling points indicated that two of the four sampling points contained an adjusted helium concentration exceeding 1-percent (TC-P4A-SS-03 and TC-P4A-SS-04). A 1-percent helium concentration is the maximum leak threshold included in the Work Plan. The adjusted helium concentration detected in sampling point TC-P4A-SS-03 was 1.03-percent; the adjusted helium concentration detected in TC-P4A-SS-04 was 2.17-percent. However, since NYSDOH Guidance suggests that up to 10-percent helium concentration is acceptable in soil vapor sampling points, the data generated from these two points are considered to be acceptable. Results of the leak tests at each of the sub-slab points are summarized in Table 4.

A PID was used as a general check for the presence of potential VOC vapors in the surrounding area prior to sampling. VOC-containing products were only encountered in the sample taken from building B052 (Hunter Panels); but all products were in tightly sealed containers; screening with a PID presented readings ranging from 0.0 to 4.2 ppm. Information regarding building construction, presence or absence of HVAC systems, chemical inventory, and building occupancy was recorded prior to sampling.

All sub-slab vapor samples were collected using 1-liter stainless steel evacuated canisters equipped with 8-hour flow controllers. The canisters and flow controllers were certified clean by the laboratory prior to use. Sub-slab sample collection data sheets are included in Appendix G.

Sub-slab soil vapor samples were transported to Alpha for VOC analysis by USEPA Method TO-15. Select Ion Monitoring (SIM) analysis was performed on each sample to obtain a target detection limit of 0.25  $\mu\text{g}/\text{M}^3$  for TCE, carbon tetrachloride, and vinyl chloride. Alpha is an ELAP certified laboratory. Analytical results for sub-slab soil vapor samples are summarized in Table 5B. The ASP Category B Deliverable package for sub-slab soil vapor samples collected at the Site is included (in electronic format) in Appendix H.

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Based on analytical results from the sub-slab samples and to confirm that a separate source of TCE was not present near the northeast corner of Building 043, ERM conducted a follow-up soil vapor screening and sampling event in May 2009. The follow-up sampling included a PID screening of sub-slab vapor from multiple slab penetrations in the northeast corner of the building using a PID, and the collection of one sub-slab vapor sample. The sub-slab vapor screening and sampling locations used during the follow-up sampling are shown on Figure 3A. The sub-slab sample collection data sheet for the sub-slab sample is included in Appendix G. The ASP Category B Deliverable package for sub-slab soil vapor samples collected at the Site is included (in electronic format) in Appendix H.

### 3.2.2.2 *Soil Vapor*

Four exterior soil vapor points were installed on Parcel 4A to assess whether or not soil vapor contaminants are present that may enter the buildings. The soil vapor sampling locations are shown on Figure 3. The soil vapor point locations are identified as:

- TC-P4A-ASG-01;
- TC-P4A-ASG-02;
- TC-P4A-ASG-03; and
- TC-P4A-ASG-04.

Prior to installing soil vapor points, a temporary monitoring well was installed in the vicinity of each soil vapor sampling location to measure the static ground water level in that location. If an existing shallow monitoring well was already present in the vicinity of the soil vapor point, a temporary well was not installed.

Soil vapor points were installed using direct-push technology to drive stainless steel rods equipped with detachable stainless steel drive points to the desired depth. The bottom of each soil vapor screen was set approximately two feet above the measured ground water depth as specified by the Work Plan. At the desired depth, a 6-inch sampling screen attached to a dedicated polyethylene tubing of laboratory quality was installed into the borehole. The drive rods were retracted and the borehole was backfilled with glass beads to a minimum of 6-inches above the screened interval. Bentonite was then placed above the sand pack to ground surface, and immediately hydrated. Before the samples were collected, a minimum of 24-hours was provided for bentonite hydration.

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Copies of the soil boring logs/soil vapor point installation logs are included in Appendix B.

A PID was used as a general check for the presence of VOC vapors in the surrounding area prior to sampling. VOC-containing products were not encountered and screening with the PID gave readings of 0.0 ppm.

Prior to collection of the soil vapor samples, the temporary soil vapor probe and tubing were purged in accordance with the Work Plan. A minimum of three implant volumes were purged at a rate of 200 milliliters per minute. A helium tracer gas was used during purging to evaluate whether or not ambient air was being drawn into the sampling zone. Helium was not detected during purging at three of the four sampling points at a concentration exceeding the 5-percent maximum threshold set forth by the Work Plan. However, at sampling point TC-P4A-ASG-03, helium was detected in the post-sampling leak test at an adjusted concentration of 14.07-percent. This concentration of helium detected during the leak test suggests that up to 14-percent of the soil vapor sample consists of ambient air. As such, this information needs to be considered when evaluating the soil vapor data generated at this point. Results of the helium leak tests for soil vapor points are included in Table 4.

Samples were collected using laboratory-certified clean 1-liter stainless steel evacuated canisters with 8-hour calibrated flow controllers connected to the dedicated polyethylene tubing with air tight fittings. The soil vapor sample collection data sheets for Parcel 4A are included in Appendix G.

The soil vapor samples were transported to Alpha for VOC analysis by USEPA Method TO-15. Select Ion Monitoring (SIM) analysis was performed on each sample to obtain a target detection limit of 0.25  $\mu\text{g}/\text{M}^3$  for TCE, carbon tetrachloride, and vinyl chloride. Analytical results for the soil vapor samples are summarized in Table 6. The ASP Category B Deliverable package for soil vapor samples collected at the Site is included (in electronic format) in Appendix H.

### 3.2.2.3

#### *Indoor Air*

Four indoor air samples were collected within Buildings 42, 43, 5 North, and 52. The indoor air samples were collected concurrently and in the same locations as the sub-slab vapor samples. The indoor air samples were collected to assess whether or not soil vapor contaminants that may be present beneath the buildings are affecting indoor air quality. The indoor air sample locations are identified as:

- TC-P4A-IA-01;

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- TC-P4A-IA-02;
- TC-P4A-IA-03; and
- TC-P4A-IA-04.

Indoor air sampling locations on Parcel 4A are shown on Figure 3.

Six-liter stainless steel evacuated canisters equipped with 8-hour flow controllers were used to collect the indoor air samples. The canisters and flow regulators were certified clean by the laboratory prior to use.

The flow controller intake for indoor air samples was located approximately 3-feet above the floor at each sample location. The conditions of the sampling area, such as open windows or doors, operation of the heating/ventilation system, or condition or location of items in proximity to the canister, were noted on the Indoor Air Pre-Sampling Survey prior to sampling. Copies of these surveys are included in Appendix G. Indoor air sample collection data sheets are also included in Appendix G.

Indoor air samples were transported to Alpha for VOC analysis by USEPA Method TO-15. Select Ion Monitoring (SIM) analysis was performed on each sample to obtain a target detection limit of 0.25 µg/M<sup>3</sup> for TCE, carbon tetrachloride, and vinyl chloride. Analytical results for indoor air samples are summarized in Table 5B. The ASP Category B Deliverable package for indoor air samples collected at the Site is included (in electronic format) in Appendix H.

### 3.2.2.4 *Ambient Air*

ERM collected an outdoor ambient air sample during the sub-slab/indoor air sampling event at Parcel 4A (TC-P4A-OA-01), and a second outdoor air sample during the soil vapor sampling event at Parcel 4A (TC-P4A-OA-02).

To the extent allowed by Site features and security issues, outdoor ambient air samples were collected 20- to 75-feet from buildings and away from “windbreaks” such as bushes or fences. They were placed in the apparent upwind direction from other samples being collected during that event. Outdoor ambient air sample locations are shown on Figure 3.

Six-liter stainless steel evacuated canisters equipped with 8-hour flow controllers were used to collect the outdoor ambient air samples. The canisters and flow regulators were certified clean by the laboratory prior to use.

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The flow controller intake for outdoor ambient air samples was located approximately 3-feet above the ground surface at each sample location. Outdoor ambient air sample collection data sheets are included in Appendix G.

Outdoor ambient air samples were transported to Alpha for VOC analysis by USEPA Method TO-15. Analytical results for outdoor ambient air samples are summarized in Table 6. The ASP Category B Deliverable package for outdoor ambient air samples collected at the Site is included (in electronic format) in Appendix H.

4.1 SAMPLE COLLECTION

As part of the initial review of analytical data by ERM, the following data quality related items were observed:

*Loss of Vacuum in Evacuated Stainless Steel Canisters:* The stainless steel evacuated canisters and flow controllers used for sub-slab vapor, indoor air, outdoor ambient air, and soil vapor sample collection are equipped with pressure gauges that measure the pressure within the canister relative to the atmosphere during sampling. As stated in the Work Plan, All canister valves were closed in the field when the vacuum on the gauge reached 5-inches of mercury. Because the pressure gauges on the cans and flow controllers are not primary measuring devices, the pressure (or vacuum) in each can is measured when the can is logged in at the project laboratory. Based on Alpha’s canister log-in form, a positive pressure was measured in four of the 26 sample canisters submitted as part of the investigation.

The sample identifications for each of these four sample canisters along with the pressure measured during sample log-in are:

<u>Sample Identification</u>	<u>Pressure Measured at Log-in</u> (in- Hg)
TC-P1-ASG-01	0.1
TC-P4A-IA-02	0.6
TC-P4A-SS-03	0.4
TC-P4A-OA-01	2.2

The absence of vacuum as measured on the gauge in the sample canisters does not necessarily indicate that the sample is not representative of the air being sampled. However, if vacuum is not measured in the sample canister at the time of sample log-in, then it can not be firmly established that the canister did not lose or gain air during the trip to the laboratory. Laboratory records indicate that the canister valves were tightly closed upon log-in, and that the valves were air-tight when the canisters were shipped from the laboratory to ERM. There are many factors that can affect the vacuum gauge reading at the laboratory such as temperature and atmospheric pressure.

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Upon review, it appears that the contaminants detected in these samples were generally detected in other samples collected from nearby sampling locations, and that the contaminants were generally detected at concentrations within one order of magnitude. One exception to this is the relatively high concentration of trichloroethylene (TCE) and dichlorodifluoromethane in sample TC-P4A-SS-03. It is ERM's opinion that it is unlikely that the valves failed on these samples and more likely that a change in temperature or atmospheric pressure, or faulty pressure gauges on the sampling devices is responsible for the lack of negative pressure in the sampling cans upon receipt at the project laboratory.

*Sample Duration for Several Sub-Slab Sample Locations:* Due to fluctuation in the actual flow rate of the flow controllers used on the 1-liter sampling canisters, three active soil gas and six sub-slab vapor sample canisters reached a pressure of 5-inches of mercury prior to meeting the 6-hour time duration set forth in the Work Plan. Because this was a widespread phenomenon affecting a significant number of the 1-liter canisters, it was not feasible to disregard the samples and replace all nine canisters. All of the affected samples were collected over a minimum duration of five hours, and therefore, the maximum flow rate of 200 milliliters per minute was not exceeded during the sample collection. Although this does not represent a data quality issue, it is a variation from the Work Plan and is therefore pertinent to the vapor intrusion evaluation.

*Air Bubbles in Volatile Organic Analysis Vials:* The Spectrum Analytical laboratory report indicates that "air bubbles" were visible in volatile organic analysis (VOA) vials that contained ground water samples from two monitoring wells only, located at Parcel 1. The wells where the samples were generated are MW-3 and MW-12. Upon review of the low-flow sampling forms prepared by ERM during sampling, it is noted that both of these wells were purged dry during the attempt to conduct low-flow sampling. In addition, the turbidity within each of these wells is noted as being very high compared to other Site wells. Because low-flow sampling was not feasible at these wells, the wells were allowed to recharge after being pumped dry, and a sample was collected after the ground water level had recovered to near its original elevation. Because of this, the samples collected from these two wells contained a high amount of solid material from the well. It is ERM's opinion that the large amount of silt in the sample vials contained calcium carbonate ( $\text{CaCO}_3$ ) from the underlying formation; the  $\text{CaCO}_3$  would likely react with the hydrochloric acid (HCl) used in the VOA vial for sample preservation. If this reaction occurred, carbon dioxide gas may have formed and created the air bubbles that were observed at the laboratory.

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Standard practice for the collection of ground water samples for VOC analysis requires that the VOA vials contain zero headspace (no air inside the bottle) to deter dissolved VOCs from partitioning out of the aqueous phase and into the vapor phase.

### 4.2 *DATA USABILITY STUDY REPORT*

ERM's Quality Assurance Officer reviewed the analytical data generated during this investigation and prepared DRAFT Data Usability Summary Reports (DUSRs) for each laboratory deliverable. The DUSRs for the ground water analytical data and the air analytical data are included in Appendix F and Appendix H, respectively.

The DUSRs concluded that all of the analytical data for samples collected during this investigation are usable with the exception of the measured isopropyl alcohol (isopropanol) concentrations in 9 vapor phase samples; and 2,2,4-trimethylpentane in the sub-slab vapor sample collected during the follow-up sampling round in Building 043. The isopropanol and 2,2,4-trimethylpentane results in these samples were rejected because the laboratory report indicated that the compounds' concentration in the samples could not be determined due to an interference with these compounds in the samples. Neither isopropanol nor 2,2,4-trimethylpentane is a contaminant of concern at the Site and the rejection of the data in these samples does not alter ERM's conclusions regarding this investigation. Several data were qualified as noted in the DUSR and in the data summary tables.



**5.0 RESULTS AND DISCUSSION****5.1 PARCEL 1****5.1.1 42-Inch Storm Drain****5.1.1.1 Ground Water Elevation Measurements**

The investigation of the 42-inch storm water drain line was conducted to evaluate the efficacy of the storm line to act as a hydraulic barrier to ground water that flows from the Main TechCity Campus, to the southwest toward Parcel 1.

Based on the interpretation of the ground water elevations measurements collected by ERM in March 2009, a ground water divide exists beneath the south parking lot on Parcel 1. The estimated location of the ground water divide is shown on Figure 4.

The presence of the ground water divide is significant in that it shows that ground water flow direction in the eastern portion of the south parking lot, known as the “plume triangle”, is to the east and toward the 42-inch sewer drain line. A second significant observation related to the ground water elevation contour map is the presence of a ground water depression in the vicinity of the storm sewer drain line beneath the northern area of the south parking lot.

**5.1.1.2 Pressure Transducer Data**

Pressure transducer data is summarized in Table 2. A graphical representation of pressure transducer data is presented in Figure 11. Ground water investigation data from Manhole MH-2 is included in Appendix I. The following observations were made with respect to the transducer data:

- Overall water levels in Manhole MH-2 and monitoring wells MW-173S and MW-174S generally followed similar fluctuation trends.
- Water levels in both monitoring wells were within 0.03 feet of one-another throughout the duration of the assessment.
- Precipitation events that occurred on 1, 3, and 6 April 2009 were apparent from the pressure transducer data (see Figure 11) as evidenced by the rapid water level rise and fall in MH-2. Water levels also rose as a result of the precipitation events in MW-173S and MW-174S; however, the reaction occurred much slower in the wells than in the storm sewer line.

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- It is apparent that monitoring wells MW-173S and MW-174S are hydraulically connected to the 42-inch sewer drain line proximal to Manhole MH-2 as evidenced by fluctuation trends. Figure 10 depicts a cross section across the monitoring wells and the manhole showing the ground water potentiometric surface.

### 5.1.1.3 *TV Inspection Observations*

As stated above, five separate runs were attempted to conduct a TV inspection of the 42-inch storm sewer drain line from Manhole MH-1 to Manhole MH-4 (see Figure 4). A total of 473.7 feet of the storm sewer line was video taped during the investigation. As can be seen in photographs included in the pipeline observation reports and video (Appendix A), ground water intrusion is clearly occurring at seams where the concrete storm water drain line sections are joined together. Minor slippage of the joints was noted at some locations. The majority of the joints were wet along the top of the pipe. In some locations, drops of water could be observed falling from the top of the joint, and streams of water could be seen entering the pipe joints in some locations.

Based on measurements collected during the investigation, the top of the storm water drain line elevation is approximately 4-feet beneath the ground water surface at the location of Manhole MH-2 (see Figure 10). Observations made during the TV inspection of the sewer line (ground water infiltration through the drain line pipe seams); the apparent hydraulic connection shown by the pressure transducer data; and the apparent ground water depression along the storm sewer line in the south parking lot of Parcel 1 suggest that the storm sewer line does influence ground water flow direction, and can ultimately impact the transport of ground water pollutants along the eastern boundary of Parcel 1.

### 5.1.2 *Extent of Saturated Sand Layer*

Soil borings and monitoring wells were installed during this investigation to evaluate whether or not the shallow saturated sand layer found beneath the eastern portion of the Parcel 1 south parking lot extends westward beyond the south parking lot area. Top of clay elevations from previous reports and ERM wells on Parcel 1 are listed in Table 7. A top of clay surface elevation contour map is included as Figure 5. Cross sections of three transects across the south parking lot are presented as Figures 7 through 9.

Based on the review of boring logs prepared by others during previous investigations and observations made by ERM during the installation of

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the soil borings/monitoring wells installed as part of this investigation, a U-shaped clay ridge is present beneath the Parcel 1 south parking lot. The top of the clay ridge generally coincides with shallow ground water flow direction beneath the parking lot.

During the installation of the new monitoring wells and measurement of ground water levels in March 2009, the ground water level was elevated to the point that all shallow ground water monitoring wells contained water, and an unsaturated sand layer was not encountered atop the clay ridge.

According to the data evaluated as part of this investigation, the clay ridge beneath the south parking lot of Parcel 1 influences shallow ground water flow, and provides a hydraulic control, along with the 42-inch storm sewer drain, to minimize the potential for contaminants to migrate on to Parcel 1 from the area beneath Enterprise Drive.

### 5.1.3 *Ground Water Quality*

Seventeen ground water samples were collected from existing and new ground water monitoring wells on Parcel 1 during the initial phase of the investigation. Two follow-up samples were collected from monitoring wells MW-19 and MW-20. All samples were analyzed for VOCs by USEPA method 8260B. Analytical results for these samples are summarized in Table 3. Chlorinated solvents including 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1,1-trichloroethane (1,1,1-TCA), 1,1,2-trichloroethane (1,1,2-TCA), and trichloroethene (TCE) were detected in monitoring well MW-173S above the New York State Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1 for ground water (Ambient Water Quality Standard). TCE was detected above the Ambient Water Quality Standard in well MW-174S. Although VOCs were detected at low levels in monitoring wells MW-19 and MW-20 during the initial sampling round (below Ambient Ground Water Quality Standards), they were not detected during the follow-up sampling round. No other VOCs were detected in other monitoring points above the Ambient Water Quality Standards on Parcel 1.

Based on these results, it appears that the hydraulic control provided by the 42-inch storm sewer drain line and ground water flow patterns caused by the presence of the clay ridge are preventing the migration of VOCs to the area beneath the Parcel 1 south parking lot.

**5.1.4 Soil Vapor Intrusion Evaluation**

ERM conducted a soil vapor intrusion evaluation to evaluate the potential for VOCs to enter the buildings at Parcel 1 through the process of vapor intrusion.

The analytical results for the soil vapor evaluation presented in Tables 5 and 6 were compared to the NYSDOH guidance values listed in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Guidance values are included in Tables 5 and 6. Rather than using static guidance values, the NYSDOH uses matrices to evaluate whether or not further action is required to mitigate soil vapor intrusion issues. The applicable matrices are provided in Tables 8 and 9.

Compounds with assigned guidance values were not detected in any of the soil vapor, sub-slab, indoor air, or outdoor air samples with the exception of carbon tetrachloride. Carbon tetrachloride was detected in all four indoor air samples collected from Parcel 1 at concentrations ranging from 0.556 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) to 0.566  $\mu\text{g}/\text{m}^3$ . However, sub-slab concentrations of carbon tetrachloride were all below 0.448  $\mu\text{g}/\text{m}^3$  and the outdoor ambient air sample collected during the indoor and sub-slab sampling event contained the compound at a concentration of 0.551  $\mu\text{g}/\text{m}^3$ . Based on Matrix 1 in the NYSDOH guidance document, if indoor air concentrations of carbon tetrachloride exceed 0.25  $\mu\text{g}/\text{m}^3$  and sub-slab sample concentrations are less than 5  $\mu\text{g}/\text{m}^3$ , then reasonable action should be taken to identify the source and take practical action to minimize exposure. Based on the review of the vapor sampling data, it is ERM's opinion that the source of the carbon tetrachloride is outside of the building and is not related to chlorinated solvents in the subsurface.

**5.2 PARCEL 4A****5.2.1 Ground Water Quality**

One ground water sample was collected from ground water monitoring well MW-123AS on Parcel 4A for VOC analysis. VOCs were not detected in the ground water sample at a concentration exceeding the Ambient Water Quality Standard. Specifically, TCE was not detected in the well at a concentration above the reportable laboratory detection limit of 1.0 micrograms per liter ( $\mu\text{g}/\text{L}$ ).

*Soil Vapor Intrusion Evaluation*

ERM conducted a soil vapor intrusion evaluation to evaluate the potential for VOCs to enter the buildings at Parcel 4A through the process of vapor intrusion.

The analytical results for the soil vapor evaluation presented in Tables 5 and 6 were compared to the NYSDOH guidance values listed in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Guidance values are included in Tables 5 and 6. Rather than using static guidance values, the NYSDOH uses matrices to evaluate whether or not further action is required to mitigate soil vapor intrusion issues. The applicable matrices are provided in Tables 8 and 9.

Compounds with assigned guidance values were not detected in any of the soil vapor, sub-slab, indoor air, or outdoor air samples with the exception of the following:

- Carbon tetrachloride was detected in all four indoor air samples collected from Parcel 4A at concentrations ranging from 0.454  $\mu\text{g}/\text{m}^3$  to 0.568  $\mu\text{g}/\text{m}^3$ . Only one sub-slab sample contained a detectable concentration of carbon tetrachloride which was 0.552  $\mu\text{g}/\text{m}^3$ . The outdoor ambient air sample collected during the indoor and sub-slab sampling event contained the compound at a concentration of 0.554  $\mu\text{g}/\text{m}^3$ . Based on Matrix 1 in the NYSDOH guidance document, if indoor air concentrations of carbon tetrachloride exceed 0.25  $\mu\text{g}/\text{m}^3$  and sub-slab sample concentrations are less than 5  $\mu\text{g}/\text{m}^3$ , then reasonable action should be taken to identify the source and take practical action to minimize exposure. Based on the review of the vapor sampling data, it appears that the source of the carbon tetrachloride is outside of the building and is not related to chlorinated solvents in the subsurface.
- Methylene chloride was detected at a concentration of 250  $\mu\text{g}/\text{m}^3$  in the indoor air sample TC-P4A-IA-04, collected inside Building 52 (Hunter Panels). The NYSDOH guidance value for methylene chloride is 60  $\mu\text{g}/\text{m}^3$ . Vinyl chloride was also detected in the sample at a concentration of 1.04  $\mu\text{g}/\text{m}^3$ , and in the corresponding sub-slab sample at a concentration of 0.151  $\mu\text{g}/\text{m}^3$ . At these concentrations of vinyl chloride, the NYSDOH guidance document in Matrix 2 recommends taking reasonable action to identify a potential source and reduce exposures. Based on PID readings collected in the vicinity of the sample location, an elevated background concentration of VOCs was present during the sampling event (4.2 ppm). Based on the detection of these compounds at elevated concentrations in indoor air samples, but much lower concentrations

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in the sub-slab sample, the source of the compounds is most likely related to the Hunter Panels operation and not to the presence of these compounds in sub-slab vapor.

- TCE was detected at a concentration of 11.6  $\mu\text{g}/\text{m}^3$  in the sub-slab sample collected from Building 05N (TC-P4A-SS-03). The corresponding indoor air sample contained TCE at a concentration of 0.184  $\mu\text{g}/\text{m}^3$ . Based on these concentrations, the NYSDOH Matrix 1 indicates that no further action is required. It is likely that this detection is related to the proximity of the sample location to the known source of historical chlorinated solvent releases located outside and west of Parcel 4A.

**CONCLUSIONS**

The investigation confirmed that the clay unit beneath Parcel 1 rises in elevation to the west of Enterprise Drive and acts as a barrier to westward ground water flow. The television inspection and data logging of the 42-inch storm sewer confirmed that the storm sewer intersects ground water flow and “captures” part of the plume through infiltration into the sewer line. Although ground water use limitations may be required on a portion of Parcel 1, it is ERM’s opinion that no further investigation or remediation is warranted to remove Parcel 1 from the RCRA permit.

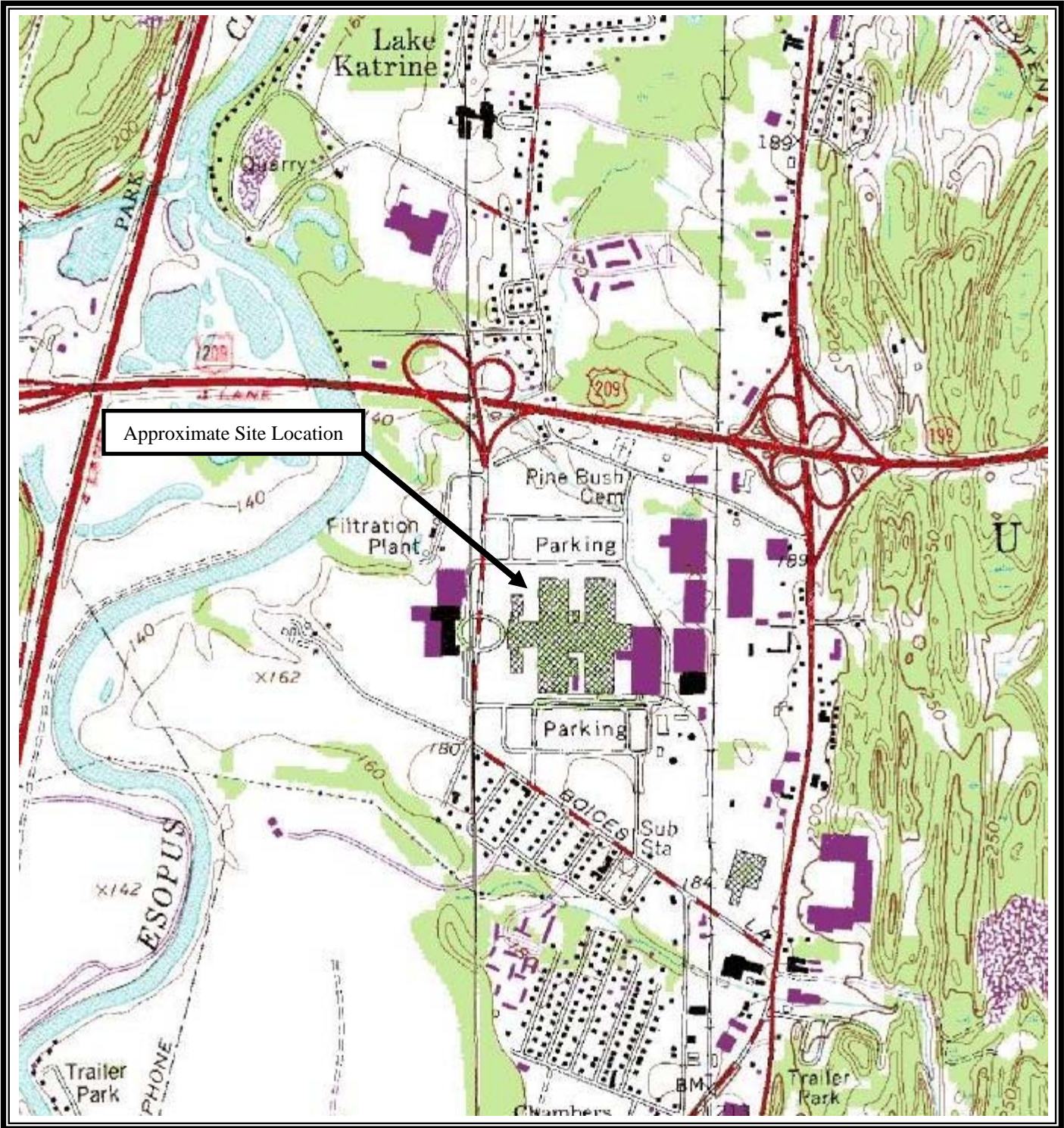
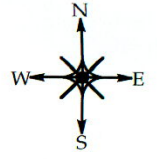
Based on the results of the ground water and soil vapor sampling on Parcel 4A, it is ERM’s opinion that additional investigation of this parcel is not required; and both parcels can be removed from the permit without incurring environmental risk to human health and the environment.

## *FIGURES*



# Figure 1

## Site Location Map

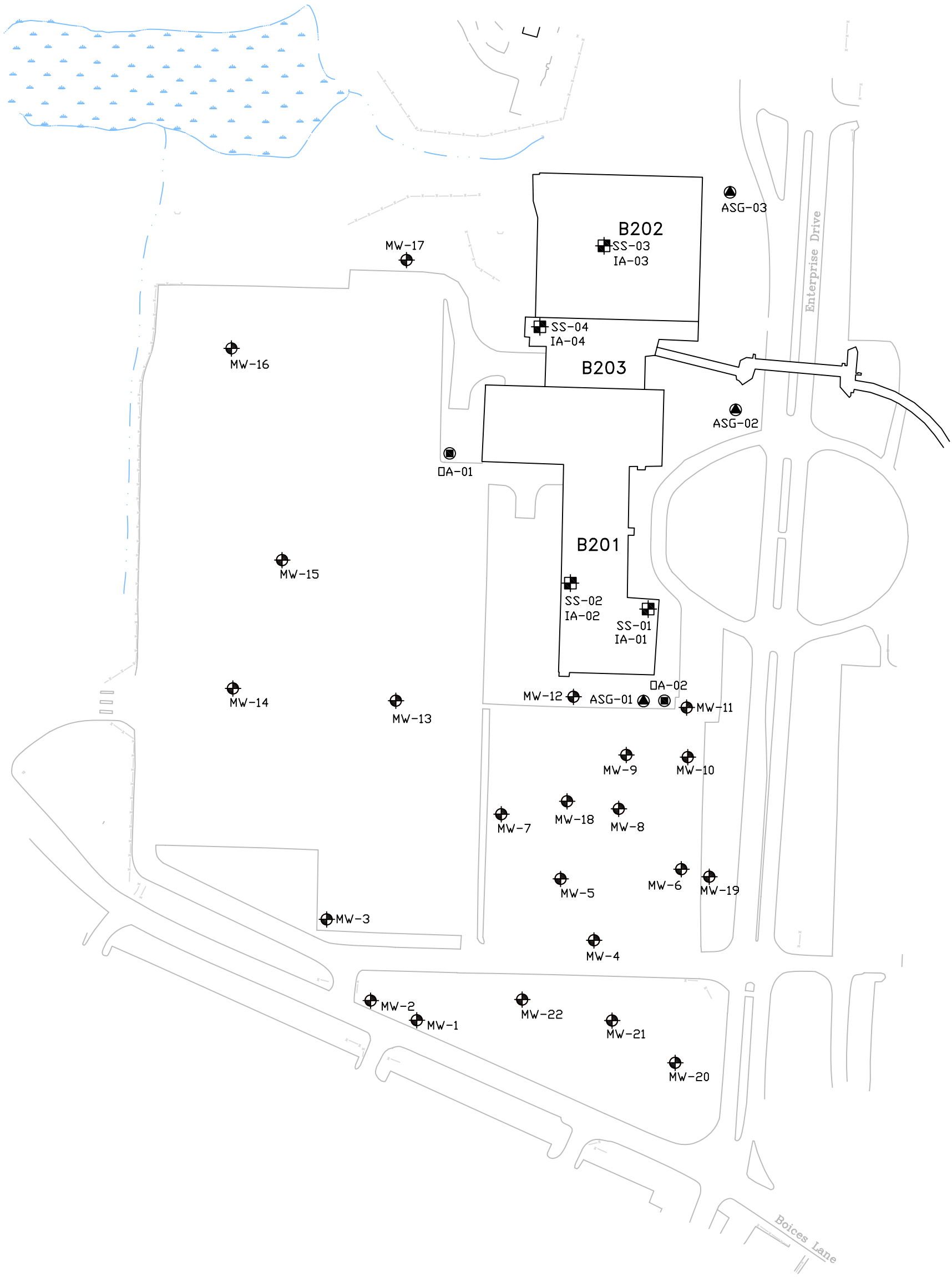


300 Enterprise Drive  
Kingston, NY 12401


**Approximate Scale**

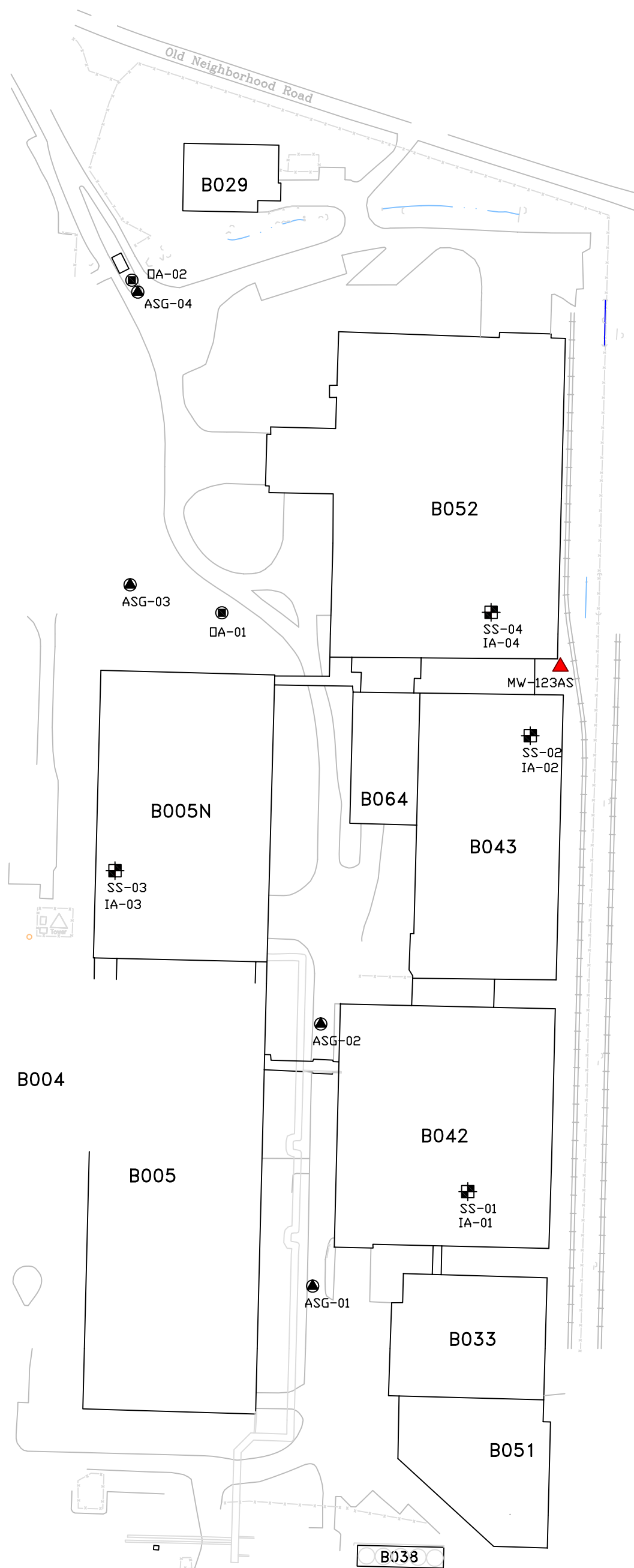
1-inch equals 1,335-feet





- Legend
- ⊕ Ground Water Monitoring Well
  - Soil Gas Vapor Point
  - Outdoor Air Sampling Location
  - ⊞ Sub-Slab Vapor Point & Indoor Air Sampling Location

Site Layout Map - Parcel 1 TechCity Facility Kingston, New York NYSDEC SITE NUMBER 3-5154-00067-00090		
PREPARED FOR		TechCity
 <b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE 1"=176'	FIGURE 2
	DATE 04/09	



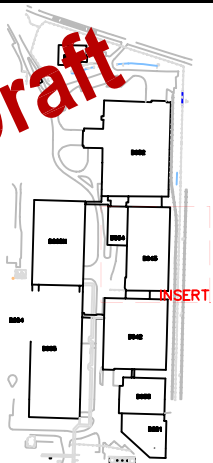
- Legend**
- Pre-Existing Ground Water Monitoring Well
  - Soil Gas Vapor Point
  - Outdoor Air Sampling Location
  - Sub-Slab Vapor Point & Indoor Air Sampling Location

Site Layout Map - Parcel 4A TechCity Facility Kingston, New York NYSDEC SITE NUMBER 3-5154-00067-00090			
PREPARED FOR <b>TechCity</b>			
 <b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE 1"=173'	FIGURE 3	
	DATE 04/09		

PROJECT #002921A

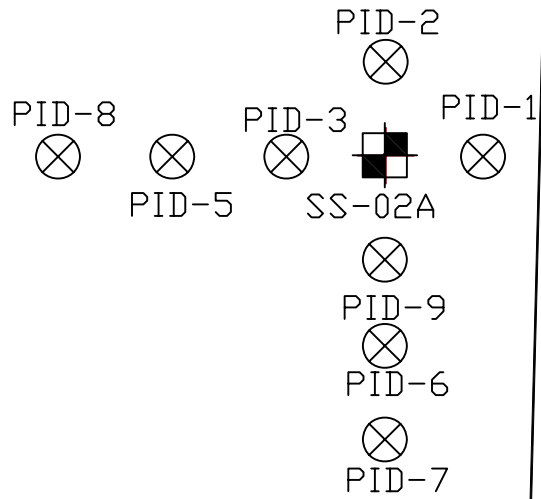


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B064

B043




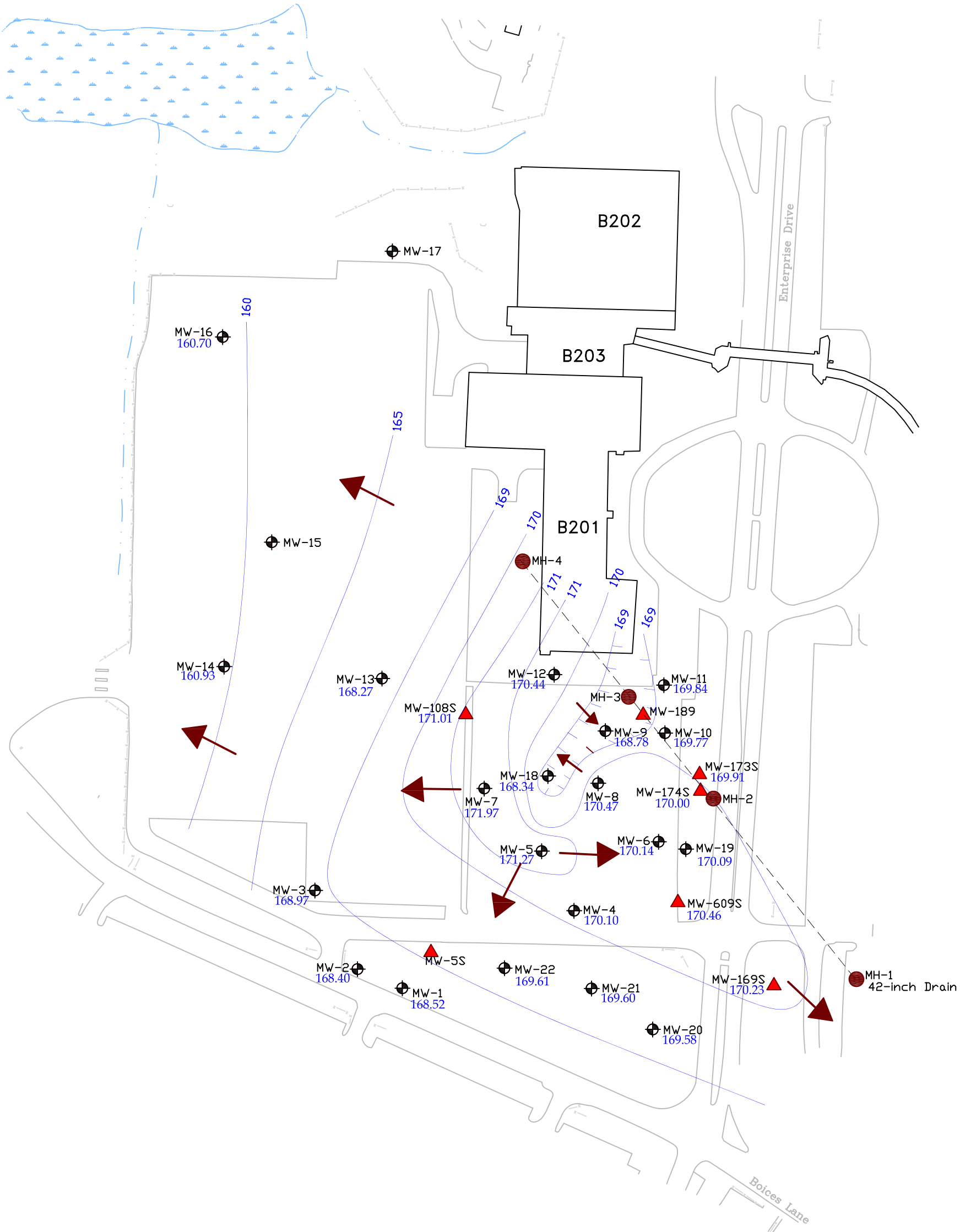
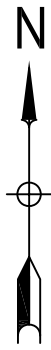
PID Screening Point	PID Reading
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0

Legend  
 ⊗ Total VOC Screening Location (PID)  
 ⊕ Sub-Slab Vapor Point & Indoor Air Sampling Location

Parcel 4A - Follow Up  
 Sub-Slab Sample Location Map  
 TechCity Facility  
 Kingston, New York  
 NYSDEC SITE NUMBER 3-5154-00067-00090

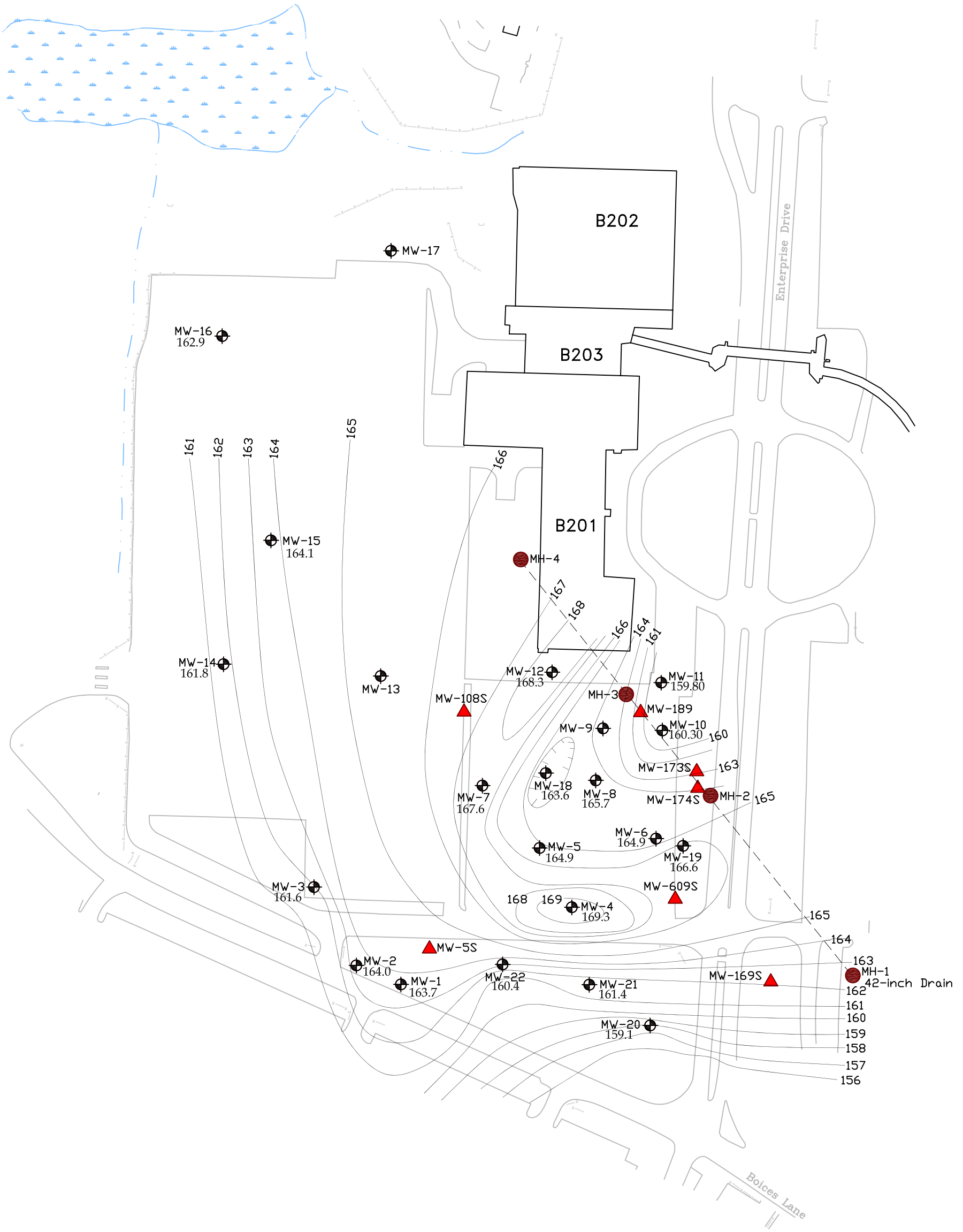
PREPARED FOR  
 TechCity

 <b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE NTS	FIGURE
	DATE 07/09	3A



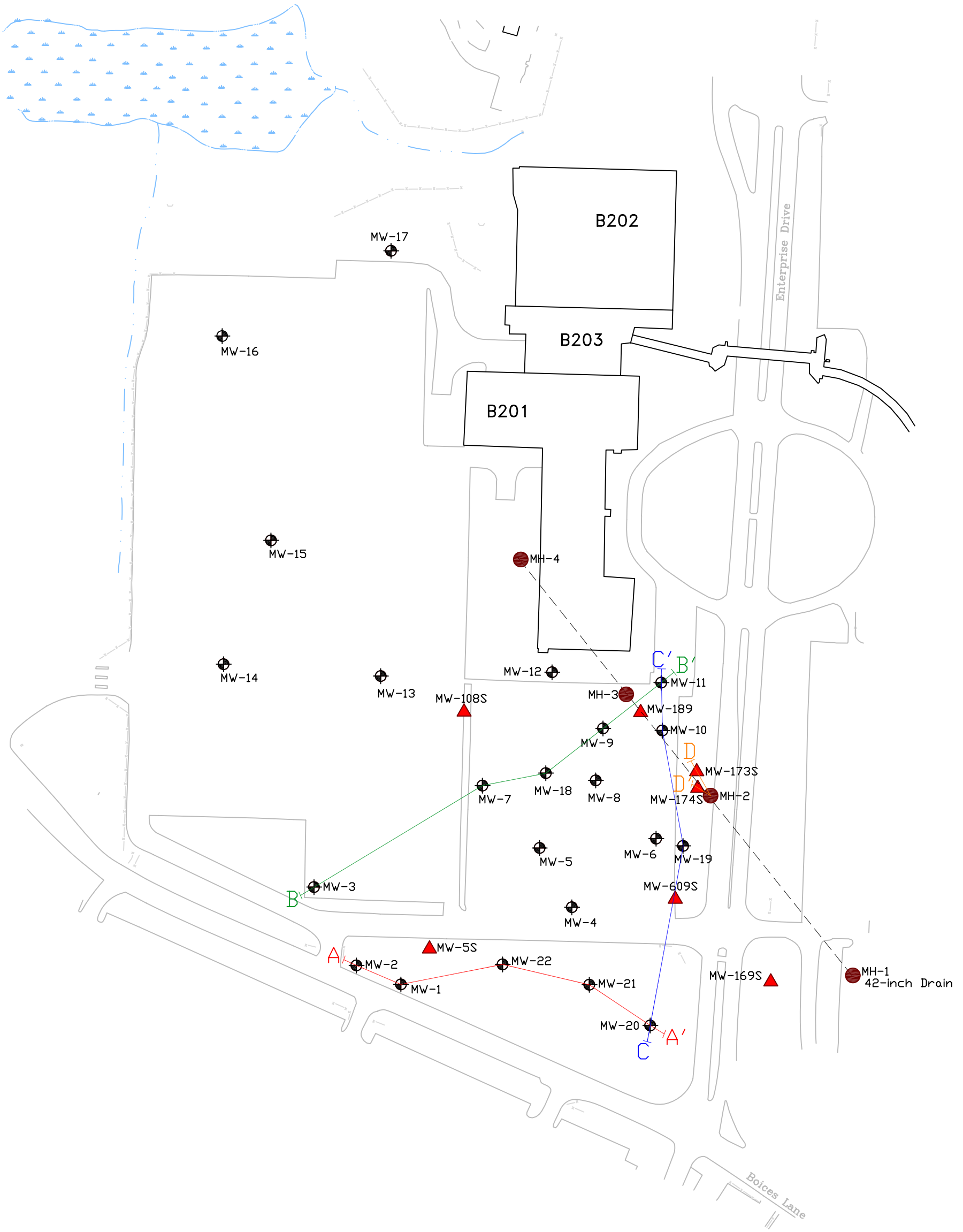
- Legend
- Pre-Existing Ground Water Monitoring Well
  - Ground Water Monitoring Well
  - Storm Sewer Manhole
  - 42" Storm Drain
  - Ground Water Contour
  - Ground Water Elevation (Feet)
  - Ground Water Depression
  - Ground Water Flow Direction
- Note: Contour Interval Varies

Ground Water Elevation Map TechCity Facility Kingston, New York NYSDEC SITE NUMBER 3-5154-00067-00090	
PREPARED FOR <b>TechCity</b>	
<b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE 1"=176' DATE 04/09
FIGURE 4	PROJECT #002924



- Legend**
- Pre-Existing Ground Water Monitoring Well
  - Ground Water Monitoring Well
  - Storm Sewer Manhole
  - 42" Storm Drain
  - Top of Clay Contour
  - Top of Clay Elevation (Feet)
  - Clay Depression
- Note: Contour Interval ( 1-foot ).

<p>Top of Clay Elevation Map TechCity Facility Kingston, New York NYSDEC SITE NUMBER 3-5154-00067-00090</p>		
<p>PREPARED FOR <b>TechCity</b></p>		
<p><b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214</p>	<p>SCALE 1"=176'</p>	<p>FIGURE 5</p>
	<p>DATE 04/09</p>	



- Legend
- Pre-Existing Ground Water Monitoring Well
  - Ground Water Monitoring Well
  - Storm Sewer Manhole
  - 42" Storm Drain
  - Cross Section A-A'
  - Cross Section B-B'
  - Cross Section C-C'
  - Cross Section D-D'

Cross Section Overview Map TechCity Facility Kingston, New York NYSDEC SITE NUMBER 3-5154-00067-00090		
PREPARED FOR		TechCity
<b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE	FIGURE
	1"=176'	6
	DATE	04/09

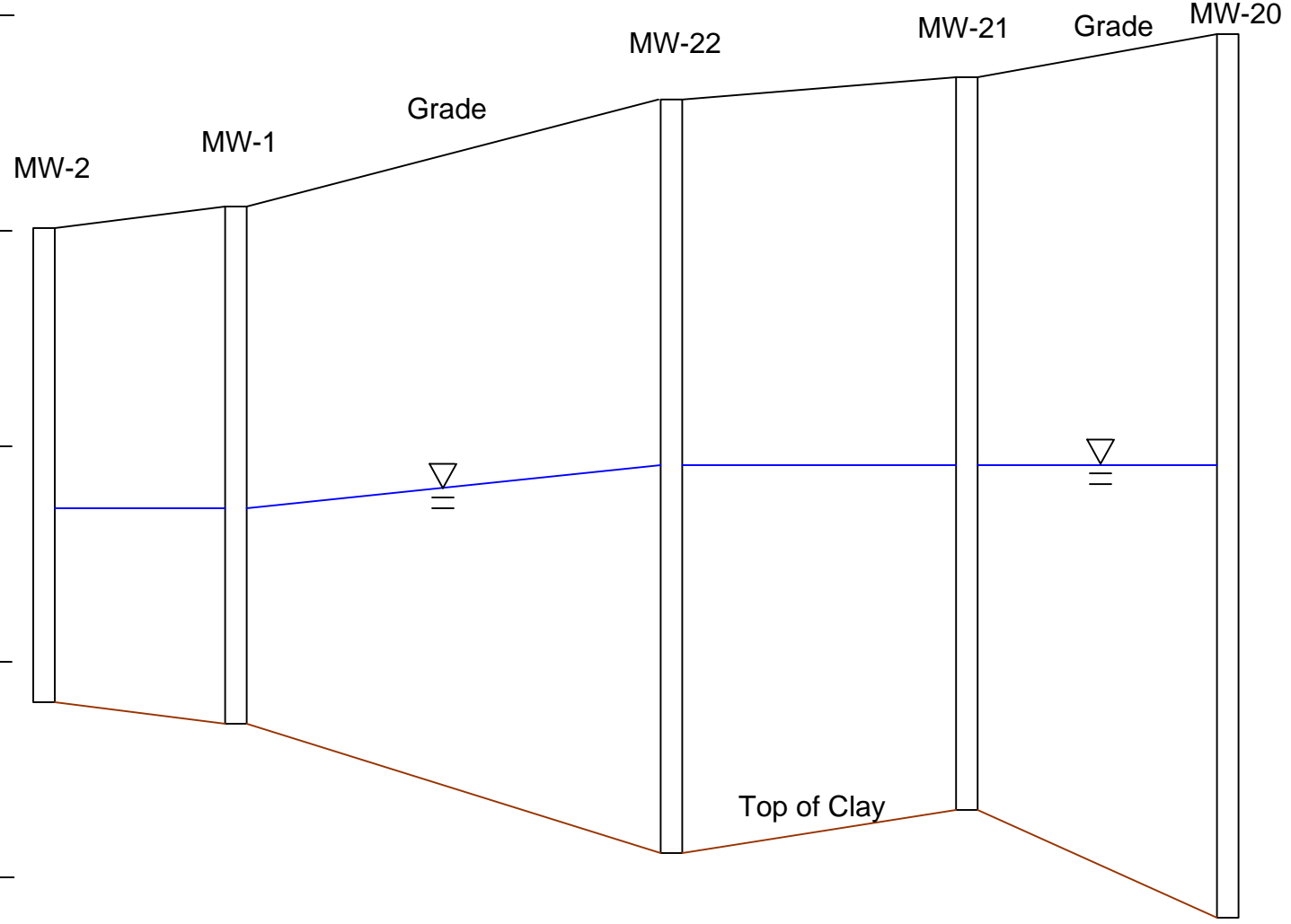
West

East

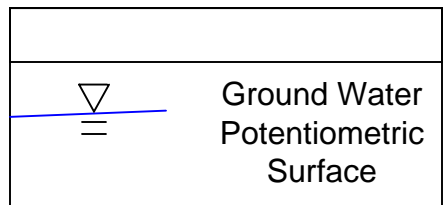
A


A'

180  
175  
170  
165  
160  
155  
Feet above MSL



Legend

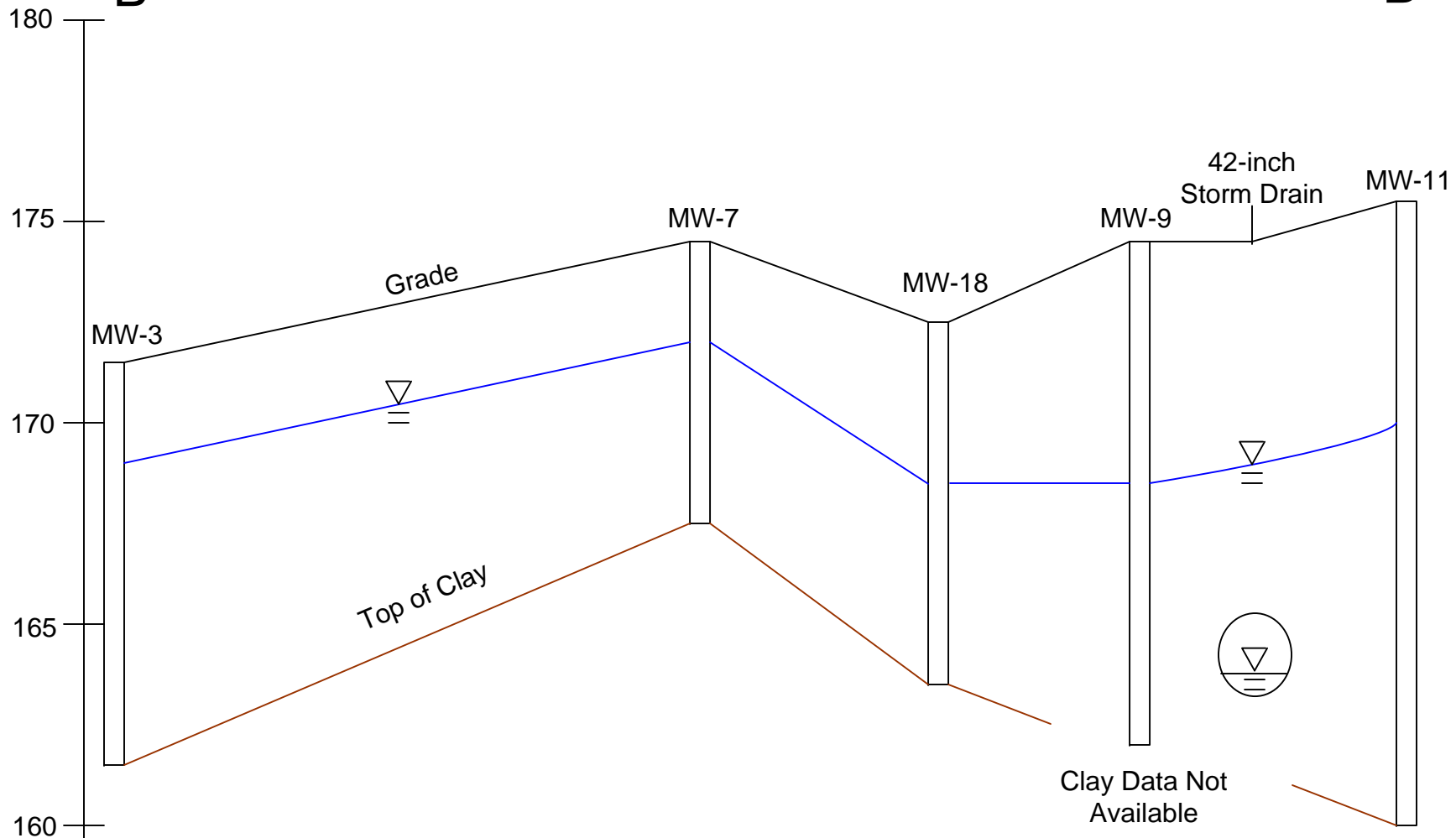


Cross Section A-A'		
TechCity Facility Kingston, NY		
Prepared For:	TechCity	
	Scale	NTS
	Date	May 2009
		7



West  
B

East  
B'



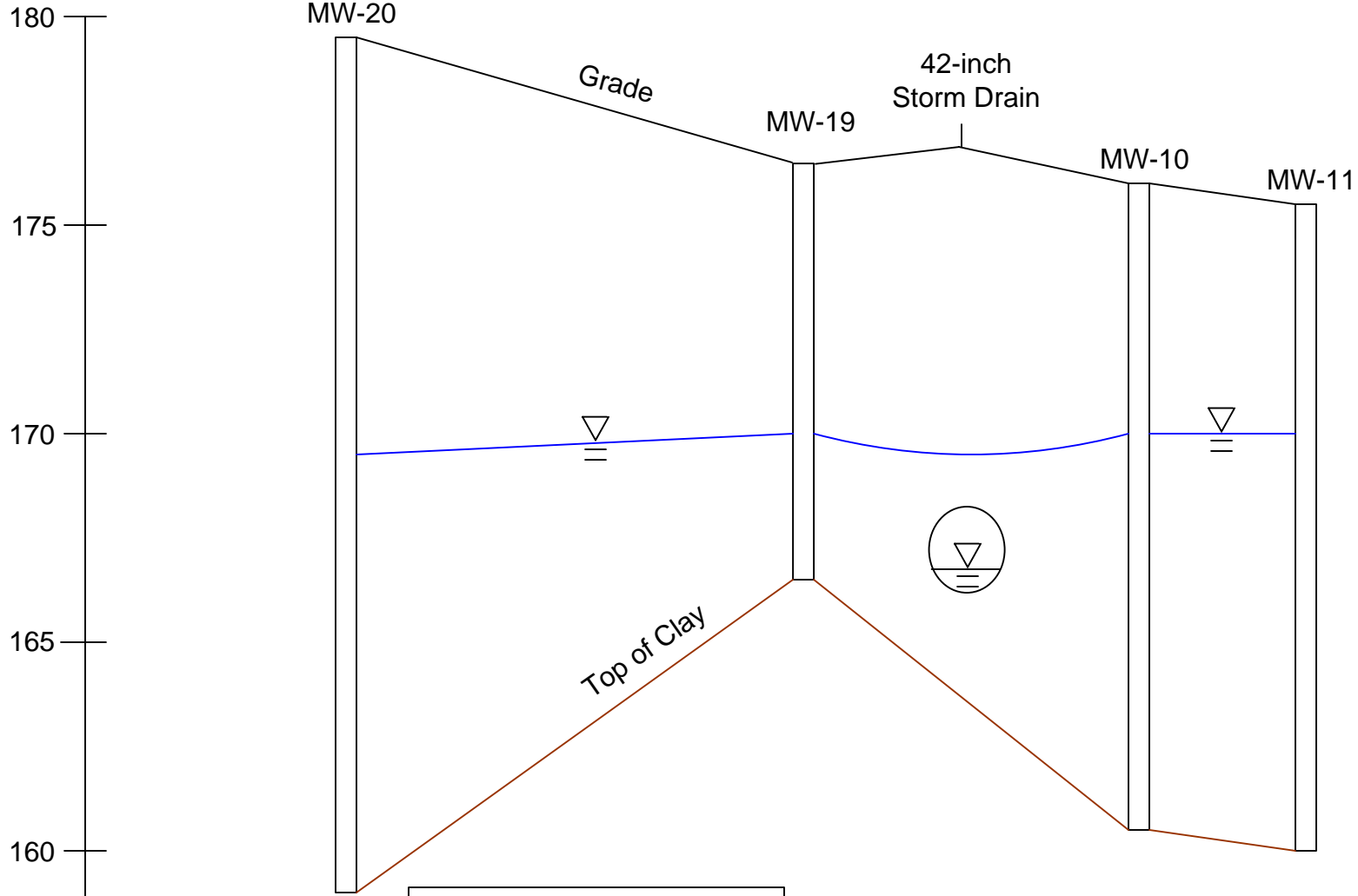
Feet  
above  
MSL

Legend	
	Ground Water Potentiometric Surface
	Storm Water Drain Line

Cross Section B-B'		
TechCity Facility Kingston, NY		
Prepared For:	TechCity	
	Scale	NTS
	Date	May 2009
		Figure
		8

South  
C

North  
C'



Legend	
	Ground Water Potentiometric Surface
	Storm Water Drain Line

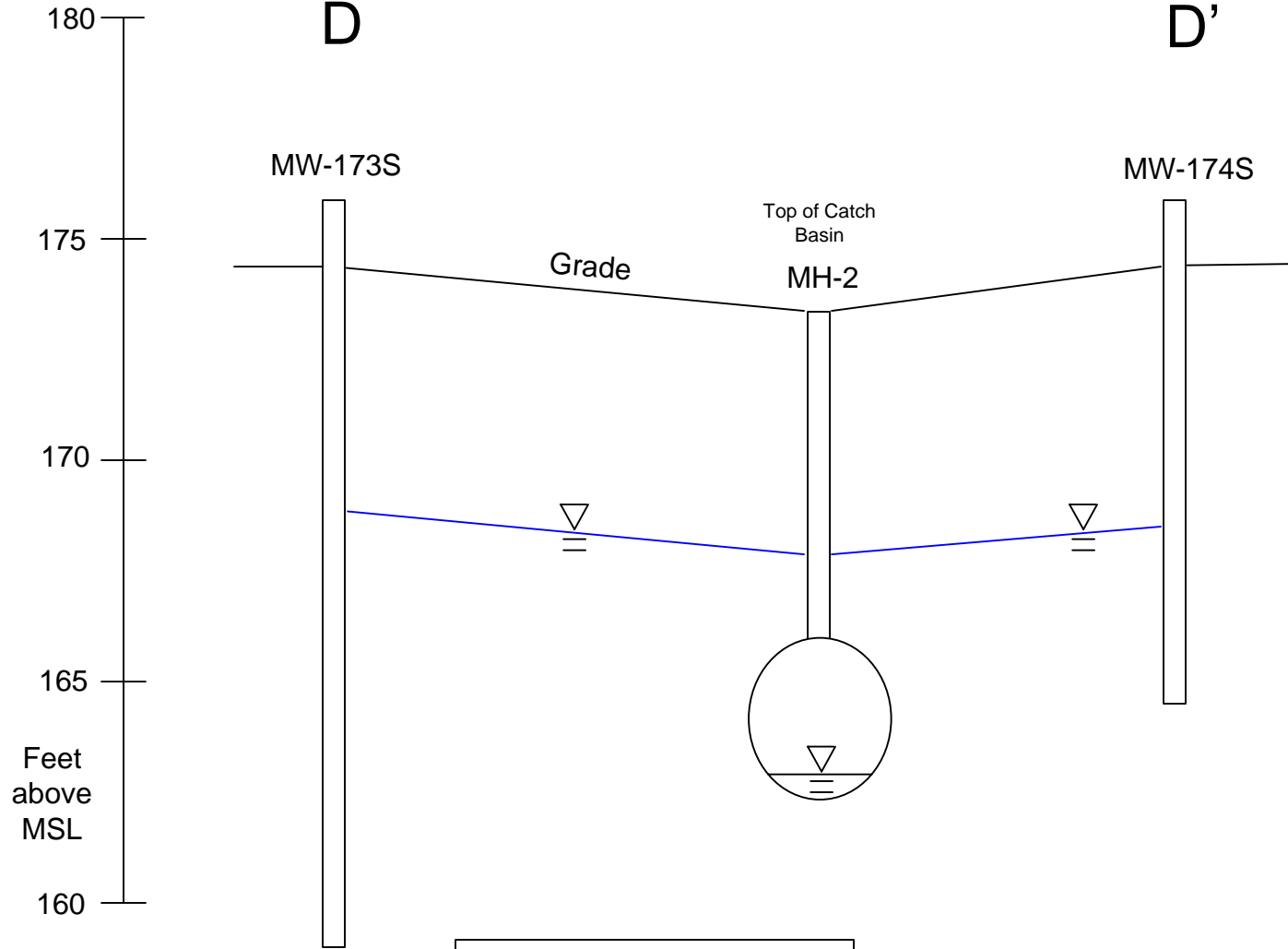
Cross Section C-C' TechCity Facility Kingston, NY		
Prepared For:	TechCity	
	Scale	NTS
	Date	May 2009
		Figure <b>9</b>

North

South

D

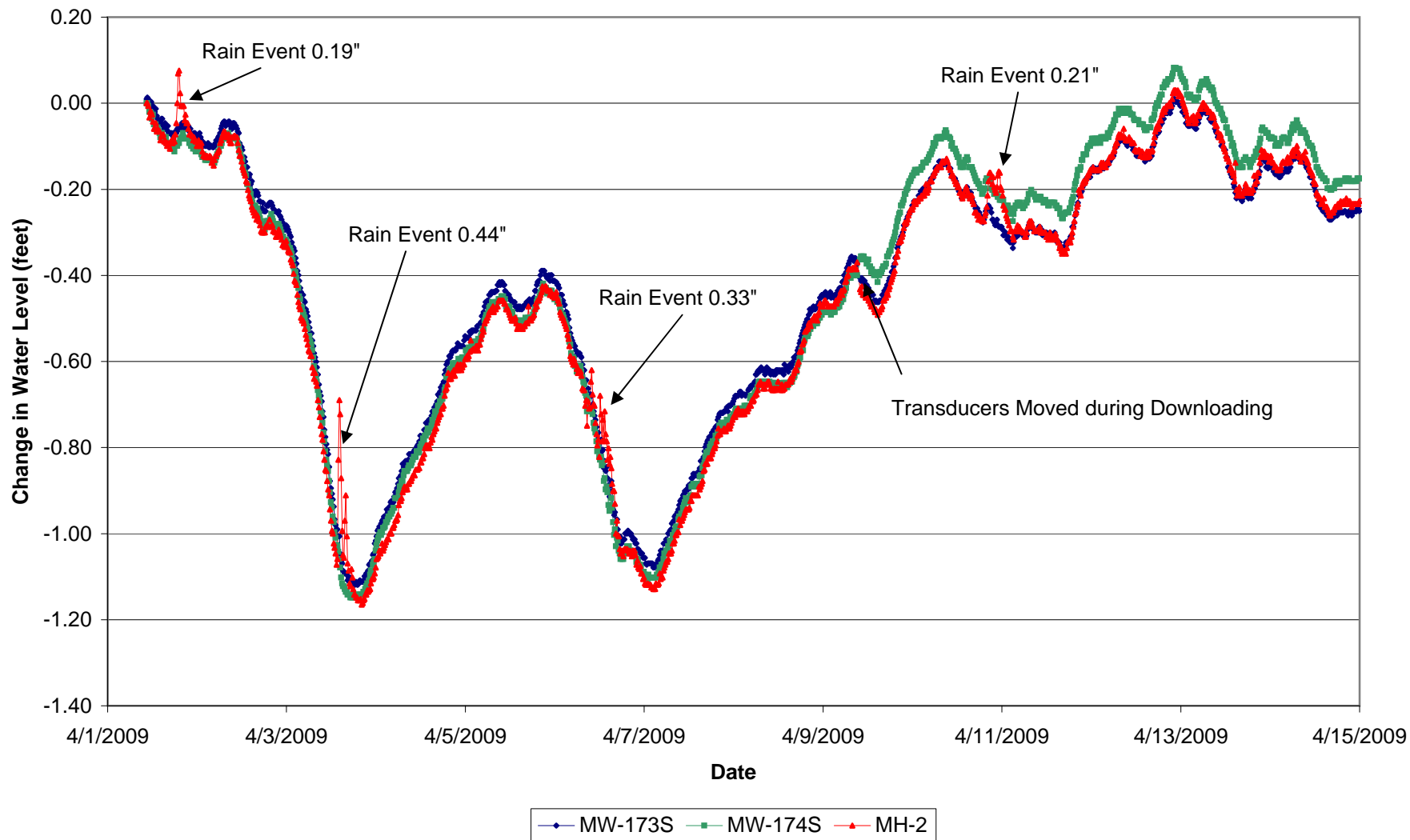
D'



Legend	
	Ground Water Potentiometric Surface
	Storm Water Drain Line

Cross Section D-D' TechCity Facility Kingston, NY		
Prepared For:	TechCity	
	Scale	NTS
	Date	May 2009
		Figure <b>10</b>

**Figure 11 - Pressure Transducer Data  
Water Level Change**



## *TABLES*

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATIONS - PARCEL 1 AND PARCEL 4A**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Well ID	Top of Casing Elevation	Total Depth of Well	Depth to Water	Groundwater Elevation
MW-1	175.49	10.01	6.97	168.52
MW-2	174.98	10.20	6.58	168.40
MW-3	171.47	8.50	2.50	168.97
MW-4	177.16	12.08	7.06	170.10
MW-5	175.61	10.56	4.34	171.27
MW-6	176.72	11.32	6.58	170.14
MW-7	174.39	10.15	2.42	171.97
MW-8	175.62	11.05	5.15	170.47
MW-9	174.88	15.01	6.10	168.78
MW-10	176.05	15.83	6.28	169.77
MW-11	175.6	15.91	5.76	169.84
MW-12	175.06	10.35	4.62	170.44
MW-13	170.27	11.29	2.00	168.27
MW-14	165.45	13.99	4.52	160.93
MW-15	166.76	6.55	NM	NM
MW-16	166.59	11.32	5.89	160.70
MW-17	169.2	9.63	NM	NM
MW-18	172.59	9.63	4.25	168.34
MW-19	176.59	9.63	6.50	170.09
MW-20	179.56	9.63	9.98	169.58
MW-21	178.40	9.63	8.80	169.60
MW-22	177.90	9.63	8.29	169.61
MW-108S	177.26	13.05	6.25	171.01
MW-123AS	178.21	14.4	3.85	174.36
MW-169S	180.08	10.84	9.85	170.23
MW-189	175.52	20.89	NM	NM
MW-173S	179.83	15.42	9.92	169.91
MW-174S	179.89	14.94	9.89	170.00
MW-609S	178.58	11.57	8.12	170.46

**NOTES:**

- 1) Elevations are in feet above mean sea-level.
- 2) Depths are measured in feet from top of casing.
- 3) NM - Not measured.
- 4) All DTW measurements collected on 23 March 2009.
- 5) Top of Casing elevation measurements are based on elevations reported in the IBM 2007 Annual Ground Water Monitoring Report.

**TABLE 2**  
**PRESSURE TRANSDUCER DATA - DAILY SUMMARY**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Date	Time	Measuring Point		
		173S	174S	MH 2
1-Apr-09	10:25:20 AM	0.01	0.00	0.00
2-Apr-09	10:25:20 AM	-0.05	-0.08	-0.08
3-Apr-09	10:25:20 AM	-0.78	-0.81	-0.85
4-Apr-09	10:25:20 AM	-0.81	-0.82	-0.86
5-Apr-09	10:25:20 AM	-0.42	-0.46	-0.47
6-Apr-09	10:25:20 AM	-0.72	-0.74	-0.70
7-Apr-09	10:25:20 AM	-0.91	-0.94	-0.96
8-Apr-09	10:25:20 AM	-0.62	-0.66	-0.67
9-Apr-09	10:25:20 AM	-0.41	-0.36	-0.43
10-Apr-09	10:25:20 AM	-0.16	-0.10	-0.17
11-Apr-09	10:25:20 AM	-0.29	-0.22	-0.30
12-Apr-09	10:25:20 AM	-0.09	-0.02	-0.09
13-Apr-09	10:25:20 AM	-0.16	-0.09	-0.15

**NOTES:**

1) Change in water level relative to original measured level.

**TABLE 3**  
**SUMMARY OF GROUND WATER ANALYTICAL RESULTS - PARCEL 1 AND PARCEL 4A**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Site-Wide Ground Water	Ambient Ground Water Standards*	Sample Designation Parcel 1																				
		TC-P1-MW-01	TC-P1-DUP	TC-P1-MW-02	TC-P1-MW-03	TC-P1-MW-04	TC-P1-MW-05	TC-P1-MW-07	TC-P1-MW-08	TC-P1-MW-12	TC-P1-MW-18	TC-P1-MW-19	TC-P1-MW-19	TC-P1-MW-20	TC-P1-MW-20	TC-P1-DUP	TC-P1-MW-21	TC-P1-MW-22	TC-P1-MW-173S	TC-P1-MW-174S	TC-P1-ASG-02	
Date Sampled		26-Feb-09	26-Feb-09	26-Feb-09	26-Feb-09	26-Feb-09	26-Feb-09	25-Feb-09	25-Feb-09	25-Feb-09	17-Mar-09	17-Mar-09	28-May-09	17-Mar-09	28-May-09	17-Mar-09	17-Mar-09	17-Mar-09	17-Mar-09	17-Mar-09		
<b>VOCs (µ/L)</b>																						
Acetone	50 *	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40.5 U	
2-Butanone	50	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4 U	
1,1-Dichloroethane	5	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	0.4	BDL	0.4	BDL	BDL	<b>202</b>	1.3	BDL
1,2-Dichloroethane	0.6	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>3</b>	BDL	BDL
1,1-Dichloroethene	5	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	<b>136</b>	3.5	BDL
cis-1,2-Dichloroethene	5	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>9.2</b>	1.1	BDL
Methyl tert-butyl ether	10 *	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	5	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>15.6</b>	BDL	BDL
1,1,2-Trichloroethane	1	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>1.5</b>	BDL	BDL
Trichloroethene	5	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>31.8</b>	<b>14.8</b>	BDL
Vinyl chloride	2	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL
1,4-Dioxane	NS	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	719	33	BDL
Freon 113	5	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6	BDL	BDL

**NOTES:**

- 1) Only detected compounds are included in this table.
- 2) Ambient Ground Water Standards - Ground Water Analytical Results Referenced to 6 NYCRR 703.5 - Ambient groundwater standards listed in NYSDEC 6 NYCRR 703.5.
- 3) \* Refers to April 2000 Addendum to June 1998 Division of Water Technical and Operational Guidelines Series (TOGS) No. 1.1.1, Table 1, Groundwater Quality Standard.
- 4) VOCs - volatile organic compounds determined by USEPA Method 8260B.
- 5) µ/L - micrograms per liter.
- 6) BDL - Compound was not detected at a concentration above the laboratory reporting limit.
- 7) **BOLD**- Concentration above the groundwater standards listed in NYSDEC 6 NYCRR 703.5.
- 8) NS - No standard.
- 9) J - estimated value
- 10) U - detected concentration attributed to blank contamination



**TABLE 4**  
**SOIL VAPOR INTRUSION EVALUATION - HELIUM LEAK TEST RESULTS**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Sample ID	Pre-sample period/Post-Sample period	[He] initial in shroud (%)	[He] in sample point during purge (%)	[He] final in shroud (%)	Average [He] in shroud during purge	Adjusted concentration of atmospheric air in sample point during purge (%)	Notes
TC-P1-ASG-01	Pre	95	0	15	55	0.00	OK
	Post	75	0.0275	15	45	0.06	OK
TC-P4A-ASG-01	Pre	65	0.12	34	49.5	0.24	OK
	Post	65	0.22	17	41	0.54	OK
TC-P4A-ASG-02	Pre	90	0	55	72.5	0.00	OK
	Post	65	0	20	42.5	0.00	OK
TC-P4A-ASG-03	Pre	90	4.3	55	72.5	5.93	Both pre- and post- sampling He tests exceed 5% threshold set forth in workplan. Post-sampling He test results exceed the 10% threshold typically allowed by the NYSDOH VI guidance document. Sample will be analyzed, and results will be evaluated with knowledge that the atmospheric concentration in the sample may be as high as 15%.
	Post	75	9.5	60	67.5	14.07	
TC-P4A-ASG-04	Pre	75	0.25	18	46.5	0.54	
	Post	65	0.24	25	45	0.53	
TC-P1-SS-01	Pre	70	0.0325	12	41	0.08	Post-sampling He test results exceed the 1% threshold set forth by work plan. However, the result is well below the 10% threshold typically allowed by NYSDOH VI guidance document and the sample is considered to be valid.
	Post	95	1.24	95	95	1.31	
TC-P1-SS-02	Pre	90	0.045	15	52.5	0.09	
	Post	95	0.095	10	52.5	0.18	
TC-P1-SS-03	Pre	75	0	15	45	0.00	
	Post	95	0.1	10	52.5	0.19	
TC-P1-SS-04	Pre	25	0.0125	17	21	0.06	
	Post	95	0.85	95	95	0.89	
TC-P4A-SS-01	Pre	88	0.0625	24	56	0.11	
	Post	92	0.025	12.5	52.25	0.05	
TC-P4A-SS-02	Pre	50	0	10	30	0.00	
	Post	95	0	12	53.5	0.00	
TC-P4A-SS-03	Pre	95	0.125	95	95	0.13	Post-sampling He test results exceed the 1% threshold set forth by work plan. However, the results is well below the 10% threshold typically allowed by NYSDOH VI guidance document and the sample is considered to be valid.
	Post	95	0.98	95	95	1.03	
TC-P4A-SS-04	Pre	60	0.91	24	42	2.17	Pre-sampling He test results exceed the 1% threshold set forth by work plan. However, the results is well below the 10% threshold typically allowed by the NYSDOH VI guidance document and the sample is considered to be valid.
	Post	95	0.47	18.1	56.55	0.83	

**TABLE 5A**  
**SUMMARY OF AIR ANALYTICAL RESULTS - PARCEL 1**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Site-Wide Air	NYSDOH Guidance Value	Sample Designation								
		Parcel 1								
		TC-P1-SS-01	TC-P1-IA-01	TC-P1-SS-02	TC-P1-IA-02	TC-P1-SS-03	TC-P1-IA-03	TC-P1-SS-04	TC-P1-IA-04	TC-P1-OA-1
Date Sampled	13-Mar-09	13-Mar-09	13-Mar-09	13-Mar-09	13-Mar-09	13-Mar-09	13-Mar-09	13-Mar-09	13-Mar-09	13-Mar-09
<b>VOCs (µg/m3)</b>										
Acetone	NS	85.2	13 J	35.2	12.7 J	19.6	6	82 J	17.3 J	6.42
Benzene	NS	12.3	1.14	2.06	0.95	ND	ND	14.3	2.08	0.723
1,3-Butadiene	NS	ND	ND	ND	ND	ND	ND	13.8	ND	ND
2-Butanone	NS	11.1	1.53	4.37	1.26	3.87	7.91	14.5	1.79	0.705
Carbon disulfide	NS	10.2	ND	1.84	ND	1.89	ND	3.66	ND	ND
Carbon tetrachloride	*	0.338	0.566	0.448	0.556	0.347	0.559	ND	0.563	0.551
Chloroethane	NS	ND	1.1	ND	ND	ND	ND	ND	ND	ND
Chloroform	NS	ND	ND	ND	ND	3.14	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	1.15	ND	1.04	ND	1.28	1.16
Cyclohexane	NS	2.73	ND	ND	ND	ND	ND	5.9	ND	ND
Dichlorodifluoromethane	NS	2.99	2.7	3.1	2.9	3.18	3.09	6.54	3.24	2.32
Ethanol	NS	59.7	92.2	111	45.4	123	26.8	18.2	59.7	ND
Ethyl acetate	NS	ND	ND	9.98	ND	8.18	ND	ND	ND	ND
Ethylbenzene	NS	6.32	ND	2.72	ND	ND	ND	3.95	ND	ND
Heptane	NS	3.11	ND	3.33	1.2	2.09	ND	2.55	1.8	ND
n-Hexane	NS	3.56	ND	ND	ND	ND	ND	3.62	ND	ND
Isopropanol	NS	ND	14.6	2.95	17	R	7.91	R	20.3	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	0.92	ND
Methylene chloride	60	5.67	ND	4.56	1.75	4.77	ND	5.45	ND	ND
Propylene	NS	ND	ND J	ND	ND J	ND	ND J	81.8	ND J	ND J
Styrene	NS	3.92	ND	2.06	ND	17.6	ND	3.31	0.864	ND
Toluene	NS	36.8	0.805	16.4	1.07	4.33	1.05	23.6	3.41	0.852
1,1,1-Trichloroethane	**	ND	ND	ND	ND	ND	ND	3.51	ND	ND
Trichloroethene	5 *	0.327	ND	0.298	ND	1.32	ND	0.296	0.116	ND
Trichlorofluoromethane	NS	ND	1.38	ND	1.43	ND	1.43	5.41	1.63	1.35
m,p-Xylene	NS	14.8	ND	7.43	ND	ND	ND	10.1	ND	ND
o-Xylene	NS	4.22 J	ND J	1.96 J	ND J	ND J	ND J	2.89 J	ND J	ND

**NOTES:**

- 1) \* refer to Table 9 for the NYSDOH Soil Vapor/Indoor Air Matrix 1; \*\* refer to Table 10 for the NYSDOH Soil Vapor/Indoor Air Matrix 2.
- 2) VOCs = Volatile organic compounds by "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition 1997, EPA/625/R-96/010B", Compendium Method TO-15, "Determination Of VOCs In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)".
- 3) µg/m3 - micrograms per meter cubed.
- 4) NS - No Standard.
- 5) ND - Compound was not detected at a concentration above the laboratory reporting limit.
- 6) R - result was rejected during data usability review.
- 7) J - result is an estimated value.

**TABLE 5B**  
**SUMMARY OF AIR ANALYTICAL RESULTS - PARCEL 4A**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Site-Wide Air	NYSDOH Guidance Value	Sample Designation									
		Parcel 4A									
		TC-P4A-SS-01	TC-P4A-IA-01	TC-P4A-SS-02	TC-P4A-SS-02A	TC-P4A-IA-02	TC-P4A-SS-03	TC-P4A-IA-03	TC-P4A-SS-04	TC-P4A-IA-04	TC-P4A-OA-01
Date Sampled	13-Mar-09	13-Mar-09	13-Mar-09	28-May-09	16-Mar-09	13-Mar-09	13-Mar-09	16-Mar-09	16-Mar-09	13-Mar-09	
<b>VOCs (µg/m3)</b>											
Acetone	NS	17.1	4.45	30.2	111 J	4.5 J	19	7.88 J	283	26.9 J	6.83
Benzene	NS	1.96	ND	ND	4.63	ND	ND	ND	3.73	1.66	0.663
2-Butanone	NS	2.16	0.827	4.34	11.3	ND	ND	ND	25.8	43.6	0.87
Carbon disulfide	NS	ND	ND	1.97	4.63	ND	ND	ND	4.96	ND	ND
Carbon tetrachloride	*	ND	0.556	ND	ND	0.568	ND	0.562	0.52	0.454	0.554
Chlorobenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND	4.01	ND
Chloromethane	NS	ND	1	ND	ND	1.12	ND	1.04	ND	2.15	1.13
Cyclohexane	NS	ND	ND	ND	1.18	ND	ND	ND	ND	2.38	ND
Dichlorodifluoromethane	NS	3.38	2.62	2.95	2.98	2.57	7220 E	4.55	2.92	2.39	2.33
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	38.2	ND
1,4-Dioxane	NS	ND	ND	ND	1.08	ND	ND	ND	18.2	498 E	ND
Ethanol	NS	12.4	ND	1580	31.5	ND	262	ND	4240 E	11.8	ND
Ethyl acetate	NS	ND	ND	74.6	ND	ND	ND	ND	79.2	ND	ND
Ethylbenzene	NS	ND	ND	ND	2.45	ND	ND	ND	12.6	2.76	ND
Heptane	NS	ND	ND	14.4	22.5	ND	ND	ND	20.4	9.27	ND
n-Hexane	NS	ND	ND	ND	3.94 J	ND	ND	ND	ND	4.25	ND
Isopropanol	NS	R	2.73	R	34.0	ND	R	ND	R	14.7	ND
Methylene chloride	60	4.5	ND	4.93	3.03	ND	ND	ND	14.6	250	ND
Propylene	NS	ND	ND J	ND	ND	ND J	ND	ND J	ND	ND J	ND J
Styrene	NS	ND	ND	ND	ND	ND	ND	ND	4.5	ND	ND
Toluene	NS	11.8	0.923	9.21	53.7	ND	ND	0.869	30.5	3.78	ND
1,1,1-Trichloroethane	**	5.21	ND	ND	3.92	ND	ND	ND	ND	ND	ND
Trichloroethene	5 *	0.336	ND	ND	0.562	ND	11.6	0.184	1.05	0.27	ND
Trichlorofluoromethane	NS	ND	1.45	2.95	3.32	1.47	ND	1.31	3.3	1.55	1.43
Vinyl chloride	*	ND	ND	ND	ND	ND	ND	ND	0.151	1.04	ND
m,p-Xylene	NS	4.41	ND	ND	6.74	ND	ND	ND	18.9	7.88	ND
o-Xylene	NS	ND J	ND J	ND J	1.47	ND J	ND J	ND J	4.76 J	2.17 J	ND

**NOTES:**

- 1) \* refer to Table 9 for the NYSDOH Soil Vapor/Indoor Air Matrix 1; \*\* refer to Table 10 for the NYSDOH Soil Vapor/Indoor Air Matrix 2.
- 2) VOCs = Volatile organic compounds by "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition 1997, EPA/625/R-96/010B", Compendium Method TO-15, "Determination Of VOCs In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)".
- 3) µg/ m3 - micrograms per meter cubed.
- 4) NS - No Standard.
- 5) ND - Compound was not detected at a concentration above the laboratory reporting limit.
- 6) R - result was rejected during data usability review.
- 7) J - result is an estimated value.
- 8) E - target compound exceeded calibration range.

**TABLE 6**  
**SUMMARY OF SOIL GAS SAMPLES**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Sample Designation	NYSDOH Guidance Value	TC-P1-ASG-01	TC-DUP-01	TC-P1-OA-2	TC-P4A-ASG-01	TC-P4A-ASG-02	TC-P4A-ASG-03	TC-P4A-ASG-04	TC-P4A-OA-02
		Parcel 1			Parcel 4A				
Sample Type		Soil Vapor	Outdoor Ambient		Soil Vapor				Outdoor Ambient
Sample Date		16-Mar-09	16-Mar-09	16-Mar-09	16-Mar-09	16-Mar-09	16-Mar-09	16-Mar-09	16-Mar-09
<b>VOCs (µg/m3)</b>									
Acetone	NS	720 E	8.11 J	8.18	967	519	542	1980	5.52 J
Benzene	NS	1.930	0.860	0.816	166	ND	2.33	14.3	0.875
2-Butanone	NS	20.7	1.05	1.1	ND	ND	30.1	77.7	1.14
Carbon disulfide	NS	15.8	ND	0.551	ND	ND	10.4	23.9	ND
Carbon tetrachloride	*	ND	ND	ND	ND	ND	ND	ND	0.569
Chloroform	NS	4.6	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	1.03	1.07	ND	ND	ND	ND	1.08
1,4-Dichlorobenzene	NS	14.1	ND	ND	77.2	ND	19.4	22.4	ND
Dichlorodifluoromethane	NS	2.86	2.30	2.31	ND	ND	ND	ND	2.19
Ethanol	NS	ND	ND	ND	ND	ND	11.6	ND	ND
Ethylbenzene	NS	9.24	ND	ND	ND	ND	7.04	ND	ND
Heptane	NS	3.46	ND	ND	ND	ND	5.98	11.2	ND
n-Hexane	NS	ND	ND	ND	ND	ND	3.05	ND	ND
2-Hexanone	NS	3.21	ND	ND	ND	ND	6.32	12.4	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	4.45	ND	ND
Methylene chloride	60	ND	ND	ND	ND	ND	4.54	ND	ND
Propylene	NS	7.74	ND J	ND J	ND	ND	12.1 J	40.8	ND J
Tetrachloroethene	100 **	5.3	ND	ND	ND	ND	6.06	ND	ND
Toluene	NS	19.000	0.840	0.817	20700	17800	25	1270	ND
Trichloroethene	5 *	0.286	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	1.28	1.22	ND	ND	ND	ND	1.31
1,2,4- Trimethylbenzene	NS	8.71	ND	ND	ND	ND	5.28	ND	ND
1,3,5- Trimethylbenzene	NS	3.79	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	NS	36.1	ND	ND	ND	ND	23.3	23.9	ND
o-Xylene	NS	12.4	ND	ND	ND	ND	8.43	ND	ND

**NOTES:**

- 1) \* refer to Table 9 for the NYSDOH Soil Vapor/Indoor Air Matrix 1; \*\* refer to Table 10 for the NYSDOH Soil Vapor/Indoor Air Matrix 2.
- 2) VOCs = Volatile organic compounds by "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition 1997, EPA/625/R-96/010B", Compendium Method TO-15, "Determination Of VOCs In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)".
- 3) µg/m3 - micrograms per meter cubed.
- 4) NS - No Standard.
- 5) ND - Compound was not detected at a concentration above the laboratory reporting limit.
- 6) R - result was rejected during data usability review.
- 7) J - result is an estimated value.
- 8) E - target compound exceeded calibration range.

**TABLE 7**  
**SUMMARY OF TOP OF CLAY ELEVATIONS - PARCEL 1**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Well ID	Top of Casing Elevation	Ground Water Elevation	Top of Clay Elevation
MW-1	175.5	168.5	163.7
MW-2	175.0	168.4	164.0
MW-3	171.5	169.0	161.6
MW-4	177.2	170.1	169.3
MW-5	175.6	171.3	164.9
MW-6	176.7	170.1	164.9
MW-7	174.4	172.0	167.6
MW-8	175.6	170.5	165.7
MW-9	174.9	168.8	ID
MW-10	176.1	169.8	160.3
MW-11	175.6	169.8	159.8
MW-12	175.1	170.4	168.3
MW-13	170.3	168.3	ID
MW-14	165.5	160.9	161.8
MW-15	166.8	NM	164.1
MW-16	166.6	160.7	162.9
MW-17	169.2	NM	ID
MW-18	172.6	168.3	163.6
MW-19	176.6	170.1	166.6
MW-20	179.6	169.6	159.1
MW-21	178.4	169.6	161.4
MW-22	177.9	169.6	160.4

**NOTES:**

- 1) Elevations are in feet above mean sea-level.
- 2) Depths are measured in feet from top of casing.
- 3) NM - Water Level Not Measured
- 4) ID - Insufficient Clay Data
- 5) Top of Casing elevation measurements are based on elevations reported in the IBM 2007 Annual Ground Water Monitoring Report.

**TABLE 8**  
**NYSDOH SOIL VAPOR / INDOOR AIR MATRIX 1**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Sub-Slab Vapor Concentration of Compound (mcg/m <sup>3</sup> )	Indoor Air Concentration of Compound (mcg/m <sup>3</sup> )			
	< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
< 5	1. No further action	2. Take reasonable and practical actions to identify sources(s) and reduce exposures	3. Take reasonable and practical actions to identify sources(s) and reduce exposures	4. Take reasonable and practical actions to identify sources(s) and reduce exposures
5 to < 50	5. No further action	6. Monitor	7. Monitor	8. Mitigate
50 to < 250	9. Monitor	10. Monitor/Mitigate	11. Mitigate	12. Mitigate
250 and above	13. Mitigate	14. Mitigate	15. Mitigate	16. Mitigate

**NOTES:**

*Matrix 1 Applies to the following compounds:*

Trichloroethene  
 Vinyl Chloride  
 Carbon Tetrachloride

From the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, Prepared by New York State Department of Health.

**TABLE 9**  
**NYSDOH SOIL VAPOR / INDOOR AIR MATRIX 2**  
**TECHCITY FACILITY - KINGSTON, NEW YORK**  
**NYSDEC SITE NUMBER 3-5154-00067-00090**  
**ERM PROJECT NUMBER 0096812**

Sub-Slab Vapor Concentration of Compound (mcg/m <sup>3</sup> )	Indoor Air Concentration of Compound (mcg/m <sup>3</sup> )			
	< 3	3 to < 30	30 to < 100	100 and above
< 100	1. No further action	2. Take reasonable and practical actions to identify sources(s) and reduce exposures	3. Take reasonable and practical actions to identify sources(s) and reduce exposures	4. Take reasonable and practical actions to identify sources(s) and reduce exposures
100 to < 1,000	5. Monitor	6. Monitor/Mitigate	7. Mitigate	8. Mitigate
1,000 and above	9. Mitigate	10. Mitigate	11. Mitigate	12. Mitigate

**NOTES:**

*Matrix 2 Applies to the following compounds:*

- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene

From the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, Prepared by New York State Department of Health.

*APPENDIX A*

*Storm Water Pipeline Observation Reports  
& DVD*





PIPELINE OBSERVATION SYSTEM MANAGEMENT

**Project**

<b>Project Name</b>	ERM	<b>Location</b>	TECH CITY,(OLD IBM BUILDING)
<b>Date</b>	3/23/2009 9:09:31 AM	<b>Direction Of Survey</b>	Upstream
<b>City</b>	KINGSTON, NY	<b>PO Number</b>	NN-2244248
<b>Run Number</b>	1	<b>Purpose</b>	Infiltration/Inflow Investigation
<b>Operator Name</b>	FORREST WALLACE	<b>Completed</b>	Yes
<b>Comments</b>			

**Pipe**

<b>Asset ID</b>		<b>Pipe Size</b>	42 INCH
<b>Pipe Material</b>	Concrete Segments (unbolted)	<b>Pipe Shape</b>	Circular
<b>Lining Method</b>	Other	<b>Total Length</b>	
<b>Length Surveyed</b>	27.5	<b>Year Laid</b>	0000
<b>Year Renewed</b>	0000	<b>Sewer Use</b>	Stormwater

**Manhole**

<b>Start MH Number</b>	NONE	<b>Start MH Depth</b>	14.3 FEET
<b>Start MH Location</b>	BUILDING 25 PARKING LOT.	<b>Start MH Notes</b>	LITE FLOW, WITH BASIN IN BOTTOM
<b>End MH Number</b>	NONE	<b>End MH Depth</b>	UNKNOWN
<b>End MH Location</b>	END OF BANK OF AMERICA BUILDING	<b>End MH Notes</b>	
<b>Amount of Flow</b>	LITE	<b>Signs Of Surcharge</b>	No

**Other**

<b>Media Number</b>	DVD	<b>Truck Number</b>	8748
<b>Contractor Name</b>	CLEAN HARBORS ENVIRONMENTAL SERVICES INC., INDUSTRIAL SERVICES DIVISION	<b>Weather</b>	Dry
<b>VCR Start Index</b>		<b>VCR End Index</b>	

**Project Name: ERM**

Date: 3/23/2009 9:09:31 AM

Location: TECH CITY,(OLD IBM BUILDING) Start MH Number: NONE

Total Distance: 27.5

End MH Number: NONE

Run Number: 1

Direction Of Survey: Upstream

Footage	Fault Observation	Time	Picture
6.8	<b>Start Inspection</b> Severity: None Value 2nd Dimension: 0 Value Percent: 0 Comments: APPX. 3 INCHES OF WATER	56	
6.9	<b>SAND AND DEBRIS UNDER            WATER</b> Severity: None Value 2nd Dimension: 0 Value Percent: 0	02:47	
20.5	<b>UNKNOWN BUILD UP</b> Position: 3 Severity: None Value 2nd Dimension: 0 Value Percent: 0	07:27	
23.8	<b>INFILTRATION AT SEAM</b> Position: 3 Severity: Moderate Value 2nd Dimension: 0 Value Percent: 0	09:05	
23.8	<b>INFILTRATION AT SEAM.</b> Position: 9 Severity: Moderate Value 2nd Dimension: 0 Value Percent: 0	10:33	
	<b>End Inspection</b> Severity: None Value 2nd Dimension: 0		

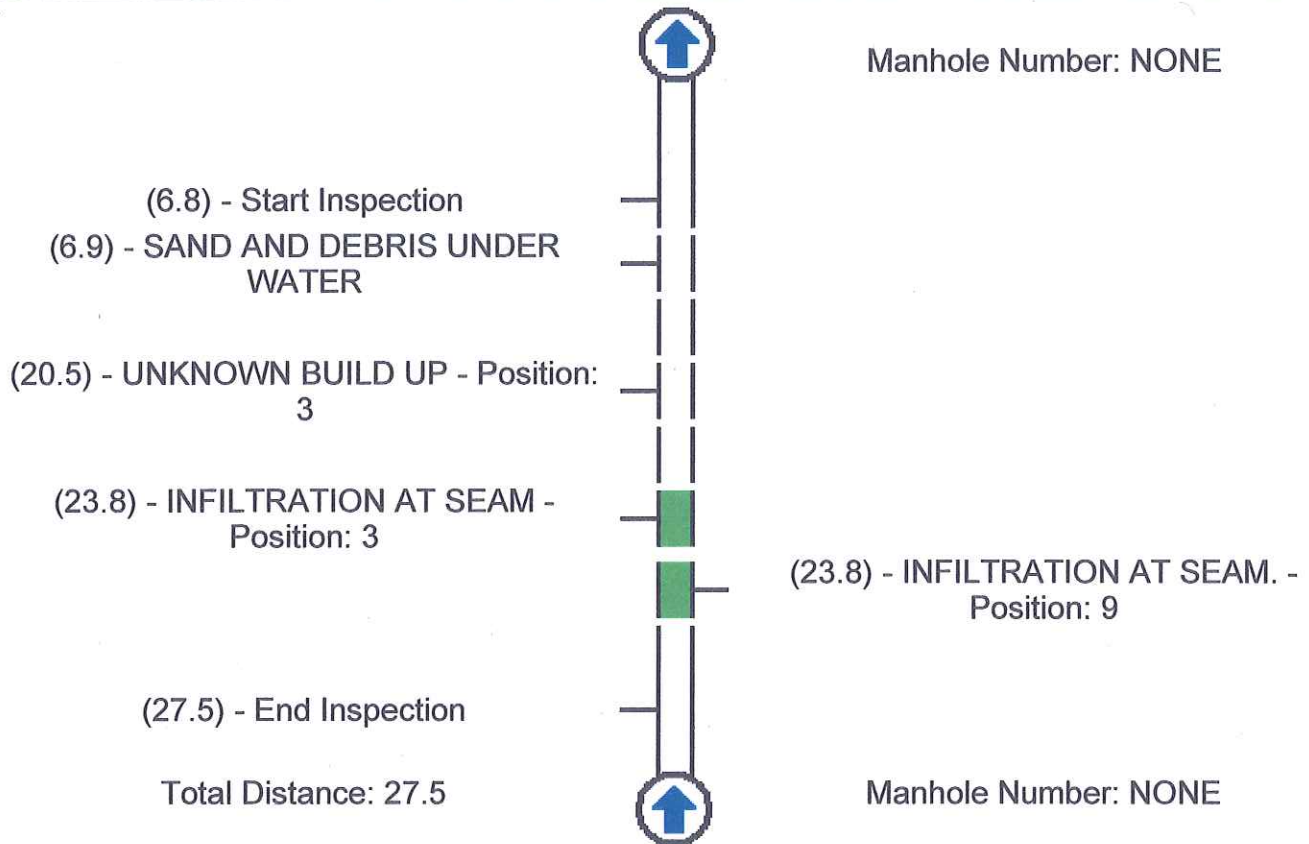
<b>27.5</b>	<b>Value Percent: 0 Comments: SAND AND DEBRIS.</b>	<b>16:44</b>	
-------------	--	--------------	--

# Project Name: ERM

**Date:** 3/23/2009 9:09:31 AM  
**Location:** TECH CITY,(OLD IBM BUILDING)  
**Total Distance:** 27.5  
**Run Number:** 1  
**Pipe Size:** 42 INCH

**Asset ID:**  
**Start MH Number:** NONE  
**End MH Number:** NONE  
**Direction Of Survey:** Upstream  
**Pipe Material:** Concrete Segments (unbolted)

Severity
Light
Moderate
Average
Heavy
Severe



# Videos Created for Session ERM

NONE-NONE-03232009-094030AM-U.mpg


**PIPELINE OBSERVATION SYSTEM MANAGEMENT**
**Project**

<b>Project Name</b>	ERM	<b>Location</b>	TECH CITY,(OLD IBM BUILDING)
<b>Date</b>	3/23/2009 11:06:04 AM	<b>Direction Of Survey</b>	Downstream
<b>City</b>	KINGSTON, NY	<b>PO Number</b>	NN-2244248
<b>Run Number</b>	2	<b>Purpose</b>	Infiltration/Inflow Investigation
<b>Operator Name</b>	FORREST WALLACE	<b>Completed</b>	Yes
<b>Comments</b>			

**Pipe**

<b>Asset ID</b>		<b>Pipe Size</b>	42 INCH
<b>Pipe Material</b>	Concrete Segments (unbolted)	<b>Pipe Shape</b>	Circular
<b>Lining Method</b>	Other	<b>Total Length</b>	
<b>Length Surveyed</b>	47.4	<b>Year Laid</b>	0000
<b>Year Renewed</b>	0000	<b>Sewer Use</b>	Stormwater

**Manhole**

<b>Start MH Number</b>	NONE	<b>Start MH Depth</b>	14.3 FEET
<b>Start MH Location</b>	BUILDING 25 PARKING LOT.	<b>Start MH Notes</b>	LITE FLOW, WITH BASIN IN BOTTOM
<b>End MH Number</b>	NONE	<b>End MH Depth</b>	UNKNOWN
<b>End MH Location</b>	END OF BANK OF AMERICA BUILDING	<b>End MH Notes</b>	
<b>Amount of Flow</b>	LITE	<b>Signs Of Surcharge</b>	No

**Other**

<b>Media Number</b>	DVD	<b>Truck Number</b>	8748
<b>Contractor Name</b>	CLEAN HARBORS ENVIRONMENTAL SERVICES INC., INDUSTRIAL SERVICES DIVISION	<b>Weather</b>	Dry

<b>VCR Start Index</b>		<b>VCR End Index</b>	
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**Project Name: ERM**

Date: 3/23/2009 11:06:04 AM



Location: TECH CITY,(OLD IBM BUILDING) Start MH Number: NONE



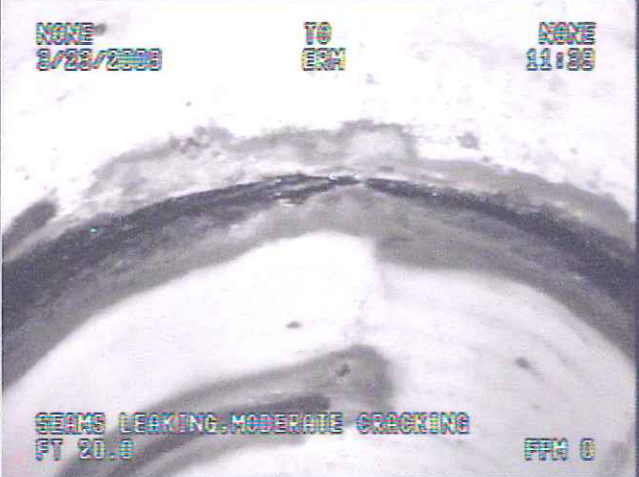
Total Distance: 47.4

End MH Number: NONE

Run Number: 2

Direction Of Survey: Downstream

Footage	Fault Observation	Time	Picture
2.6	<p>Start Inspection Severity: None Value 2nd Dimension: 0 Value Percent: 0</p>	33	 <p>NONE 3/23/2009 TO ERM NONE 11:31</p> <p>Start Inspection FT 2.6 EPM 0</p>
7.9	<p>POSSIBLE BREAK ON BOTTOM OF PIPE Severity: None Value 2nd Dimension: 0 Value Percent: 0</p>	03:43	 <p>NONE 3/23/2009 TO ERM NONE 11:34</p> <p>POSSIBLE BREAK ON BOTTOM OF PIPE FT 7.9 EPM 0</p>

<p>12.3</p>	<p><b>INFILTRATION AT SEAM</b>  Severity: None  Value 2nd Dimension: 0  Value Percent: 0</p>	<p>04:37</p>	
<p>12.3</p>	<p><b>INFILTRATION AT SEAM</b>  Severity: None  Value 2nd Dimension: 0  Value Percent: 0</p>	<p>06:52</p>	
<p>20.0</p>	<p><b>SEAMS LEAKING, MODERATE CRACKING</b>  Severity: None  Value 2nd Dimension: 0  Value Percent: 0</p>	<p>08:30</p>	



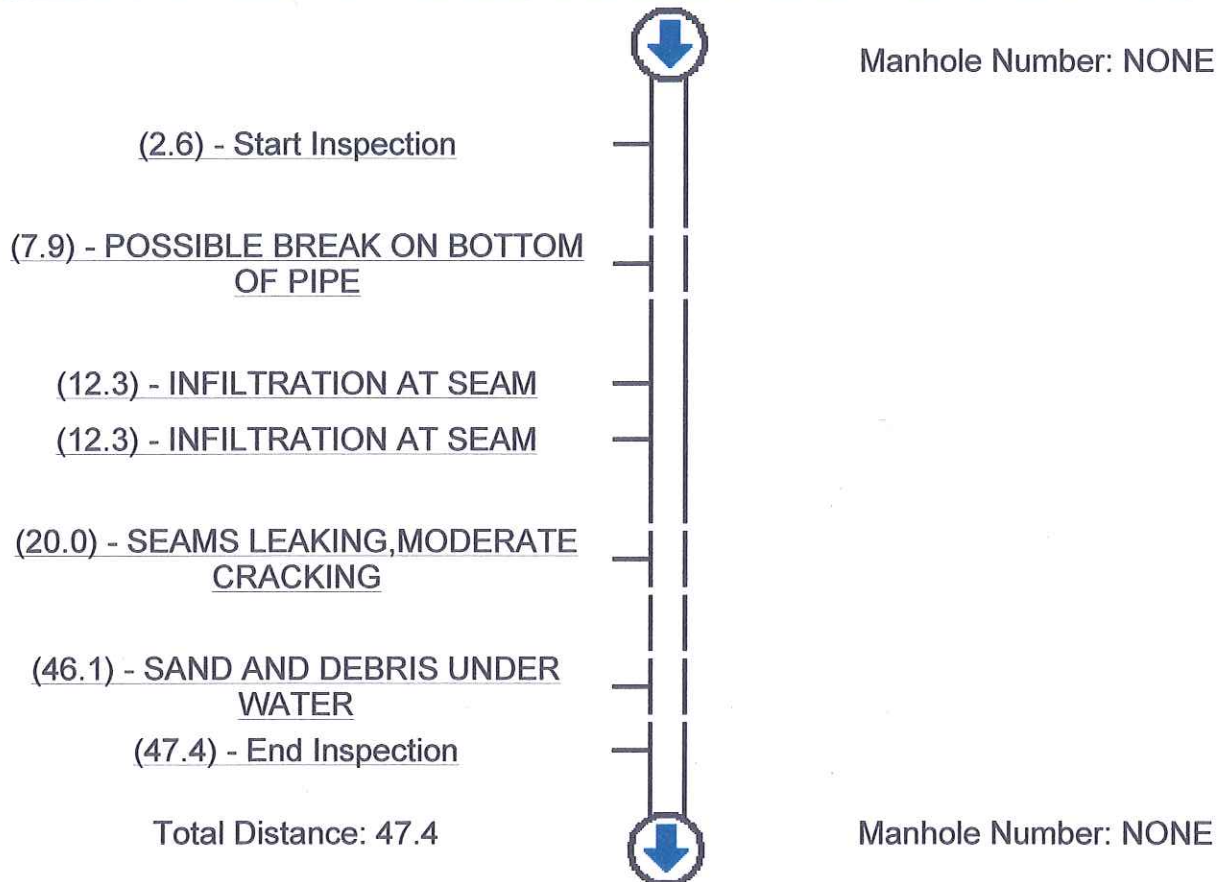
<p>46.1</p>	<p><b>SAND AND DEBRIS UNDER WATER</b>  <b>Severity: None</b>  <b>Value 2nd Dimension: 0</b>  <b>Value Percent: 0</b></p>	<p>10:34</p>	<p>NONE 3/23/2009 TO ERM NONE 11:40  SAND AND DEBRIS UNDER WATER FT 46.1 FPM 0</p>
<p>47.4</p>	<p><b>End Inspection</b>  <b>Severity: None</b>  <b>Value 2nd Dimension: 0</b>  <b>Value Percent: 0</b>  <b>Comments: SAND AND DEBRIS</b></p>	<p>23:03</p>	<p>NONE 3/23/2009 TO ERM NONE 11:58  End Inspection FT 47.4 FPM 0</p>

# Project Name: ERM

**Date:** 3/23/2009 11:06:04 AM  
**Location:** TECH CITY,(OLD IBM BUILDING)  
**Total Distance:** 47.4  
**Run Number:** 2  
**Pipe Size:** 42 INCH

**Asset ID:**  
**Start MH Number:** NONE  
**End MH Number:** NONE  
**Direction Of Survey:** Downstream  
**Pipe Material:** Concrete Segments (unbolted)

Severity
Light
Moderate
Average
Heavy
Severe



# Videos Created for Session ERM

[NONE-NONE-03232009-113049AM-D.mpg](#)


**PIPELINE OBSERVATION SYSTEM MANAGEMENT**
**Project**

<b>Project Name</b>	ERM	<b>Location</b>	TECH CITY,(OLD IBM BUILDING)
<b>Date</b>	3/23/2009 12:50:44 PM	<b>Direction Of Survey</b>	Upstream
<b>City</b>	KINGSTON, NY	<b>PO Number</b>	NN-2244248
<b>Run Number</b>	3	<b>Purpose</b>	Infiltration/Inflow Investigation
<b>Operator Name</b>	FORREST WALLACE	<b>Completed</b>	Yes
<b>Comments</b>			

**Pipe**

<b>Asset ID</b>		<b>Pipe Size</b>	42 INCH
<b>Pipe Material</b>	Concrete Segments (unbolted)	<b>Pipe Shape</b>	Circular
<b>Lining Method</b>	Other	<b>Total Length</b>	
<b>Length Surveyed</b>	70.6	<b>Year Laid</b>	0000
<b>Year Renewed</b>	0000	<b>Sewer Use</b>	Stormwater

**Manhole**

<b>Start MH Number</b>	NONE	<b>Start MH Depth</b>	14.3 FEET
<b>Start MH Location</b>	BUILDING 25 PARKING LOT.	<b>Start MH Notes</b>	LITE FLOW, WITH BASIN IN BOTTOM
<b>End MH Number</b>	NONE	<b>End MH Depth</b>	UNKNOWN
<b>End MH Location</b>	END OF BANK OF AMERICA BUILDING	<b>End MH Notes</b>	
<b>Amount of Flow</b>	LITE	<b>Signs Of Surcharge</b>	No

**Other**

<b>Media Number</b>	DVD CLEAN HARBORS ENVIRONMENTAL SERVICES INC., INDUSTRIAL SERVICES DIVISION	<b>Truck Number</b>	8748
<b>Contractor Name</b>		<b>Weather</b>	Dry
<b>VCR Start Index</b>		<b>VCR End Index</b>	

**Project Name: ERM**

Date: 3/23/2009 12:50:44 PM

Location: TECH CITY,(OLD IBM BUILDING) Start MH Number: NONE

Total Distance: 70.6




End MH Number: NONE


Run Number: 3

Direction Of Survey: Upstream

Footage	Fault Observation	Time	Picture
3.0	<b>Start Inspection</b> Severity: None Value 2nd Dimension: 0 Value Percent: 0 Comments: CAMERA LENSE FOGGY	01:11	<p>NONE 3/23/2009 TO ERM NONE 12:50</p> <p>Start Inspection FT 3.0 FPM 0</p>
12.9	<b>INFILTRATION AT SEAM</b> Severity: None Value 2nd Dimension: 0 Value Percent: 0	02:07	<p>NONE 3/23/2009 TO ERM NONE 12:50</p> <p>INFILTRATION AT SEAM FT 12.0 FPM 0</p>



25.0	<b>INFILTRATION AT SEAM</b> <b>Severity: None</b> <b>Value 2nd Dimension: 0</b> <b>Value Percent: 0</b>	03:14	 <p>NONE 8/23/2009 TO 03M NONE 18:00</p> <p>INFILTRATION AT SEAM FT 25.0 FPM 0</p>
29.3	<b>INFILTRATION AT SEAM</b> <b>Severity: None</b> <b>Value 2nd Dimension: 0</b> <b>Value Percent: 0</b>	04:52	 <p>NONE 8/23/2009 TO 03M NONE 18:00</p> <p>INFILTRATION AT SEAM FT 29.3 FPM 0</p>
48.4	<b>INFILTRATIO AND BUILD UP AT SEAM</b> <b>Severity: Moderate</b> <b>Value 2nd Dimension: 0</b> <b>Value Percent: 0</b>	06:11	 <p>NONE 8/23/2009 TO 03M NONE 18:00</p> <p>INFILTRATIO AND BUILD UP AT SEAM FT 48.4 FPM 0</p>

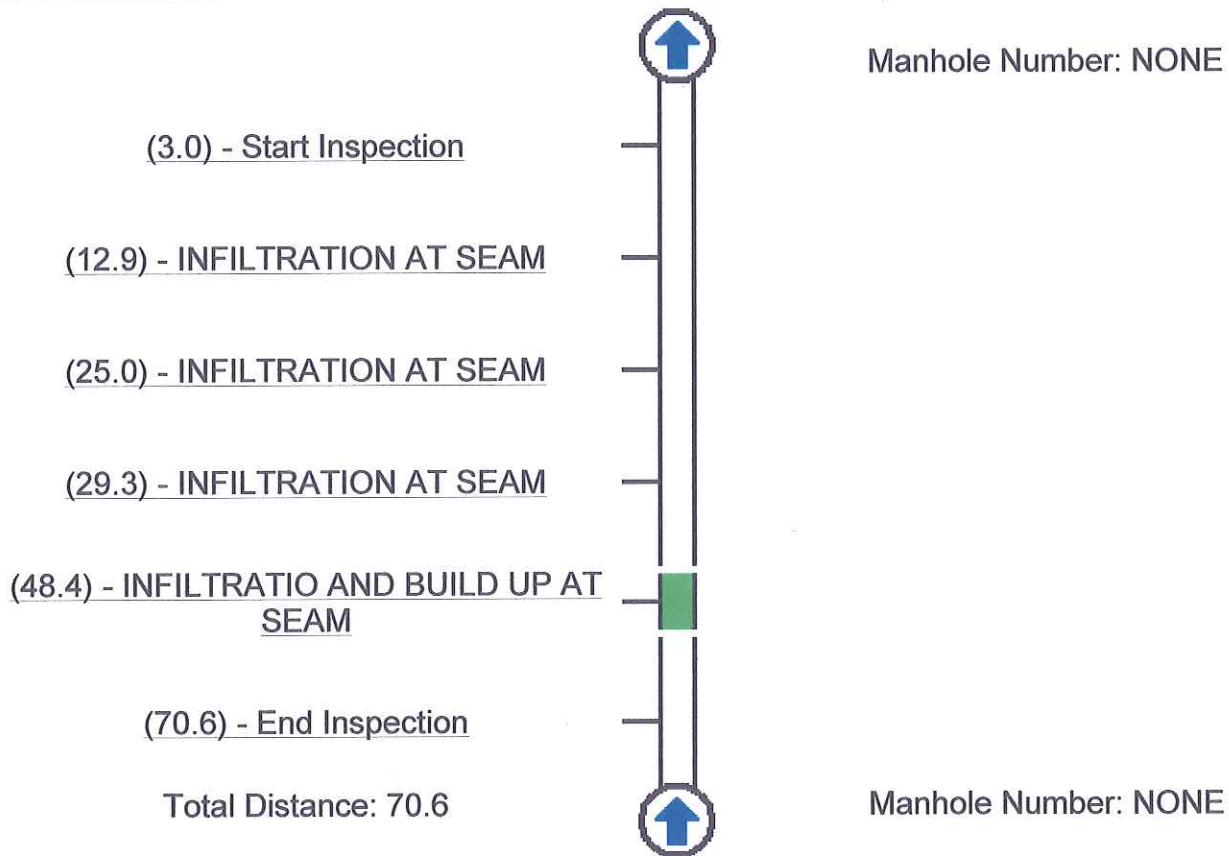
70.6	<b>End Inspection</b> <b>Severity: None</b> <b>Value 2nd Dimension: 0</b> <b>Value Percent: 0</b> <b>Comments: SAND AND</b> <b>DEBRIS</b>	12:54	 <p>NONE 3/23/2009</p> <p>70 CPM</p> <p>NONE 18:50</p> <p>End Inspection FT 70.6</p> <p>CPM 0</p>
------	--	-------	---

# Project Name: ERM

**Date:** 3/23/2009 12:50:44 PM  
**Location:** TECH CITY,(OLD IBM BUILDING)  
**Total Distance:** 70.6  
**Run Number:** 3  
**Pipe Size:** 42 INCH

**Asset ID:**  
**Start MH Number:** NONE  
**End MH Number:** NONE  
**Direction Of Survey:** Upstream  
**Pipe Material:** Concrete Segments (unbolted)

Severity
Light
Moderate
Average
Heavy
Severe





# Videos Created for Session ERM

NONE-NONE-03232009-005702PM-U.mpg



**Project**

<b>Project Name</b>	ERM	<b>Location</b>	TECH CITY,(OLD IBM BUILDING)
<b>Date</b>	3/23/2009 1:18:12 PM	<b>Direction Of Survey</b>	Downstream
<b>City</b>	KINGSTON, NY	<b>PO Number</b>	NN-2244248
<b>Run Number</b>	4	<b>Purpose</b>	Infiltration/Inflow Investigation
<b>Operator Name</b>	FORREST WALLACE	<b>Completed</b>	Yes
<b>Comments</b>	ALL SEAMS LEAKING, AND LOOKS LIKE TOP OF PIPE IS CRACKED.		

**Pipe**

<b>Asset ID</b>		<b>Pipe Size</b>	42 INCH
<b>Pipe Material</b>	Concrete Segments (unbolted)	<b>Pipe Shape</b>	Circular
<b>Lining Method</b>	Other	<b>Total Length</b>	
<b>Length Surveyed</b>	180.2	<b>Year Laid</b>	0000
<b>Year Renewed</b>	0000	<b>Sewer Use</b>	Stormwater

**Manhole**

<b>Start MH Number</b>	NONE	<b>Start MH Depth</b>	14.3 FEET
<b>Start MH Location</b>	BUILDING 25 PARKING LOT.	<b>Start MH Notes</b>	LITE FLOW, WITH BASIN IN BOTTOM
<b>End MH Number</b>	NONE	<b>End MH Depth</b>	UNKNOWN
<b>End MH Location</b>	END OF BANK OF AMERICA BUILDING	<b>End MH Notes</b>	
<b>Amount of Flow</b>	LITE	<b>Signs Of Surcharge</b>	No

**Other**

<b>Media Number</b>	DVD	<b>Truck Number</b>	8748
<b>Contractor Name</b>	CLEAN HARBORS ENVIRONMENTAL SERVICES INC., INDUSTRIAL SERVICES DIVISION	<b>Weather</b>	Dry
<b>VCR Start Index</b>		<b>VCR End Index</b>	



PIPELINE OBSERVATION SYSTEM MANAGEMENT

**Project**

<b>Project Name</b>	ERM	<b>Location</b>	TECH CITY,(OLD IBM BUILDING)
<b>Date</b>	3/23/2009 2:47:20 PM	<b>Direction Of Survey</b>	Downstream
<b>City</b>	KINGSTON, NY	<b>PO Number</b>	NN-2244248
<b>Run Number</b>	5	<b>Purpose</b>	Infiltration/Inflow Investigation
<b>Operator Name</b>	FORREST WALLACE	<b>Completed</b>	Yes
<b>Comments</b>	CAMERA FOGGY, MOST SEAMS WEEPY,AND CRACKS ACROSS TOP.		

**Pipe**

<b>Asset ID</b>		<b>Pipe Size</b>	42 INCH
<b>Pipe Material</b>	Concrete Segments (unbolted)	<b>Pipe Shape</b>	Circular
<b>Lining Method</b>	Other	<b>Total Length</b>	
<b>Length Surveyed</b>	148.0	<b>Year Laid</b>	0000
<b>Year Renewed</b>	0000	<b>Sewer Use</b>	Stormwater

**Manhole**

<b>Start MH Number</b>	NONE	<b>Start MH Depth</b>	14.3 FEET
<b>Start MH Location</b>	BUILDING 25 PARKING LOT.	<b>Start MH Notes</b>	LITE FLOW, WITH BASIN IN BOTTOM
<b>End MH Number</b>	NONE	<b>End MH Depth</b>	UNKNOWN
<b>End MH Location</b>	END OF BANK OF AMERICA BUILDING	<b>End MH Notes</b>	
<b>Amount of Flow</b>	LITE	<b>Signs Of Surcharge</b>	No

**Other**

<b>Media Number</b>	DVD	<b>Truck Number</b>	8748
<b>Contractor Name</b>	CLEAN HARBORS ENVIRONMENTAL SERVICES INC., INDUSTRIAL SERVICES DIVISION	<b>Weather</b>	Dry
<b>VCR Start Index</b>		<b>VCR End Index</b>	

**Project Name: ERM**

Date: 3/23/2009 2:47:20 PM

Location: TECH CITY,(OLD IBM BUILDING) Start MH Number: NONE


Total Distance: 148

End MH Number: NONE

Run Number: 5

Direction Of Survey: Downstream

Footage	Fault Observation	Time	Picture
3.0	Start Inspection Severity: None	29	<p>NONE 3/23/2009 TO ERM NONE 14:48</p> <p>Start Inspection FT 3.0 FFM 0</p>
148.0	sand and debris Severity: None Value Percent: 0	06:46	<p>NONE 3/23/2009 TO ERM NONE 14:54</p> <p>sand and debris FT 148.0 FFM 0</p>

<p>148.0</p>	<p><b>End Inspection Severity: None Comments: SAND AND DEBRIS.</b></p>	<p>08:25</p>	
--------------	--	--------------	--



# Project Name: ERM

**Date:** 3/23/2009 2:47:20 PM

**Location:** TECH CITY,(OLD IBM BUILDING)

**Total Distance:** 148

**Run Number:** 5

**Pipe Size:** 42 INCH

**Asset ID:**

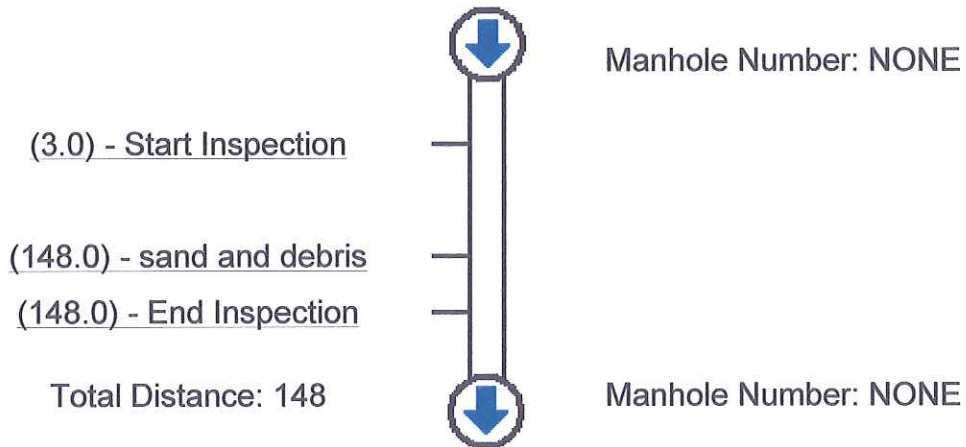
**Start MH Number:** NONE

**End MH Number:** NONE

**Direction Of Survey:** Downstream

**Pipe Material:** Concrete Segments (unbolted)

Severity
Light
Moderate
Average
Heavy
Severe



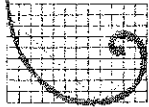
# Videos Created for Session ERM

NONE-NONE-03232009--030351PM-D.mpg

*APPENDIX B*

*Boring Logs*





# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

SG-03

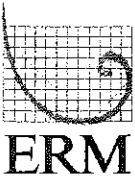
# ERM

## BORING LOG

Parcel - 1

Project Name & Location <u>TechCity, Kingston, NY</u>		Project Number <u>0076812</u>	Date & Time Started: <u>3/5/09</u>	Date & Time Completed: <u>3/5/09 1125</u>
Drilling Company <u>Parrott Wolfe</u>		Foreman <u>Layne Beck</u>	Sampler(s) <u>Deep Throat</u>	Sampler Hammer <u>140lb</u>
Drilling Equipment <u>CME 75</u>		Method <u>Direct Push/Hammer</u>	Elevation & Datum <u>10.8'</u>	Drop <u>30"</u>
Bit Size(s) <u>3" OD</u>		Core Barrel(s) <u>0.11' x 2'</u>	Geologist(s) <u>J. Elder, S. Schuchert</u>	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: <u>NE Corner Enterprise Drive 3202</u>				SURFACE DESCRIPTION: <u>Grass, Partially Frozen</u>	
0		↑	0.0	4	<u>Brown silt, little fine sand</u>	<u>Frozen</u>
1030		↓	1.8	3	<u>↓</u>	<u>Moist, no odors</u>
		↓	0.0	7	<u>Brown gray, CLAY</u>	<u>Moist, no odors</u>
		↓	0.0	6	<u>↓</u>	<u>↓</u>
2		↓	0.0	7	<u>Grey CLAY w/ Red Mottling</u>	<u>Moist, no odors</u>
		↓	1.6	8	<u>↓</u>	<u>no odors</u>
1035		↓	0.0	12	<u>Grey CLAY w/ Red Mottling</u>	<u>Dry, very hard</u>
		↓	0.0	11	<u>↓</u>	<u>no odors</u>
4		↑	0.0	9	<u>Grey CLAY w/ Abundant Red Mottling</u>	<u>Moist, no odors</u>
		↓	1.9	10	<u>↓</u>	<u>↓</u>
1045		↓	0.0	11	<u>Brown CLAY w/ occ. lens</u>	<u>Moist, no odors</u>
		↓	0.0	13	<u>Grey clay</u>	<u>↓</u>
6		↑	0.0	8	<u>Brown CLAY</u>	<u>Moist, no odors</u>
		↓	2.0	9	<u>↓</u>	<u>↓</u>
1050		↓	0.0	10	<u>Brown red CLAY</u>	<u>Moist, no odors</u>
		↓	0.0	10	<u>↓</u>	<u>↓</u>
8		↓	0.0	10	<u>↓</u>	<u>↓</u>



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

5G-03

## BORING LOG

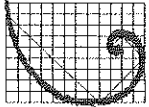
Parcel 1

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8'		↑	0.0	10	Brown red CLAY	Moist, no odors
9'		2.0'	0.0	10	↓	↓
		↓	0.0	7		
10'		↓	0.0	5	Brown fine SAND, some silt	Saturated, no odors no sheen
		↑	0.0	10	Brown fine SAND, and silt	moist
11'		1.1'	0.0	50/0.3	Reddish CLAY to Dark brown CLAY	no odor
		↓			10.8' Bedrock - EOB	
12'		↓			5.0' 0.01 slotted Screen	
					7.0' MC riser 1" diameter	
					Backfilled w/ filter sand	
13'						
14'						
15'						
16'						

Page 2 of 2

Signature:

Date: 3/5/09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

SG-01

# ERM

## BORING LOG

Parcel 1

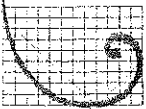
Project Name & Location <b>TechCity - Kingston, NY</b>		Project Number <b>0096812</b>	Date & Time Started: <b>3/5/09</b>	<b>3/5/09</b>
Drilling Company <b>Varral Wolf</b>		Foreman <b>Layne Peck</b>	Date & Time Completed: <b>0930</b>	<b>1010</b>
Drilling Equipment <b>CME 75</b>		Method <b>SPLIT Spoon / Hammer</b>	Sampler(s) <b>Doug Thoma</b>	Sampler Hammer <b>140 lb</b>
Bit Size(s) <b>0.11" x 2.0"</b>		Core Barrel(s) <b>0.11" x 2.0"</b>	Elevation & Datum	Completion Depth <b>8.0'</b>
Drop <b>30"</b>		Rock Depth <b>None</b>		Geologist(s) <b>J. Elder, S. Schert</b>

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: <b>SE Corner</b>				SURFACE DESCRIPTION: <b>Grass, partially frozen</b>	
0		↑	0.0	2- <del>3</del>	<b>Brown red fine SAND, little silt</b>	<b>Frozen 2"</b>
0930	1	1.8'	0.0	2	<b>silt</b>	<b>Moist, no odors</b>
		↓	0.0	5-4	<b>Brown red fine SAND, little silt</b>	<b>Moist, no odors</b>
2		↓	0.0	4	<b>Red brown fine SAND</b>	<b>Dry, no odors</b>
		↑	0.0	4	<b>Red brown fine SAND, trace silt</b>	<b>Dry to Moist, no odors</b>
0935	3	2.0'	0.0	4	<b>silt</b>	<b>Red mottling</b>
		↓	0.0	5	<b>Gray fine SAND, trace silt</b>	<b>Moist, no odors</b>
4		↓	0.0	5	<b>Cracking to Gray brown SAND trace silt</b>	<b>Moist, no odors</b>
		↑	0.0	3	<b>Gray fine SAND, trace silt</b>	<b>Moist, no odors</b>
0940	5	1.6'	0.0	4	<b>w/ brown mottling</b>	
		↓	0.0	4		
		↓	0.0	6		
6		↑	0.0	2	<b>Brown fine SAND, trace silt</b>	<b>Moist, no odors</b>
0945	7	1.6'	0.0	2	<b>Brown fine SAND, trace silt</b>	<b>Saturated, no sheen</b>
		↓	0.0	2		<b>no odors</b>
8		↓	0.0	3		

Page 1 of 1 EOB, Signature:

Date: 3/5/09

Set 5.0' screen (8.0-3.0) at 8.0'  
 u.0' riser screen (3.0-1.0) 1" PVC Sch. 40 0.06 slot screen above grade



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

SA-04

# ERM

## BORING LOG

Parcel 4A

Project Name & Location Tech City Kingston, NY		Project Number 0096812	Date & Time Started: 3/5/09	Date & Time Completed: 3/5/09 11:40
Drilling Company Parrott Wolf	Foreman Layne Koch	Sampler(s) Doug Thomas	Sampler Hammer 140 lb	Drop 30"
Drilling Equipment CME 75	Method Split Spoon	Elevation & Datum	Completion Depth 8.0'	Rock Depth None
Bit Size(s) 3" OD	Core Barrel(s) 0.11' x 2'	Geologist(s) J. Elder, S. Schuchert		

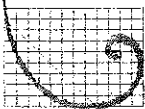
DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION: Southern Tip Island				SURFACE DESCRIPTION: Grass, P. frozen	
0		↑	0.0	1	Brown fine SAND, little	Moist, no odors
1140 1		1.2	0.0	1	Silt, trace organic matter	
		↓	0.0	3		
2		↓	0.0	6	last 2" Coarse <sup>gray</sup> GRAVEL	Dry, no odors
		↑	0.0	24	Gray Coarse GRAVEL	Dry, no odors
1145 3		1.4	0.0	8	Dark Brown SAND, some	Moist, No odors
		↓	0.0	7	Silt, trace brown mottling	
4		↓	0.0	8		
		↑	0.0	4	Dark brown SAND, some	Moist to very wet
1150 5		0.7	0.0	4	Silt, light brown mottling	no odors
		↓	0.0	4	1" Black charred wood	Very wet, no odors
6		↓	0.0	2	2" Dark brown SILT, trace fine	Sand, very wet, no odors
		↑	0.0	1	1" Dark brown SILT, trace fine	Sand, Sat., no odors no shear
1155 7		0.9	0.0	1	Gray fine SAND, and	Sat. no odors, no shear
		↓	0.0	1	Silt, trace unburned wood	
8		↓	0.0	3	chips	

Page 1 of 1

Signature: *[Signature]*

Date: 3/5/09

Screen 3' to 8' 0.01 silt  
Riser 3' to 1' above grade 1" PVC



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

SG-03

# ERM

## BORING LOG

Parcel 4A

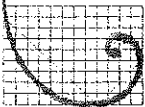
Project Name & Location <b>TechCity, Kingston</b>		Project Number <b>009681 Z</b>	Date & Time Started: <b>3/5/09 11:51 AM</b>
Drilling Company <b>Parratt Wolf</b>		Coreman <b>Layne Dech</b>	Date & Time Completed: <b>1/325 1355</b>
Drilling Equipment <b>CME 75</b>		Method <b>Split Spoon</b>	Sampler(s) <b>140 lb</b>
Bit Size(s) <b>3" OD</b>		Core Barrel(s) <b>0.11' ID x 2.0'</b>	Sampler Hammer <b>30"</b>
		Elevation & Datum	Completion Depth <b>8.0'</b>
			Rock Depth <b>None</b>
		Geologist(s) <b>J. Elder, S. Schwert</b>	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: <b>North of Building 5N</b>				SURFACE DESCRIPTION: <b>Asphalt</b>	
0					<b>Pulverized asphalt, Dark Gray</b>	<b>Dry, No Odor</b>
1						
2					<b>1" Dark Brown fine-medium SAND</b>	<b>Moist, No Odors</b>
3					<b>SAND, trace silt</b>	
4						<b>Last 1" Wet, no odors no shear</b>
					<b>Dark Brown fine-medium</b>	<b>Saturated, no shear</b>
5					<b>SAND, trace silt</b>	<b>no odors</b>
6						
					<b>Brown fine-medium</b>	<b>Saturated, No Odors</b>
7					<b>SAND, trace silt</b>	<b>No Shear</b>
8					<b>Dark Brown SILT, some organic matter (Peat)</b>	<b>Sat., No Odors, No Shear</b>

Page 1 of 1 Signature: [Signature]

Date: 3/5/09

8.0'-3.0' 0.01 slot PUC Screen  
3.0' to 1.0' above grade 1" Risers



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

MJ-18

# ERM

## BORING LOG

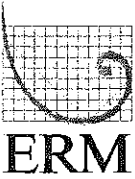
Parcel 1

Project Name & Location <b>TechCity, Kingston, NY</b>		Project Number <b>0096812</b>		Date & Time Started <b>3/5/09 5:51:07</b>	
Drilling Company <b>Parrott Wolf</b>		Foreman <b>Layne Peck</b>		Date & Time Completed <b>1415 1715</b>	
Drilling Equipment <b>CME 75</b>		Method <b>split spoon / HSA</b>		Sampler(s) <b>Doug Thomas</b>	
Bit Size(s) <b>3" OD</b>		Core Barrel(s) <b>5' x 8 1/2"</b>		Sampler Hammer <b>140 lb</b>	
				Drop <b>30"</b>	
				Elevation & Datum	
				Completion Depth <b>9.0'</b>	
				Rock Depth <b>None</b>	
				Geologist(s) <b>J. Elder, S. Schuchart</b>	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION: <b>BoA P. Lot Bet. Mt 7; 9</b>				SURFACE DESCRIPTION: <b>Asphalt</b>	
0		↑	0.0	4	Asphalt - Removed w/ Hammer	Dry
1415	1	1.1 ↓	0.0	7	Red brown medium SAND	Moist, No Odors
		↓	0.0	6	↳	↳
1420	2	↓	0.0	6	↳	↳
		↑	0.0	7	Red brown medium SAND	Moist, No Odor
1425	3	1.3 ↓	0.0	7	↳	↳
		↓	0.0	4	↳	↳
1430	4	↓	0.0	5	↳	↳
		↑	0.0	6	Brown medium-fine SAND	Moist, No Odor
	5	1.7 ↓	0.0	6	Red brown mottling	↳
		↓	0.0	3	↳	↳
	6	↓	0.0	4	↳	↳
		↑	0.0	5	Brown medium-fine SAND	Moist, No Odor
	7	1.7 ↓	0.0	3	Dark <sup>red</sup> Brown Mottling	↳
		↓	0.0	2	↳	↳
8		↓	0.0	2	↳	Wet, no sheen, no odor

Signature: J.M.S.

Date: 3/5/09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

MW-18

## BORING LOG

Parcel 1

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↑	0.0	2	Brown medium-fine SAND	Saturated, No odor
9		2.0	0.0	2	↓	No Sheen
		↓	0.0	2	Brown red silty CLAY	Saturated, No Sheen
10		↓	0.0	4	Gray CLAY	No Odors
					EOB at 10.0'	
11					Screen 4'-9" - 2" 0.01 slot s.w. 40	
					Riser 2" Riser	
12				1500	Begin installing well w/ HSA	
				1715	Finish MW-18	
13						
14						
15						
16						

Page 2 of 2

Signature: [Signature]

Date: 3/5/09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

ERM-B1

## ERM

### BORING LOG

HW-21

Parcel-1

Project Name & Location <b>Tech City, Kingston, NY</b>		Project Number <b>0096B12</b>	Date & Time Started: <b>3.9.09 1240</b>
Drilling Company <b>Parrott Wolff</b>		Foreman <b>Layne Pech</b>	Date & Time Completed: <b>3.6.09 1345</b>
Drilling Equipment <b>CME 75</b>	Method <b>Direct Push/HSA</b>	Sampler(s) <b>Dong Thoma</b>	Sampler Hammer <b>140 lb</b>
Bit Size(s)	Core Barrel(s)	Elevation & Datum <b>20'</b>	Completion Depth <b>30'</b>
		Geologist(s) <b>JE, SS</b>	Rock Depth <b>None</b>

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: <b>SE Corner, Parcel</b>					SURFACE DESCRIPTION: <b>GRASS</b>	
0		↑	0.0	0	<b>Brown SILT, trace fine Sand</b>	<b>No sheen some roots</b>
1		↑	0.0	1		
		1.4	0.0	3	↓	↓
2		↓	0.0	7		
		↑	0.0	9	<b>Brown SILT, trace fine Sand</b>	<b>Moist, no odors</b>
3		1.9	0.0	8		
		↓	0.0	8	<b>Red Brown fine to medium sand, some silt</b>	↓
4		↓	0.0	7		
		↑	0.0	5	<b>Red Brown fine to medium SAND, little silt</b>	<b>Moist, no odors</b>
5		1.3	0.0	6		
		↓	0.0	6	↓	↓
6		↓	0.0	8		
		↑	0.0	4	<b>Red Brown fine SAND, trace silt</b>	<b>Moist, no odors</b>
7		1.6	0.0	4		
		↓	0.0	4	↓	↓
8		↓	0.0	6		

Signature:

Date: 3.6.09

3/9/09





# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

ERM-B1

## BORING LOG

MW-21  
Parcel 1

1310

1315

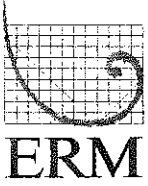
1325

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8		↑	0.0	4	Gray Brown fine SAND	Moist, no odors
		1.3	0.0	4	↓	↓
9		↓	0.0	3	Red Brown fine SAND	↓
		↓	0.0	4	Red and Dark Brown zone	Moist, no odors
10		↓	0.0	1	4" thick at 10.5' →	Wet, no sheen, no odors
		1.8	0.0	1	Red Brown fine SAND, trace silt	Gray fine SAND, trace silt
		↓	0.0	1	Red Brown silt, little clay	Wet, no sheen, no odors
		↓	0.0	2	Red Brown fine SAND, little silt (no silt last 2')	
12		↑	0.0	1	Red Brown fine SAND,	Wet, no sheen,
		1.9	0.0	1	trace silt	no odors
13		↓	0.0	1	↓	↓
		↓	0.0	1	↓	↓
14		↓	0.0	0	Dark Brown fine SAND	Wet, no sheen, no odors
		1.2	0.0	0	Dark Brown fine SAND, some silt	
15		↓	0.0	1	Red Brown fine SAND, little silt	
		↓	0.0	1	Gray CLAY	↓

Page 2 of 3

Signature: [Signature]

Date: 3.6.09  
3/9/09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

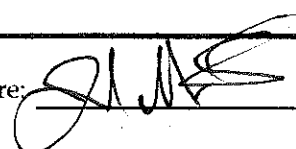
ERM-B1

## BORING LOG

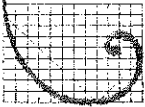
MW-21

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
16		↑	0.0	0	Red Brown fine SAND, little silt	Wet, no odors
1335 17		1.4	0.0	1	Gray fine SAND, trace silt	↓
		↓	0.0	1	Red Gray CLAY	
18		↓	0.0	1	Last 3" Gray CLAY	↓
		↑	0.0	0	Gray CLAY	
19		1.2	0.0	0	↓	Wet, no sheen, no odors
		↓	0.0	1		
20		↓	0.0	2	↓	↓
				(EoB)		
1345 21					Set Screen 8"-18" 0.01	Slot Screen
					8"-0.5 Screen	
					18"-7" Sand	
22					7"-5" Bentonite chips - hydrated	
					0 = Weight of Hammer	
23						
24						

Page 3 of 3

Signature: 

Date: 3/9/09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

MM-20

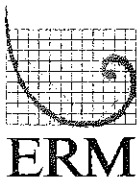
# ERM

## BORING LOG

Parcel - 1

Project Name & Location <b>Tech City, Kingston, NY</b>		Project Number <b>0096812</b>	Date & Time Started: <b>3/6/09 0745</b>
Drilling Company <b>Parnell Wolf</b>		Foreman <b>Layne Pech</b>	Date & Time Completed: <b>3.6.09 1130</b>
Drilling Equipment <b>CME 75</b>		Method <b>Direct Push / HSA</b>	Sampler(s) <b>Doug Thoma</b>
Bit Size(s) <b>3" OD 8 1/2" OD</b>		Corp Barrel(s) <b>4' 1/4 x 5' 0.11" x 2'</b>	Sampler Hammer <b>141016</b>
			Drop <b>30"</b>
			Elevation & Datum <b>28.0</b>
			Completion Depth <b>None</b>
			Rock Depth <b>None</b>
			Geologist(s) <b>J. Elder, S. Schuchert</b>

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION: <b>SE Corner of Parcel 1</b>				SURFACE DESCRIPTION: <b>Grass</b>	
0		↑	0.0		<b>Brown fine sand little silt</b>	<b>frozen</b>
1		↓	0.0			<b>no odor</b>
		1.2 ↓	0.0			
2		↓	0.0			
		↑	0.0		<b>no recovery</b>	
3		↓	0.0			
		↓	0.0			
4		↓	0.0			
		↑	0.0		<b>Brown fine Sand, trace</b>	<b>dry</b>
5		↓	0.0		<b>Silt</b>	<b>no odor</b>
		1.5 ↓	0.0			
6		↓	0.0			
		↑	0.0		<b>Brown fine Sand, some</b>	<b>dry</b>
7		1.7 ↓	0.0		<b>mottling.</b>	<b>no odor</b>
		↓	0.0			
8		↓	0.0			



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

## BORING LOG

Boring Number

MW-2D

Parcel 1

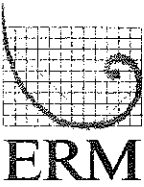
DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
8	↑	0.0			light Brown fine Sand w/	dry
9	1.2	0.6			gray mottling	no odor
10	↓	0.0			red Brown fine Sand	
11	↑	0.0			Brown fine Sand w/ black	
11	1.3	0.0			mottling	wet
12	↓	0.0			Brown fine sand w/ little silt	no odor no sheen
12	↓	0.0			red mottling - Dark brown fine sand (last 1")	
13	↑	0.0			Brown fine SAND w/ trace	Wet, no odor,
13	1.8	0.0			Silt- Red Mottling at 12.5'(1")	no sheen
14	↓	0.0			Brown fine SAND w/ little	wet, no odor
14	↓	0.0			Silt	no sheen
15	↑	0.0			Dark Brown fine SAND	Wet, no odor
15	1.0	0.0			trace silt	no sheen
16	↓	0.0			1" Red Mottling at 15.0'	
16	↓	0.0			Dark Brown fine SAND trace silt	

Page 2 of 4

Signature: JMB

Date:

3.6.09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

## BORING LOG

Boring Number

MW-20

Parcel 1

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
16		↑	0.0		Dark Brown fine SAND	Wet, No Sheen
		1.9	0.0		trace silt	No Odors
17		↓	0.0		Brown fine SAND, trace	↓
		↓	0.0		Silt	↓
18		↑	0.0		Brown fine SAND, little	Wet, No Sheen
		1.7	0.0		Silt	No Odors
19		↓	0.0		↓	↓
		↓	0.0		last 5" Gray SILT	↓
20		↑	0.0		Gray SILT	Wet, No Odors
		1.4	0.0		3" Red Brown CLAY	No Sheen
21		↓	0.0		2" Red fine SAND	↓
		↓	0.0		Brown fine SAND, little Silt	↓
22		↑	0.0		Brown fine SAND, little	Wet, No Odors
		1.1	0.0		Silt	No Sheen
23		↓	0.0		Red fine SAND (1") at 23.5'	
		↓	0.0			
24		↓	0.0			

Page 3 of 4

Signature:

Date: 3/6/09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

## BORING LOG

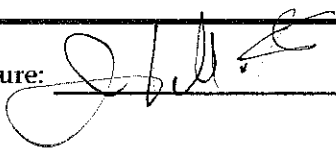
Boring Number

MW-20

Parcel 1

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
24		↑	0.0		Gray CLAY, int Blue Gray 1"	Det, No Oils
25		1.4	0.0		Zones (1/4-1/2")	No Screen
		↓	0.0		(Gray fine SAND Zone (3/4") at 25' ↓	
26		↕	0.0			
		↑			Gray CLAY, int Blue Gray	wet, no odor,
27					1.5-1" zones	no screen
		↓				
28					24-9' Screen	
					2" well	
29						
30						
31						
32						

Page 4 of 4

Signature: 

Date: 3/6/09



ERM

# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

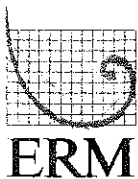
ERM - B2 (MW-22)

## BORING LOG

Parcel - 1

Project Name & Location <b>Tech City, Kingston NY</b>		Project Number <b>0092B12</b>	Date & Time Started: <b>3.30.09 @ 1240</b>
Drilling Company <b>Parrott Wolf</b>		Foreman <b>Layne Pech</b>	Date & Time Completed: <b>3.4.09</b>
Drilling Equipment <b>CME TS</b>		Method <b>Direct</b>	Sampler(s) <b>Doug Thoma</b>
Bit Size(s) <b>4.25 (inside)</b>		Core Barrel(s) <b>9" hole</b>	Sampler Hammer <b>140 lb</b>
			Drop <b>30"</b>
			Completion Depth <b>20'</b>
			Rock Depth <b>None</b>
			Geologist(s) <b>JE, SS</b>

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	PID/PID (ppm)	Blow Counts		
LOCATION: <b>SE corner Parcel-1</b>		SURFACE DESCRIPTION: <b>Grass</b>				
0		↑	0.0		<b>Brown fine SAND - some Silt</b>	<b>dry</b>
1		↓			<b>-organic material present</b>	<b>no odor</b>
2		↓		6	<b>Red brown fine SAND - little Silt</b>	
3		↓			<b>Red brown fine SAND - some Silt</b>	<b>dry</b>
4		↓				<b>no odor</b>
5		↓		9	<b>Red brown fine SAND - little Silt</b>	
6		↓				
7		↓			<b>Light brown fine SAND - trace Silt</b>	<b>dry</b>
8		↓				<b>no odor</b>
9		↓		9	<b>Red brown fine SAND - trace Silt</b>	<b>dry</b>
10		↓				<b>no odor</b>
11		↓		7	<b>Red brown fine SAND - trace Silt w/ Red mottling</b>	



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

B2 / MW-22

## BORING LOG

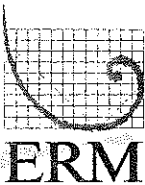
DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FTD/ PID (ppm)	Blow Counts		
8		↑	0.0		Medium brown fine SAND - little Silt	Saturated @ 9'
		1.9		4	w/ red, black mottling (1.25')	no odor
9		↓		4	Light brown fine SAND - some Silt, red mottling	moist
		↓		9	Red brown fine SAND - little Silt, black mottling	no odor
10		↑			Red brown fine SAND - little Silt - black	Saturated
		1.6			mottling	no odor
		↓		7	Brown fine SAND - little Silt - black	mottling
12		↑			Brown fine SAND - trace Silt	Saturated
		.8				no odor
13		↓		4		
14		↑			Brown fine SAND - trace Silt	Saturated
		↓				no odor
15		↓				
16		↓		5	Brown fine Sand - little Silt	

Page 2 of 3

Signature: [Signature]

Date: 3.16.09





# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

## BORING LOG

Boring Number

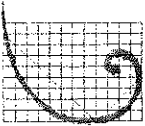
B#2 / MW-22

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
16		↑	0.0		Med brown fine SAND - trace Silt	Saturated no odor
17		1.5				
18		↓		3	Gray Clay (last .5')	saturated no odor
19		↑			Gray Clay	
20		.4				
21		↓			Screen 18' - 8'	
22		↓			10' Screen	
23						
24						

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Signature: M

Date: 3.6.09



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

MW-19

# ERM

## BORING LOG 3/9/09

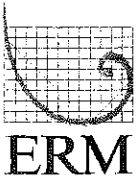
Parcel 2

Project Name & Location <b>Tech City, Kingston, NY</b>		Project Number <b>0096812</b>		Date & Time Started: <b>1310</b>	
Drilling Company <b>Parrott Wolf</b>		Foreman <b>Doug Thomas</b>		Date & Time Completed: <b>1445</b>	
Drilling Equipment <b>CME 75</b>		Method <b>HSA / Split Spoon</b>		Sampler(s) <b>Brian Puzan</b>	
Bit Size(s)		Core Barrel(s)		Sampler Hammer <b>140lb</b>	
				Drop <b>30"</b>	
				Elevation & Datum	
				Completion Depth <b>14.0'</b>	
				Rock Depth <b>None</b>	
				Geologist(s) <b>J. Elder</b>	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION: <b>SE side of Box P. Lot</b>				SURFACE DESCRIPTION: <b>Asphalt</b>	
0		/	/	/	<b>Asphalt (cleaned w/ HSA)</b>	<b>Dry</b>
1		/	/	/	<b>↓</b>	<b>↓</b>
		<b>↑</b>	<b>0.0</b>	<b>5</b>	<b>Brown fine to medium</b>	<b>Moist, No Odors</b>
		<b>0.9</b>	<b>0.0</b>	<b>5</b>	<b>SAND, trace silt</b>	<b>↓</b>
2		<b>↑</b>	<b>0.0</b>	<b>7</b>	<b>Light Brown grading to</b>	<b>Moist, No Odors</b>
		<b>↓</b>	<b>0.0</b>	<b>4</b>	<b>Red Brown fine SAND,</b>	<b>↓</b>
3		<b>1.2</b>	<b>0.0</b>	<b>5</b>	<b>+ trace silt</b>	<b>↓</b>
		<b>↓</b>	<b>0.0</b>	<b>6</b>	<b>Dark Red Mottling at 3.9'</b>	<b>↓</b>
4		<b>↑</b>	<b>0.0</b>	<b>4</b>	<b>Red Brown Grading to</b>	<b>Moist, no odors</b>
		<b>2.0</b>	<b>0.0</b>	<b>3</b>	<b>Gray fine SAND, trace silt</b>	<b>↓</b>
5		<b>↓</b>	<b>0.0</b>	<b>6</b>	<b>Gray fine SAND, little silt</b>	<b>↓</b>
		<b>↓</b>	<b>0.0</b>	<b>6</b>	<b>↓</b>	<b>↓</b>
6		<b>↑</b>	<b>0.0</b>	<b>5</b>	<b>Gray fine SAND, little silt</b>	<b>U. Moist, no odors</b>
		<b>1.5</b>	<b>0.0</b>	<b>6</b>	<b>Red Brown SILT Dark Red Mottling</b>	<b>Wet, no Shear</b>
7		<b>↓</b>	<b>0.0</b>	<b>6</b>	<b>Brown fine SAND, trace</b>	<b>Wet, no odors</b>
		<b>↓</b>	<b>0.0</b>	<b>6</b>	<b>silt</b>	<b>no Shear, no odors</b>
8						

1540

1548



# ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

ML-19

## BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
8		↑	0.0	2	No Recovery	
1355 9		0.0	0.0	3	↓	
		↓	0.0	4		
10		↓	0.0	3	↓	
		↑	0.0	1		Red Brown CLAY
11		0.6	0.0	1	↓	Screen, no odor
		↓	0.0	2		
12		↓	0.0	2	↓	
		↑	0.0	1		Gray CLAY
1620 13		1.2	0.0	1	↓	Screen, no odors
		↓	0.0	1		
14		↓	0.0	1	↓	
						EOB
15						Set Well 10-5' screen
						10-3' sand
16						

Page 2 of 2

Signature: [Signature]

Date: 3/9/09

*APPENDIX C*

*Well Construction Logs*

# ERM

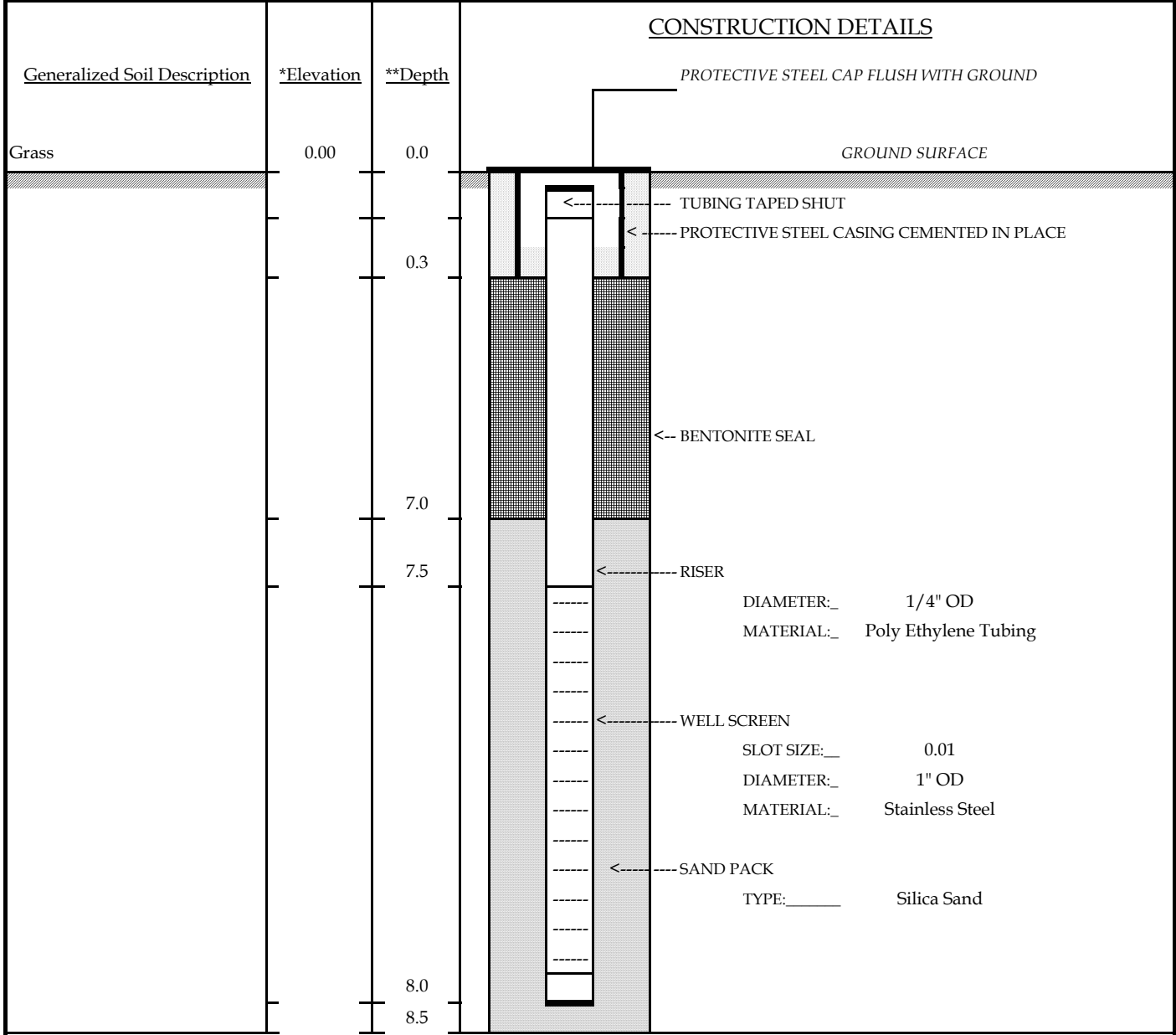
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

WELL : SG-01

Parcel 1

## SOIL VAPOR POINT CONSTRUCTION LOG

Project Name & Location <b>TechCity Kingston, NY</b>		Project No. <b>0096812</b>		Water Level(s) <i>(ft below top of PVC casing)</i>		Site Elevation Datum (feet) NM	
Drilling Company <b>Parratt Wolff</b>		Foreman <b>Doug Thoma</b>		Date	Time	Level (feet)	Ground Elevation (feet) NM
Surveyor		Geologist <b>J. Elder</b>		<b>NA</b>			Top of Protective Steel Cap Elevation (feet) NM
Date and Time of Completion <b>3/5/09 1010</b>							Top of Riser Pipe Elevation (feet) NM



REMARKS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Elevation (feet) above mean sea level unless noted

\*\* Depth in feet below ground surface

# ERM

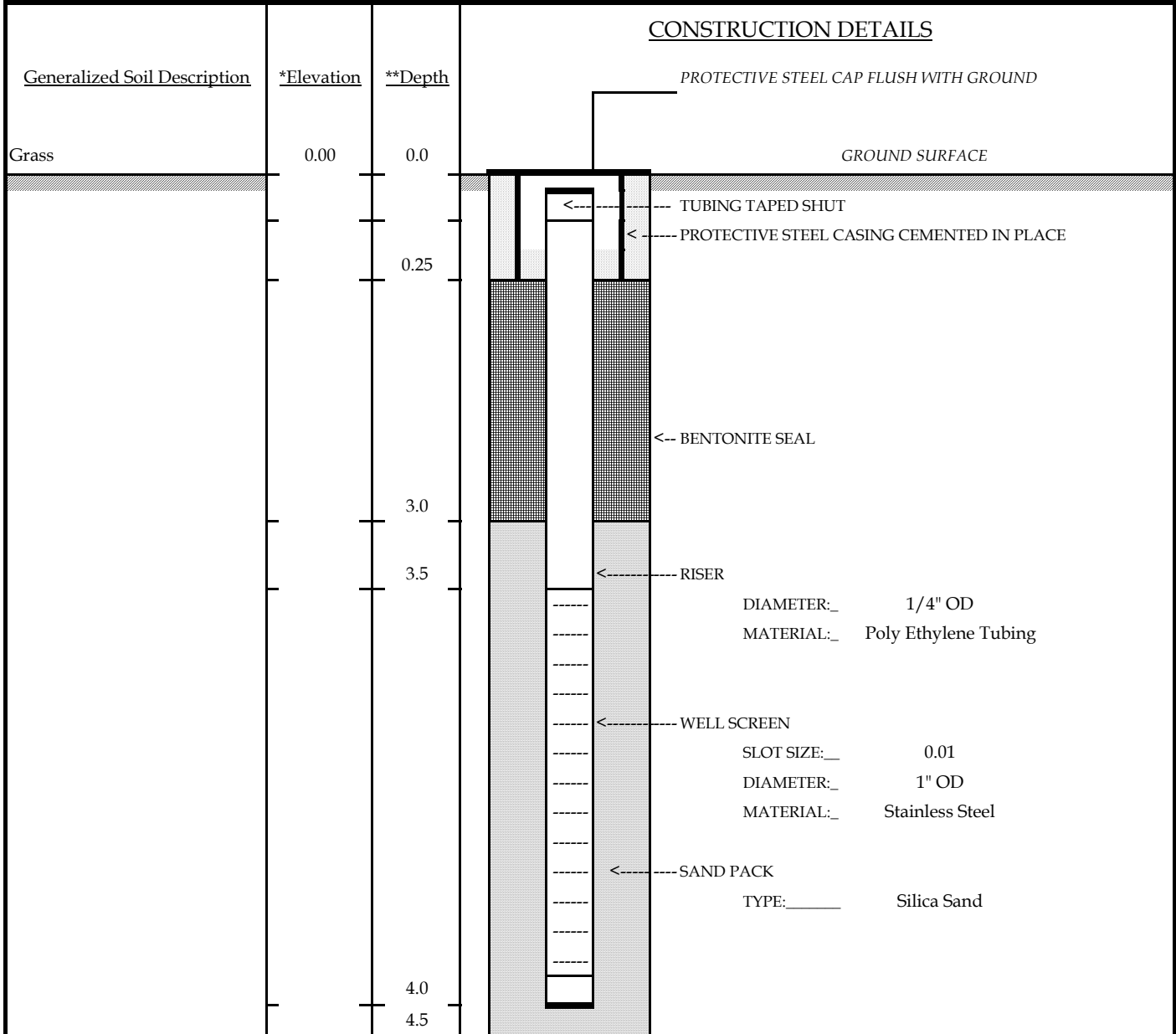
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

WELL : SG-01

Parcel 4A

## SOIL VAPOR POINT CONSTRUCTION LOG

<i>Project Name &amp; Location</i> TechCity Kingston, NY		<i>Project No.</i> 0096812		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i> NM	
<i>Drilling Company</i> Parratt Wolff		<i>Foreman</i> Doug Thoma		<i>Date</i>	<i>Time</i>	<i>Level (feet)</i>	<i>Ground Elevation (feet)</i> NM
<i>Surveyor</i>							<i>Top of Protective Steel Cap Elevation (feet)</i> NM
<i>Date and Time of Completion</i>		<i>Geologist</i> J. Elder					<i>Top of Riser Pipe Elevation (feet)</i> NM



REMARKS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Elevation (feet) above mean sea level unless noted

\*\* Depth in feet below ground surface

# ERM

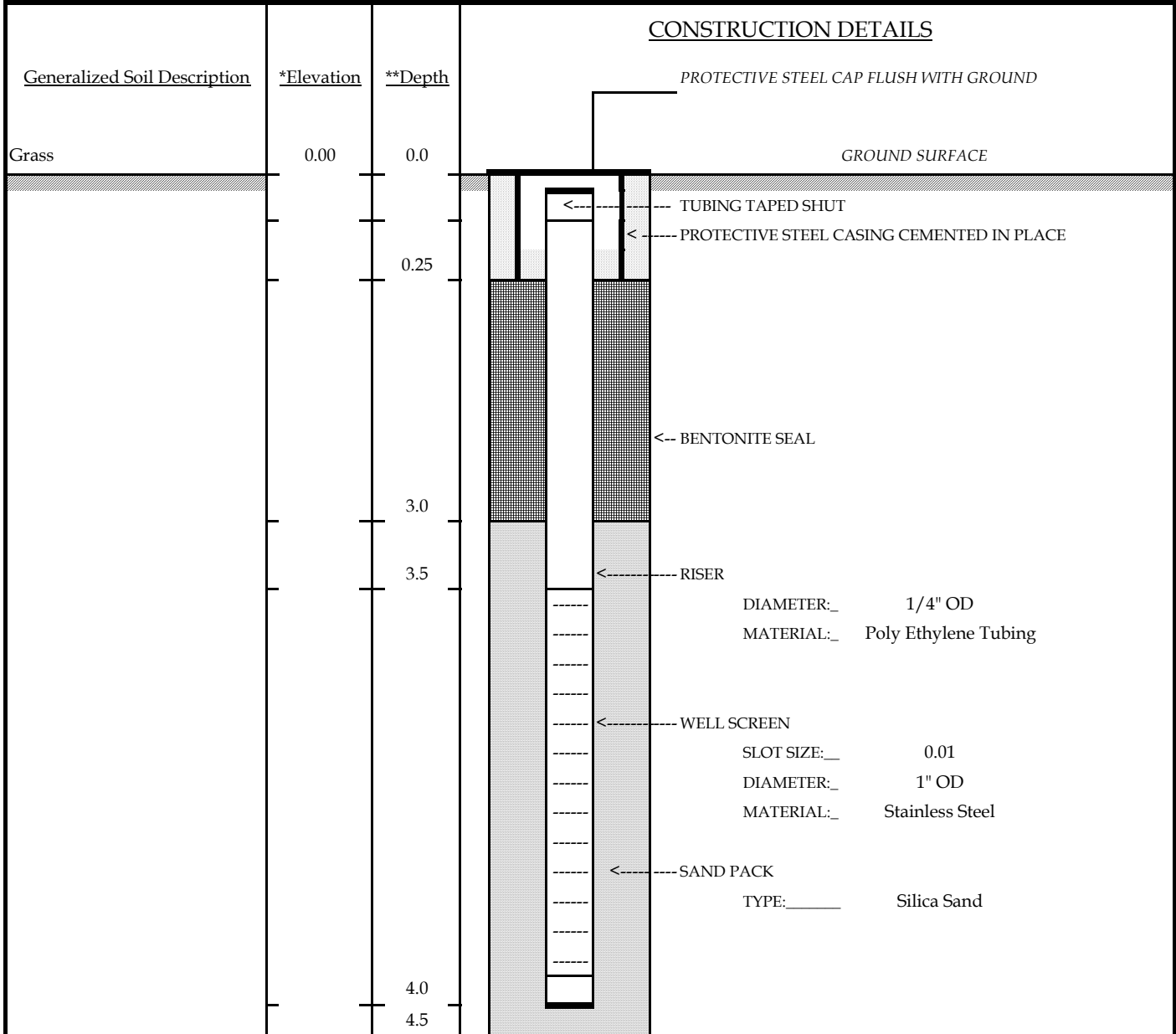
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

WELL : SG-02

Parcel 1

## SOIL VAPOR POINT CONSTRUCTION LOG

<i>Project Name &amp; Location</i> TechCity Kingston, NY		<i>Project No.</i> 0096812		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i> NM	
<i>Drilling Company</i> Parratt Wolff		<i>Foreman</i> Doug Thoma		<i>Date</i>	<i>Time</i>	<i>Level (feet)</i>	<i>Ground Elevation (feet)</i> NM
<i>Surveyor</i>							<i>Top of Protective Steel Cap Elevation (feet)</i> NM
<i>Date and Time of Completion</i>		<i>Geologist</i> J. Elder					<i>Top of Riser Pipe Elevation (feet)</i> NM



REMARKS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Elevation (feet) above mean sea level unless noted

\*\* Depth in feet below ground surface

# ERM

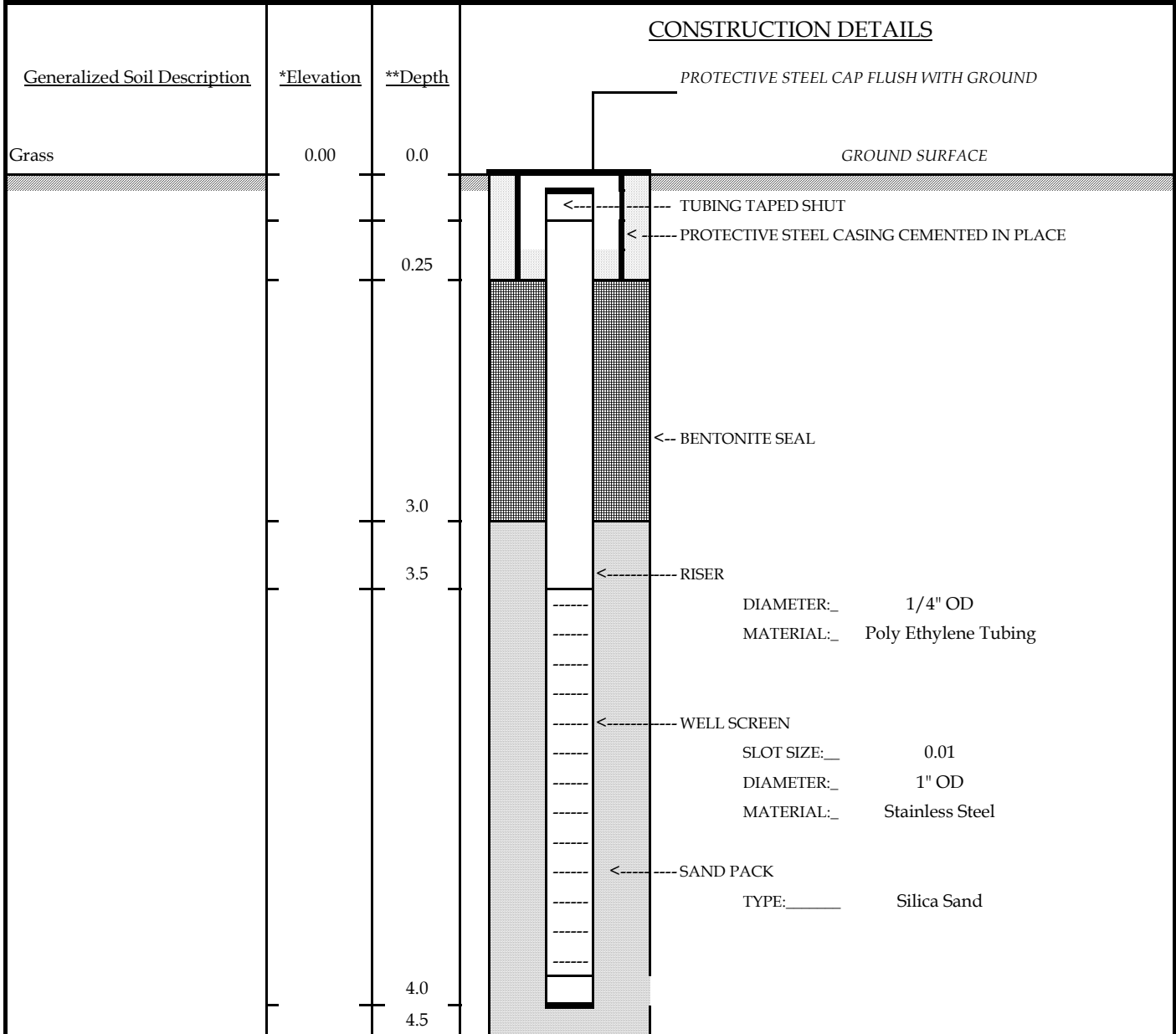
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

WELL : SG-02

Parcel 4A

## SOIL VAPOR POINT CONSTRUCTION LOG

<i>Project Name &amp; Location</i> TechCity Kingston, NY		<i>Project No.</i> 0096812		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i> NM	
<i>Drilling Company</i> Parratt Wolff		<i>Foreman</i> Doug Thoma		<i>Date</i>	<i>Time</i>	<i>Level (feet)</i>	<i>Ground Elevation (feet)</i> NM
<i>Surveyor</i>							<i>Top of Protective Steel Cap Elevation (feet)</i> NM
<i>Date and Time of Completion</i>		<i>Geologist</i> J. Elder					<i>Top of Riser Pipe Elevation (feet)</i> NM



REMARKS

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\* Elevation (feet) above mean sea level unless noted

\*\* Depth in feet below ground surface



# ERM

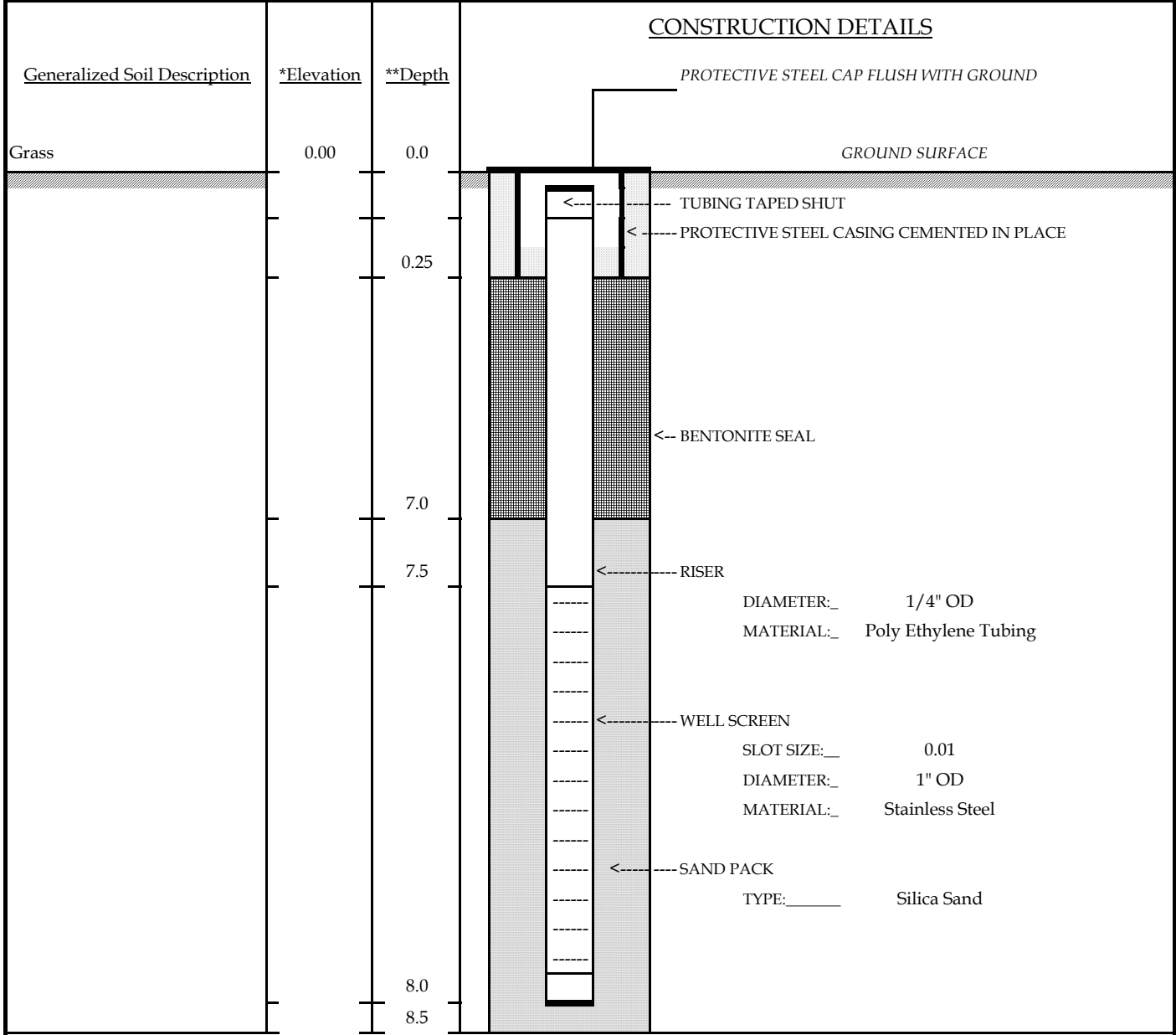
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

WELL : SG-03

Parcel 1

## SOIL VAPOR POINT CONSTRUCTION LOG

Project Name & Location <b>TechCity Kingston, NY</b>		Project No. <b>0096812</b>		Water Level(s) <i>(ft below top of PVC casing)</i>		Site Elevation Datum (feet) NM	
Drilling Company <b>Parratt Wolff</b>		Foreman <b>Doug Thoma</b>		Date	Time	Level (feet)	Ground Elevation (feet) NM
Surveyor		Geologist <b>J. Elder</b>		<b>NA</b>			Top of Protective Steel Cap Elevation (feet) NM
Date and Time of Completion <b>3/5/09 1125</b>							Top of Riser Pipe Elevation (feet) NM



REMARKS \_\_\_\_\_

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\* Elevation (feet) above mean sea level unless noted      \*\* Depth in feet below ground surface

# ERM

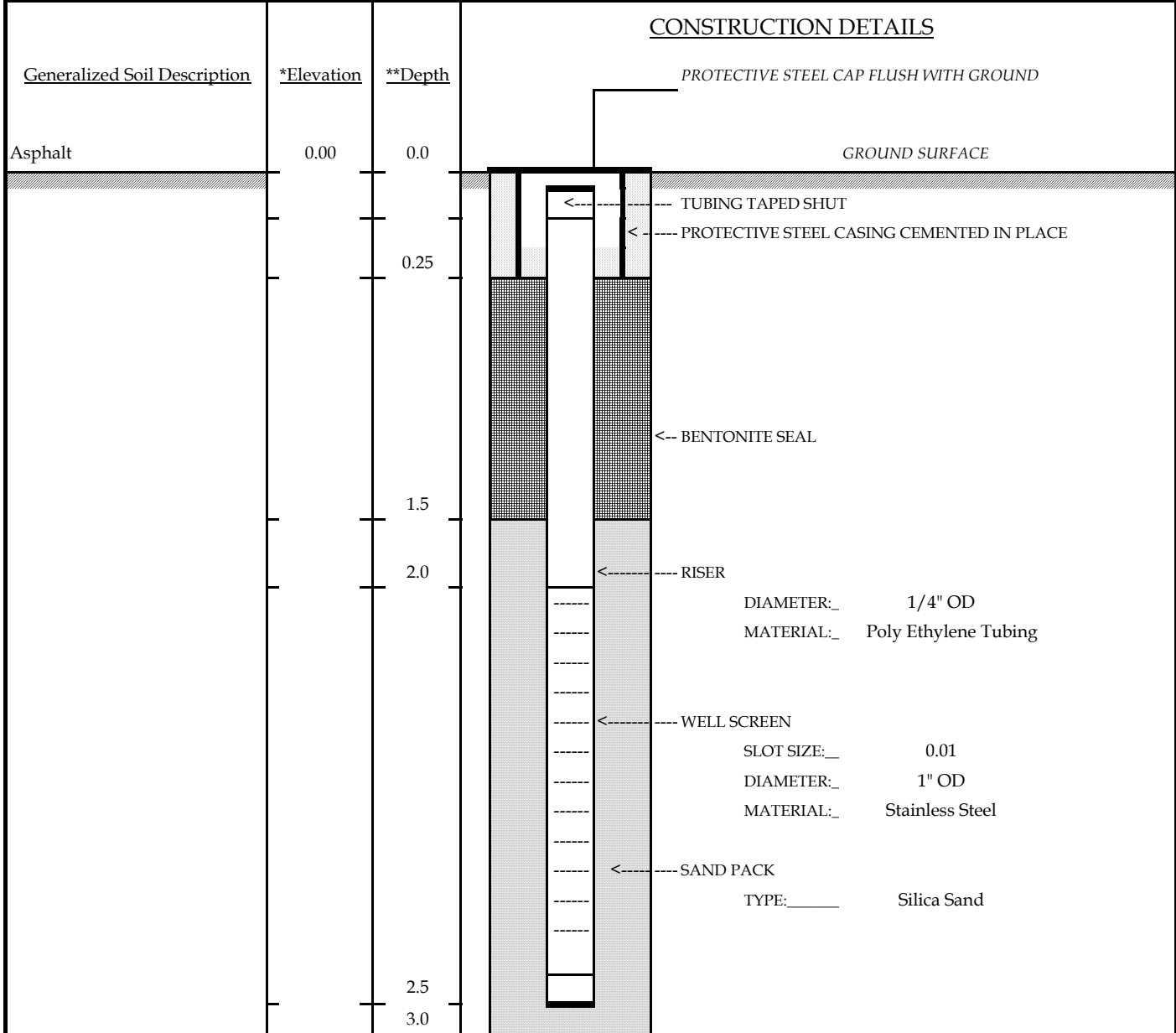
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

WELL : SG-03

Parcel 4A

## SOIL VAPOR POINT CONSTRUCTION LOG

Project Name & Location <b>TechCity Kingston, NY</b>		Project No. <b>0096812</b>		Water Level(s) <i>(ft below top of PVC casing)</i>		Site Elevation Datum (feet) NM	
Drilling Company <b>Parratt Wolff</b>		Foreman <b>Doug Thoma</b>		Date	Time	Level (feet)	Ground Elevation (feet) NM
Surveyor		Geologist <b>J. Elder</b>		NA			Top of Protective Steel Cap Elevation (feet) NM
Date and Time of Completion <b>3/5/09 1355</b>							Top of Riser Pipe Elevation (feet) NM



REMARKS \_\_\_\_\_

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\* Elevation (feet) above mean sea level unless noted

\*\* Depth in feet below ground surface

# ERM

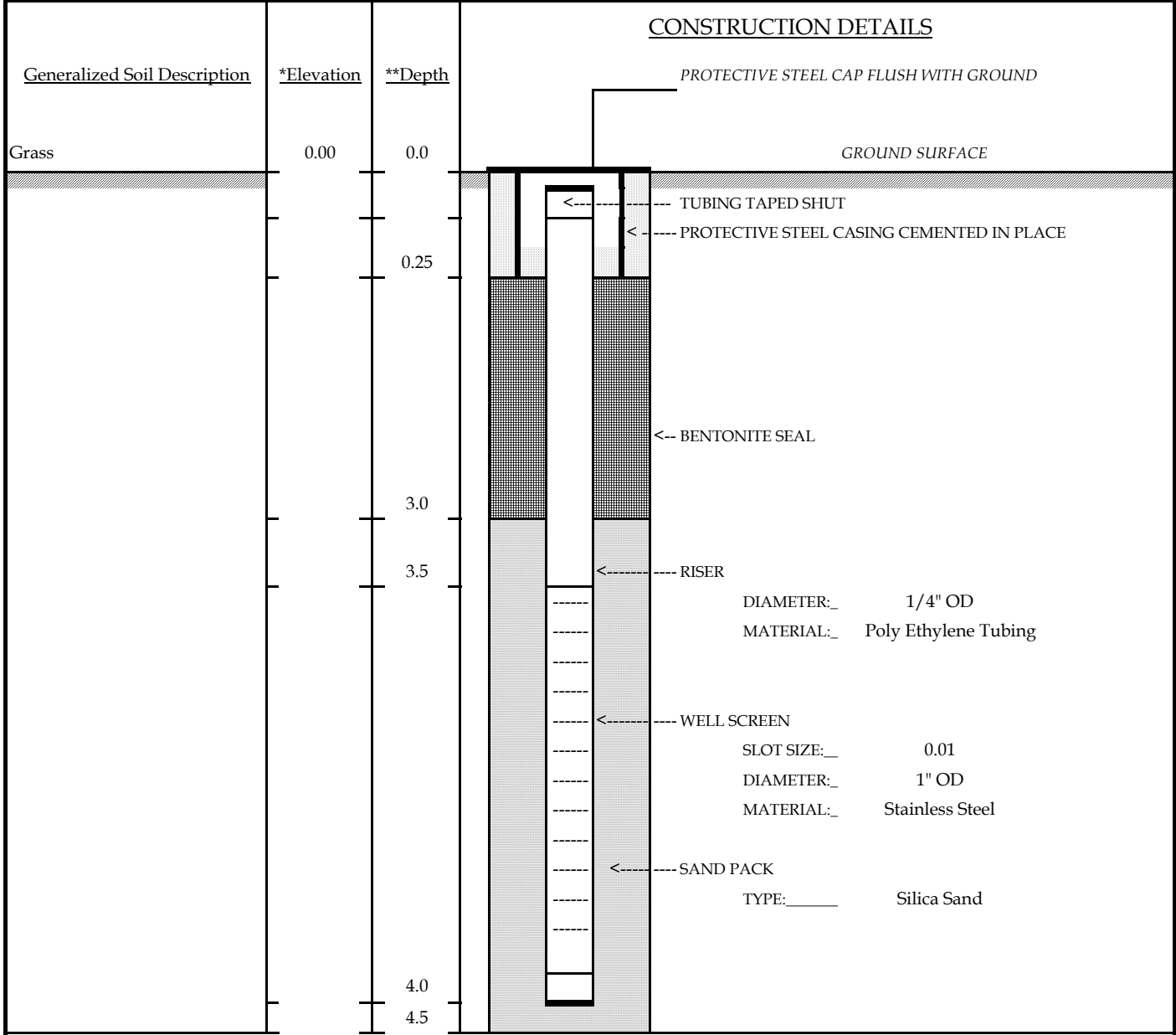
5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

WELL : SG-04

Parcel 4A

## SOIL VAPOR POINT CONSTRUCTION LOG

Project Name & Location <b>TechCity Kingston, NY</b>		Project No. <b>0096812</b>		Water Level(s) <i>(ft below top of PVC casing)</i>		Site Elevation Datum (feet) NM	
Drilling Company <b>Parratt Wolff</b>		Foreman <b>Doug Thoma</b>		Date	Time	Level (feet)	Ground Elevation (feet) NM
Surveyor		Geologist <b>J. Elder</b>		NA			Top of Protective Steel Cap Elevation (feet) NM
Date and Time of Completion <b>3/5/09 1215</b>							Top of Riser Pipe Elevation (feet) NM



REMARKS \_\_\_\_\_

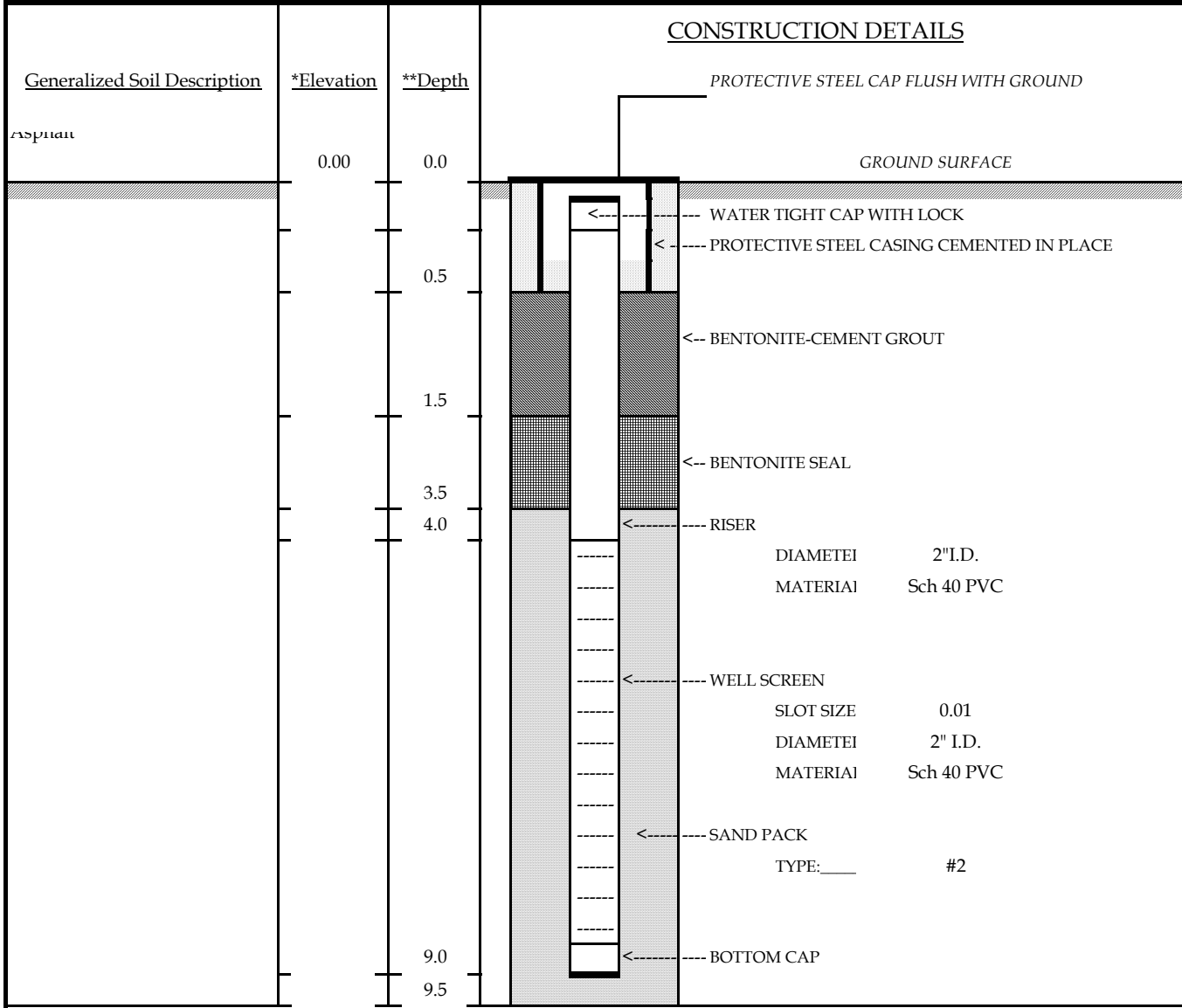
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\* Elevation (feet) above mean sea level unless noted      \*\* Depth in feet below ground surface

## MONITORING WELL CONSTRUCTION LOG

Project Name & Location <b>Tech City Kingston, NY 0096812</b>		Project No. <b>0096812</b>		Water Level(s) <i>(ft below top of PVC casing)</i>		Site Elevation Datum (feet) <b>176.72 (MW-6)</b>	
Drilling Company <b>Parratt Wolff</b>		Foreman <b>Layne Pech</b>		Date <b>3/23/2009</b>	Time	Level (feet) <b>4.25</b>	Ground Elevation (feet) <b>NM</b>
Surveyor							Top of Protective Steel Cap Elevation (feet) <b>NM</b>
Date and Time of Completion <b>3/5/09 1715</b>		Geologist <b>J. Elder</b>				Top of Riser Pipe Elevation (feet) <b>172.59</b>	



REMARKS \_\_\_\_\_

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\* Elevation (feet) above mean sea level unless noted

\*\* Depth in feet below ground surface

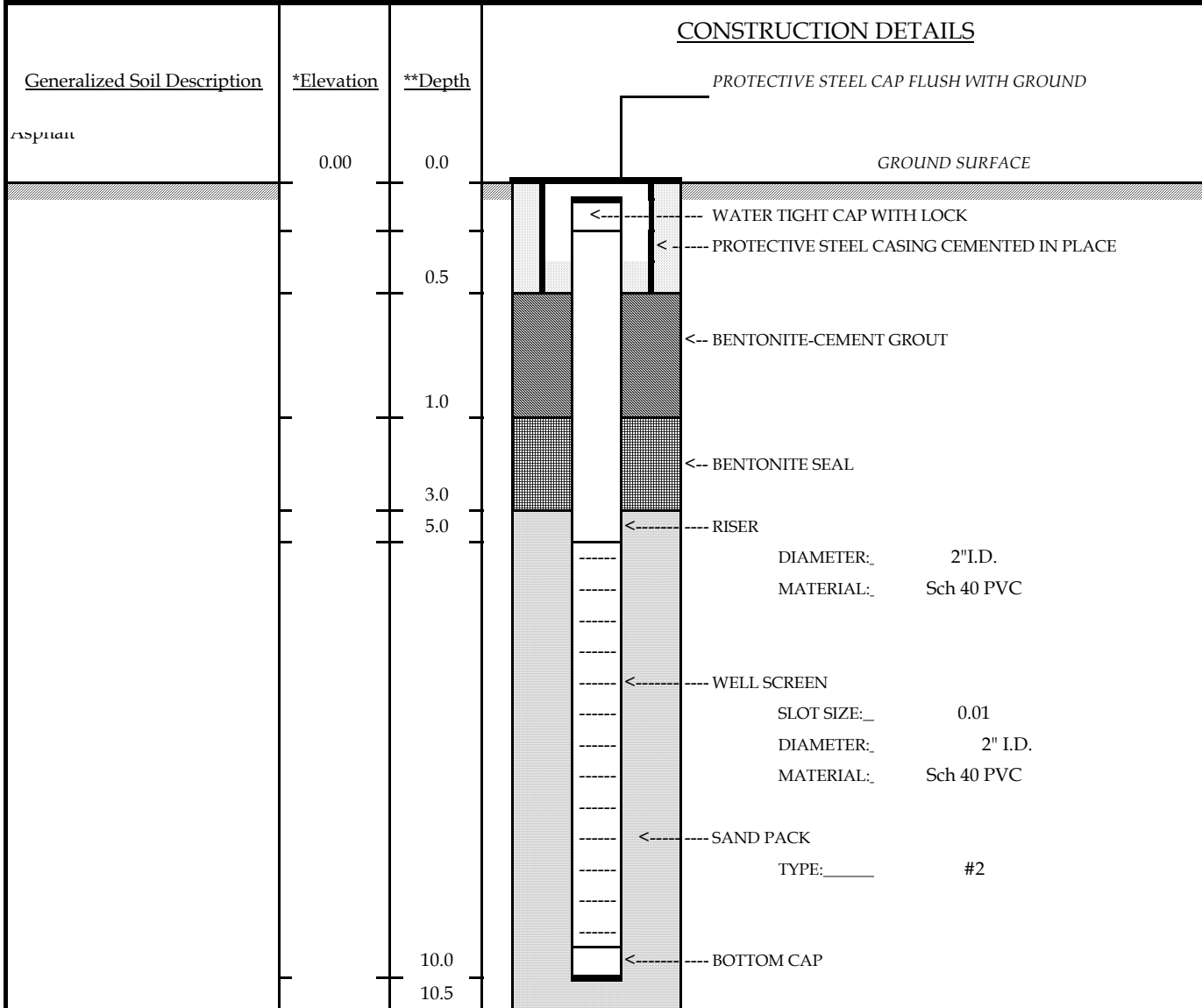
# ERM

WELL :     MW-19    

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

## MONITORING WELL CONSTRUCTION LOG

<i>Project Name &amp; Location</i> Tech City Kingston, NY		<i>Project No.</i> 0096812		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i> 176.72 (MW-6)	
<i>Drilling Company</i> Parratt Wolff		<i>Foreman</i> Layne Pech		<i>Date</i> 3/23/2009	<i>Time</i>	<i>Level (feet)</i> 6.50	<i>Ground Elevation (feet)</i> NM
<i>Surveyor</i>							<i>Top of Protective Steel Cap Elevation (feet)</i> NM
<i>Date and Time of Completion</i> 3/9/09      1645		<i>Geologist</i> J. Elder					<i>Top of Riser Pipe Elevation (feet)</i> 176.59



REMARKS \_\_\_\_\_  
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\* Elevation (feet) above mean sea level unless noted

\*\* Depth in feet below ground surface

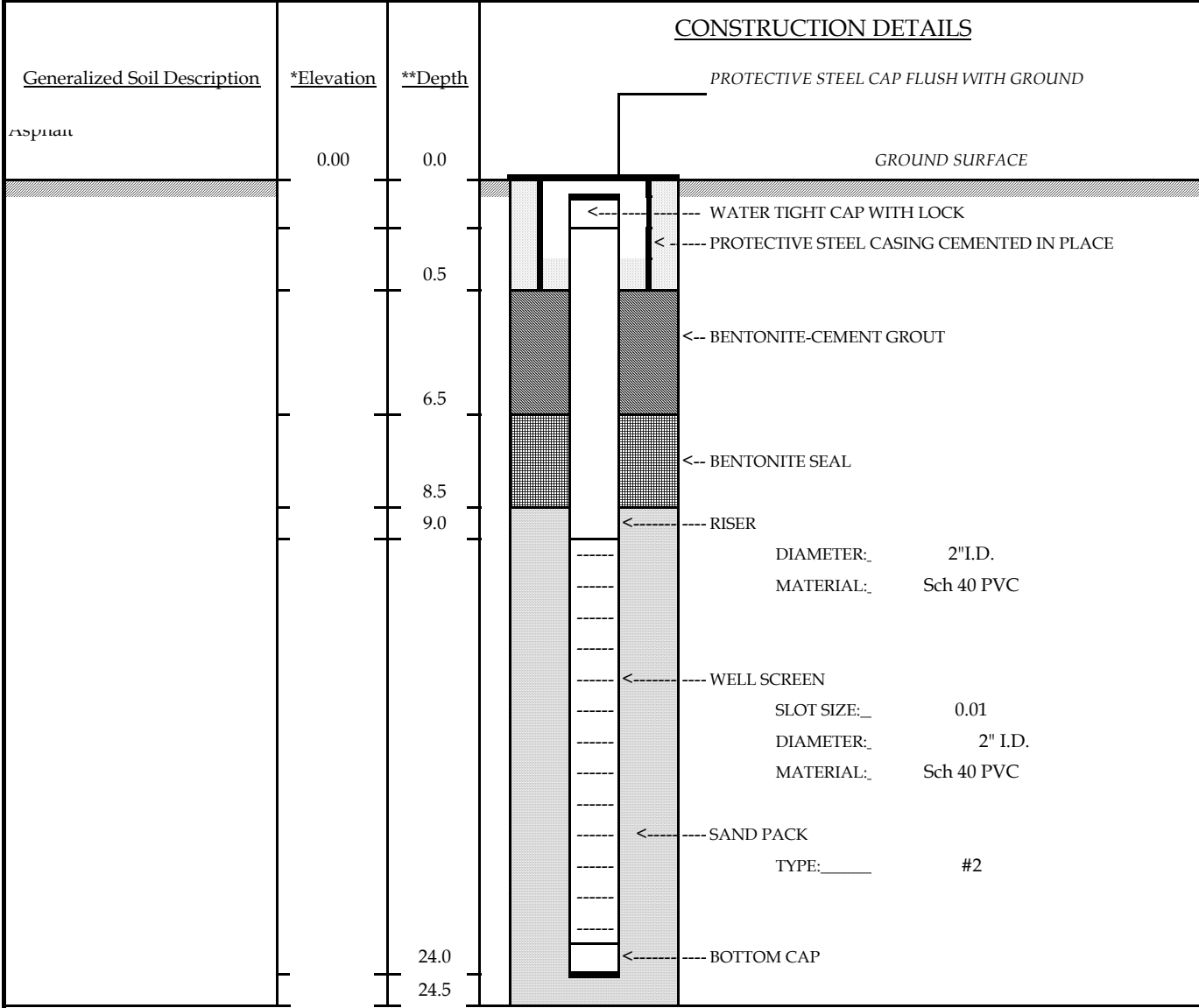
# ERM

WELL :     MW-20    

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

## MONITORING WELL CONSTRUCTION LOG

<i>Project Name &amp; Location</i> Tech City Kingston, NY		<i>Project No.</i> 0096812		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i> 175.49 (MW-1)	
<i>Drilling Company</i> Parratt Wolff		<i>Foreman</i> Layne Pech		<i>Date</i> 3/23/2009	<i>Time</i>	<i>Level (feet)</i> 9.98	<i>Ground Elevation (feet)</i> NM
<i>Surveyor</i>							<i>Top of Protective Steel Cap Elevation (feet)</i> NM
<i>Date and Time of Completion</i> 3/6/09      1130		<i>Geologist</i> J. Elder					<i>Top of Riser Pipe Elevation (feet)</i> 179.56



REMARKS \_\_\_\_\_  
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\* Elevation (feet) above mean sea level unless noted      \*\* Depth in feet below ground surface

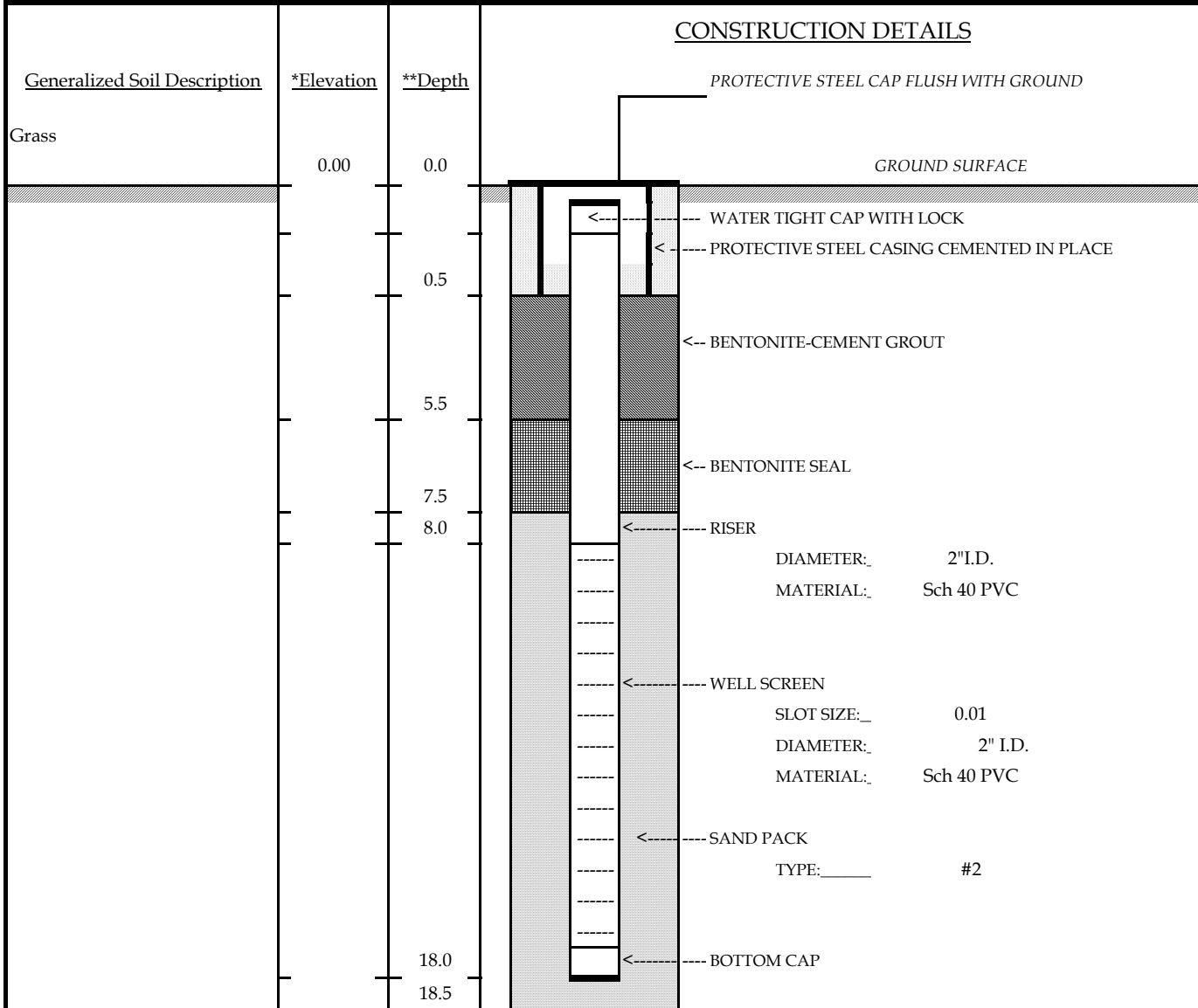
# ERM

WELL :     MW-21    

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

## MONITORING WELL CONSTRUCTION LOG

<i>Project Name &amp; Location</i> Tech City Kingston, NY 0096812		<i>Project No.</i> 0096812		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i> 175.49 (MW-1)	
<i>Drilling Company</i> Parratt Wolff		<i>Foreman</i> Layne Pech		<i>Date</i> 3/23/2009	<i>Time</i>	<i>Level (feet)</i> 8.80	<i>Ground Elevation (feet)</i> NM
<i>Surveyor</i>							<i>Top of Protective Steel Cap Elevation (feet)</i> NM
<i>Date and Time of Completion</i> 3/9/09      1345		<i>Geologist</i> J. Elder				<i>Top of Riser Pipe Elevation (feet)</i> 178.40	



REMARKS \_\_\_\_\_

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\* Elevation (feet) above mean sea level unless noted      \*\* Depth in feet below ground surface

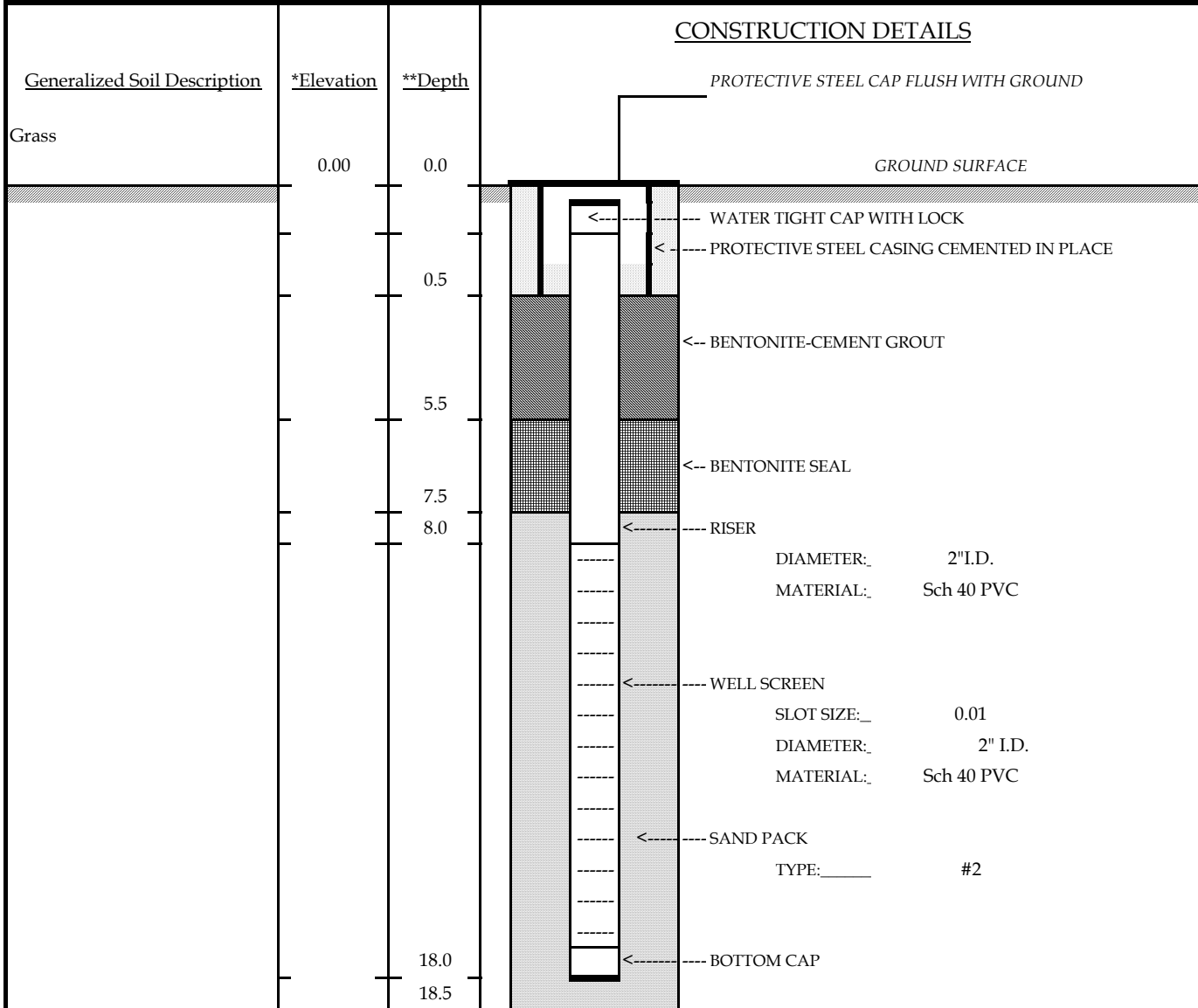
# ERM

WELL :     MW-22    

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554

## MONITORING WELL CONSTRUCTION LOG

<i>Project Name &amp; Location</i> Tech City Kingston, NY 0096812		<i>Project No.</i> 0096812		<i>Water Level(s)</i> (ft below top of PVC casing)		<i>Site Elevation Datum (feet)</i> 175.49 (MW-1)	
<i>Drilling Company</i> Parratt Wolff		<i>Foreman</i> Layne Pech		<i>Date</i> 3/23/2009	<i>Time</i> 1500	<i>Level (feet)</i> 8.29	<i>Ground Elevation (feet)</i> NM
<i>Surveyor</i>		<i>Geologist</i> J. Elder					<i>Top of Protective Steel Cap Elevation (feet)</i> NM
<i>Date and Time of Completion</i> 3/6/09 1500		<i>Geologist</i> J. Elder				<i>Top of Riser Pipe Elevation (feet)</i> 177.90	



REMARKS \_\_\_\_\_

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\* Elevation (feet) above mean sea level unless noted      \*\* Depth in feet below ground surface



*APPENDIX D*

*Monitoring Well Development Logs*

# WELL DEVELOPMENT DATA SHEET

Well Number: HW-18     Date: 3.10.09     Project Name: Tech City     Project Number: DB9U812

Weather Conditions: overcast, dry ± 40°F

Development Technique

Static water level before development: 4.58 (feet below top of casing)  
 Bottom of well: 8.82 (feet below top of casing)

Time Started: 1030     Time Finished: \_\_\_\_\_

TIME	DIW	Pump (on/off)	Turb.	Temp. °C	pH	Cond. mS/cm	Flow ml/min	DO mg/L	ORP	Comments
<i>Initial Conditions</i>										
1046	4.61	on	N/A	7.87	7.24	1.749	250	6.38	145.8	
1105	4.65	on	18.8	7.89	7.21	1.691	250	6.35	141.6	
1120	4.67	on	8.31	7.87	7.20	1.697	350	6.35	137.4	
1135	4.65	on	4.27	7.85	7.15	1.748	350	6.49	133.4	
1150	4.61	on	3.22	7.91	7.17	1.753	350	6.12	127.6	

NOTES: 1 well volume = 1.68 gal

# WELL DEVELOPMENT DATA SHEET

Well Number: MW-19      Date: 3.11.09      Project Name: Tech City      Project Number: 0096812

Weather Conditions: Overcast, rain, ± 40°F

Development Technique

Static water level before development: 6.62 (feet below top of casing)  
 Bottom of well: 9.47 (feet below top of casing)

Time Started: 1050      Time Finished: 1145

TIME	DTW	Pump (on/off)	Turb.	Temp. °C	pH	Cond. mS/cm	Flow ml/min	DO mg/L	ORP	Comments
Initial Conditions	feet									
1115	6.70	on	NTN	8.20	7.11	1619	300	5.48	94.7	
1120	6.70	on	25.6	8.36	7.05	1624	350	5.19	81.9	
1125	6.71	on	18.4	8.39	7.02	1622	350	5.40	67.5	
1130	6.71	on	8.7	8.45	6.99	1610	350	4.82	43.5	
1135	6.71	on	8.1	8.49	6.99	1601	350	<del>3.3</del> 4.65	33.8	

NOTES: 1 well volume = 46 gal

# WELL DEVELOPMENT DATA SHEET

Well Number: MW-22 Date: 3.10.09 Project Name: 0696812 Project Number: 0696812

Tech City

Weather Conditions: Overcast, dry  $\pm 40^{\circ}\text{F}$

Development Technique

Static water level before development: 8.65 (feet below top of casing)  
 Bottom of well: 16.77 (feet below top of casing)

Time Started: 1250 Time Finished: 1445

TIME	DIW	Pump (on/off)	Turb.	Temp.	pH	Cond.	Flow	DO	ORP	Comments
Initial Conditions										
1325	8.76	on	84.0	8.51	6.72	1.277	350	6.51	145.9	
1350	8.77	on	28.7	8.48	6.72	1.526	400	5.91	140.8	
1411	8.77	on	15.0	8.33	6.66	1.456	400	5.73	143.3	
1425	8.77	on	9.39	8.30	6.68	1.721	400	5.62	142.7	
1440	8.77	on	5.66	8.31	6.65	1.773	400	5.46	148.4	

NOTES: | well volume = 1.3 gals.

# WELL DEVELOPMENT DATA SHEET

Well Number: MW-2φ Date: 3.10.09 Project Name: Teek City Project Number: 0092812

Weather Conditions: overcast, dry ± 40°F

Static water level before development: 9.12 (feet below top of casing)  
 Bottom of well: 15.90 (feet below top of casing)

Time Started: 1515 Time Finished: 1620

Development Technique

TIME	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond. ns/cm	Flow ml/min	DO mg/l	ORP	Comments
Initial Conditions										
1525	9.65	on	12.9	8.14	6.66	1.100	350	7.53	100.4	
1535	9.67	on	33.1	8.12	6.69	0.843	350	7.89	103.2	
1550	9.71	on	24.3	8.04	6.71	0.742	400	8.04	107.4	
1600	9.71	on	13.7	8.04	6.72	0.694	400	8.07	110.7	
1610	9.72	on	9.95	8.60	6.72	0.663	400	7.90	112.9	

NOTES: well volume = 1.80 gals.

# WELL DEVELOPMENT DATA SHEET

Well Number: MU-20      Date: 3.9.09      Project Name: Tech City      Project Number: 0096812

Weather Conditions: Overcast, dry, +40°F

Static water level before development: 10.31 (feet below top of casing)  
 Bottom of well: 22.37 (feet below top of casing)

Time Started: 1430      Time Finished: 1630

Development Technique

TIME	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	Flow	DO	ORP	Comments
Initial Conditions	feet		NTR	°C		ms/cm	ml/min	mg/L		
1443	10.31	DN	NM	9.25	6.84	1.347	200	2.23	1.8	
1525	10.51	DN	39.0	9.50	6.71	1.346	250	2.19	4.3	
1555	10.56	DN	8.99	9.57	6.62	1.249	300	2.93	6.2	
1623	10.53	DN	6.79	9.43	6.58	1.238	300	2.09	18.9	

NOTES: NM - not measured

*APPENDIX E*

*Low-Flow Ground Water Sampling Forms*

# LOW FLOW DATA SHEET

Well ID: MW-1

Date: 2.26.09

Project Name: DD96812

Project Number: Tech City

Weather Conditions:

Overcast, dry ± 30°F

Static water level before lowflow: 7.12 (feet below top of casing)

Bottom of well: 9.78 (feet below top of casing)

Pump Used  
perinhalite portable  
Sampler

Time Started: 1035

Time Finished: 1215

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
			+/-10%	+/-3%	0.1 unit	+/-3%	+/-10%	100-400	+/-10 mv	
1055	7.24	DN	1910	5.19	6.72	227	8.55	SD	73.3	
1100	7.22	DN	899	5.14	6.79	235	8.19	SD	74.3	
1205	7.20	DN	368	5.01	6.65	241	8.23	SD	79.1	
1110	7.21	DN	301	4.68	6.69	247	8.54	SD	77.5	
1115	7.21	DN	255	4.65	6.68	252	8.58	SD	78.1	
1120	7.21	DN	162	4.95	6.60	305	8.27	SD	82.2	
1125	7.22	DN	143	5.22	6.54	351	7.99	SD	84.1	
1130	7.21	DN	963	5.15	6.56	404	7.80	SD	85.2	
1135	7.21	DN	6.17	5.08	6.53	428	7.66	SD	86.7	
1140		DN	5.78	5.18	6.52	494	7.52	SD	86.4	
* DUPE	Collected here					4			87.2	
1145	7.21	DN	4.67	5.30	6.51	485	7.38	SD	87.2	
1150	7.21	DN	4.26	5.37	6.50	491	7.34	SD	87.3	
1200	7.21	DN	4.17	5.32	6.46	493	7.40	SD	88.6	

Notes: high concentration of air bubbles in purge fld.

Sample ID: TE-P1-MW-D1

Sample Time: 1205

Total Vol. Purged: 1.5 Gallons

Samplers Initials: MS



# LOW FLOW DATA SHEET

Well ID: MW-2

Date: 2.2.09

Project Name: Tek City

Project Number: D096812

Weather Conditions:

overcast, dry ± 40°F

Static water level before lowflow: 6.72 (feet below top of casing)

Bottom of well: 10.19 (feet below top of casing)

Pump Used  
peristaltic portable  
sampler

Time Started: 1220

Time Finished: \_\_\_\_\_

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH SU	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
1235	6.74	on	7.66	6.66	6.42	1393	6.72	SD	89.1	
1240	6.74	on		6.70	6.41	1400	6.10	SD	89.1	
1245	6.75	on		6.77	6.39	1411	5.61	SD	89.4	
1250	6.75	on		6.78	6.42	1416	5.41	SD	86.9	
1255	6.76	on		6.80	6.39	1422	5.26	SD	88.4	
1300	6.75	on		6.86	6.37	1419	5.14	SD	89.5	
1305	6.75	on		6.85	6.38	1432	5.19	SD	89.0	
1310	6.75	on		6.85	6.38	1430	5.13	SD	89.0	
1315	6.75	on	1.77	6.83	6.36	1434	5.11	SD	89.3	

Notes:

Sample ID: TC-FI-MW-02

Sample Time: 1320

Total Vol. Purged: 1 Gallons

Samplers Initials: JJ

# LOW FLOW DATA SHEET

Well ID: MW-3

Date: 2.26.09

Project Name: TEL City

Project Number: 00916B12

Weather Conditions: overcast, dry

± 30°F

Static water level before lowflow: 1.48 (feet below top of casing)

Bottom of well: 8.41 (feet below top of casing)

Pump Used:  
Permatite portable  
Sampler

Time Started: 0845

Time Finished: 1010

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH SU	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
0850	5.39	on	NH	5.42	6.98	1139	2.39	SD	41.3	
0855	6.14	on	NH	5.35	6.85	1139	1.38	SD	47.2	
0900	8.29	on	NH	5.70	7.09	1271	1.76	SD	16.0	

Notes: Well pumped dry @ 0915  
recharged to 10.5' @ 1000; sample was collected.

Sample ID: TEL-P1-MW-D3  
 Sample Time: 1000  
 Total Vol. Purged: 1 Gallons  
 Samplers Initials: M

# LOW FLOW DATA SHEET

Well ID: MW-4

Date: 2/26/09

Project Name: Tech City

Project Number: 0096812

Weather Conditions:

25°F, cloudy, W wind, 5 mph, Sleet

Static water level before low flow: 7.40' (feet below top of casing)

Bottom of well: \_\_\_\_\_ (feet below top of casing)

Pump Used  
Barnast Peristaltic Pump

Time Started: 0845

Time Finished: 1000

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH SU	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
0855	8.99	on	9.8	5.67	5.53	2093	6.48	50	111.6	
0900	9.35		15.2	5.82	6.06	2070	3.78	50	100.6	
0905	9.11		22.8	6.09	6.20	2068	2.85	50	98.2	
0910	8.93		49.6	6.56	6.19	2055	1.28	50	89.3	
0915	9.01		67.1	6.74	6.25	2038	1.39	50	82.1	
0920	9.04		77.2	7.11	6.27	2024	1.35	50	77.2	
0925	9.10		72.3	7.14	6.28	2027	1.37	50	75.6	
0930	9.08		65.3	6.96	6.30	2022	1.27	50	73.0	
0935	8.75		60.1	6.98	6.32	2032	2.11	50	69.1	
0940	8.59		30.3	7.09	6.33	2041	2.75	50	63.9	
0945	8.19		15.7	7.02	6.36	2052	3.33	50	58.7	
0950	8.18		14.1	7.15	6.38	2059	2.99	50	56.8	
0955	8.20	N	9.8	7.21	6.40	2061	2.89	50	56.1	

Notes: Sample: No odor, no smear

Sample ID: TC-P2-MW-04

Sample Time: 1000

Total Vol. Purged: 6.0 Gallons

Samplers Initials: J.E

# LOW FLOW DATA SHEET

Well ID: MW-5

Date: 2/26/09

Project Name: VeckG4

Project Number: 0696812

Weather Conditions:

35°F, cloudy, SW Wind 5mph

Static water level before lowflow: 4.95' (feet below top of casing)

Bottom of well: \_\_\_\_\_ (feet below top of casing)

Pump Used  
Barrett Peristaltic Pump

Time Started: 1145

Time Finished: 1225

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH SU	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
1150	4.97	On	+/-10%	5.76	5.66	+/-3%	+/-10%	100	82.1	
1155	4.99		33.0	6.20	<del>6.87</del> 6.87	687	7.66	160	59.0	
1200	4.99		23.1	6.24	<del>7.03</del> 7.03	690	6.68	160	56.2	
1205	4.99		17.1	6.13	7.20	705	6.09	160	52.1	
1210	4.99		9.59	6.36	7.22	725	5.95	160	51.5	
1215	4.99		7.27	6.66	7.22	745	5.91	160	51.3	
1220	4.99		4.36	6.62	7.22	740	5.89	160	52.1	

Notes: Sample: Clear, no odor, no skew

Sample ID: TC-P1-MW-805

Sample Time: 1225

Total Vol. Purged: 0.75 Gallons

Samplers Initials: SL



MW

# LOW FLOW DATA SHEET

Well ID: MW-7

Date: 2.25.09

Project Name: Tech City

Project Number: 0096812

Weather Conditions: Clear, dry ±30°F

Static water level before lowflow: 3.25 (feet below top of casing)  
Bottom of well: 10.15 (feet below top of casing)

Pump Used:  
Peristaltic portable  
Sampler

Time Started: 1605 Time Finished: 1700

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH SU	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
			+/- 10%	+/- 3%	0.1 unit	+/- 3%	+/- 10%	100-400	+/- 10 mv	
1620	3.45	on	67.7	7.97	4.23	8611	7.05	50	113.8	
1625	3.47	on	40.9	7.69	4.09	8653	7.82	75	114.2	
1630	3.48	on	22.9	6.78	4.00	8731	8.31	75	115.9	
1635	3.51	on	18.8	6.67	5.93	8713	8.19	50	117.3	
1640	3.50	on	10.67	6.67	5.89	8722	8.17	50	118.2	
1645	3.52	on	8.92	6.55	5.87	8752	8.24	50	118.3	

Notes: Sample ID: TC-P1-MW-07

Sample Time: 1650

Total Vol. Purged: 2 Gallons

Samplers Initials: M

# LOW FLOW DATA SHEET

Well ID: MW-8      Date: 2.25.09      Project Name: Tech City      Project Number: BD9UB12

Weather Conditions:

Clear, dry, ±30°F

Static water level before lowflow: 5.58 (feet below top of casing)  
 Bottom of well: 11.05 (feet below top of casing)

Pump Used  
Peristaltic portable sampler

Time Started: 1305      Time Finished: 1410

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
			+/-10%	+/-3%	0.1 unit	+/-3%	+/-10%	100-400	+/-10 mv	
1310	5.60	on	4.73	9.25	6.64	3219	5.60	100	78.7	
1315	5.60	on	3.98	9.13	6.53	3234	5.47	100	84.2	
1320	5.61	on	2.93	9.03	6.52	3239	5.51	100	82.9	
1325	5.61	on	1.58	8.98	6.29	3238	5.60	100	96.5	
1330	5.61	on	2.87	9.00	6.27	3230	5.60	100	98.7	
1335	5.61	on	2.38	9.04	6.30	3233	5.61	100	97.1	
1340	5.61	on	3.10	9.05	6.30	3235	5.62	100	97.6	
1345	5.61	on	2.08	9.08	6.45	3239	5.76	100	84.0	
1350	5.61	on	1.54	9.08	6.45	3236	5.78	100	85.9	
1355	5.61	on	1.48	9.11	6.38	3234	5.77	100	91.1	

Notes:

Sample ID: TE-P1-MW-08

Sample Time: 1400

Total Vol. Purged: 2 Gallons

Samplers Initials: AL

# LOW FLOW DATA SHEET

Well ID: MW-12

Date: 2.25.09

Project Name: Tech City

Project Number: 00910812

Weather Conditions:

Clear, dry ± 30°F

Static water level before low flow: 4.91 (feet below top of casing)  
 Bottom of well: 10.35 (feet below top of casing)

Pump Used  
 peristaltic portable  
 sampler

Time Started: 1420

Time Finished: 1600

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
			+/- 10%	+/- 3%	0.1 unit	+/- 3%	+/- 10%	100-400	+/- 10 mv	
1430	1.04	DN	15.5	9.08	6.69	1567	6.83	SD	74.1	
1435	1.40	DN	15.3	8.69	6.82	1649	6.82	SD	69.0	
1440	<del>1.76</del> 1.76	DN	NM	8.78	6.86	1689	6.39	SD	68.2	
1445	8.24	DN	NM	8.97	6.95	1756	6.38	SD	63.1	
1450	8.58	DN	14.5	9.07	6.99	1833	6.37	SD	59.7	
1455	9.02	DN	7.60	9.38	6.92	1821	6.13	SD	65.6	
1500	9.86	DN	13.85	9.59	6.98	1877	6.54	SD	62.8	
1505	--	DN	--	--	--	--	--	SD	--	

Notes: Well pumped dry @ 1505

Recharged to 6.50 DTW @ 1550; sample was collected.

Sample ID: TC-PI-MW-12

Sample Time: 1555

Total Vol. Purged: 1 Gallons

Samplers Initials: MS

# LOW FLOW DATA SHEET

Well ID: MA-18 Date: 3/17/09 Project Name: TekCity Project Number: 0096812

Weather Conditions: 50°F, Clear, NE Wind Slight

Static water level before lowflow: 4.27 (feet below top of casing)  
 Bottom of well: \_\_\_\_\_ (feet below top of casing)

Pump Used  
Geo Pump 2  
 Resistivity: \_\_\_\_\_

Time Started: 1430 Time Finished: 1505

Time	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	DO	Flow	ORP	Comments
1430	4.27	on	69.5	11.29	7.45	2.381	12.86	225	3.9	
1435	4.31	on	15.5	10.16	7.05	2.299	6.56	225	41.7	
1440	4.32	on	6.05	16.10	7.10	2.065	6.18	225	55.9	
1445	4.32	on	4.31	9.64	7.21	1.822	6.09	225	65.5	
1450	4.32	on	2.93	9.80	7.25	1.737	5.97	225	73.3	
1455	4.32	on	1.61	9.65	7.25	1.716	5.89	225	78.6	
1500	4.32	on	1.37	9.60	7.25	1.686	5.85	225	84.2	
1505	4.32	on	1.10	9.52	7.25	1.671	5.95	225	86.0	

Notes:

Sample ID: TC-P1-MA-18  
 Sample Time: 1505  
 Total Vol. Purged: 1.5 Gallons  
 Samplers Initials: CR



MD-19

# LOW FLOW DATA SHEET

Well ID: W-18 Date: 3/17/09

Project Name: Tech City

Project Number: 0096812

Weather Conditions: 25°F, clear, calm

Static water level before lowflow: 6.53' (feet below top of casing)

Bottom of well: 8.41' (9.45') (feet below top of casing)

Pump Used  
Geo Pump 2  
Peristaltic Pump

Time Started: 0815 Time Finished: 0845

Time	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	DO	Flow	ORP	Comments
0815	6.53	on	64.3	7.37	7.31	0.543	12.46	225	57.0	
0820	6.59	on	83.9	7.87	7.05	0.533	3.32	225	86.0	
0825	6.59	on	10.3	7.96	7.02	0.534	3.25	225	88.5	
0830	6.59	on	11.5	8.04	7.00	0.534	3.06	225	90.7	
0835	6.59	on	5.26	8.12	6.99	0.535	3.00	225	92.2	
0840	6.59	on	1.40	8.02	7.00	0.536	3.03	225	92.6	
0845	6.59	on	2.15	8.01	6.99	0.535	2.92	225	93.2	

Notes:

Sample ID: TC-P1-MD-19

Sample Time: 0845

Total Vol. Purged: \_\_\_\_\_ Gallons 1.5

Samplers Initials: TE

# LOW FLOW DATA SHEET

Well ID: MW-1D Date: 3.17.09 Project Name: Toch City Project Number: 0092812

Weather Conditions: Sunny, dry  $\pm$  50°F

Pump Used

Static water level before lowflow: 10.04 (feet below top of casing)  
 Bottom of well: 22.58 (feet below top of casing)

Time Started: 1115 Time Finished: 1230

Time	DTW	Pump (on/off)	Turb. NTU	Temp. °C	pH	Cond. mS/cm	DO (%)	Flow m <sup>3</sup> /min	ORP	Comments
1125	10.32	on			✓ 6.53			✓ 200	✓ 248.1	
1130	10.24	on	177	10.5	✓ 6.50	0.933	15.4	✓ 200	✓ 245.1	
1135	10.20	on	100.8	10.18	✓ 6.50	0.984	21.1	✓ 200	✓ 240.5	
1140	10.28	on	94.9	10.25	✓ 6.51	1.026	19.2	✓ 200	✓ 236.2	
1145	10.25	on	70.4	10.21	✓ 6.51	1.059	19.3	✓ 200	✓ 233.8	
1150	10.25	on	43.4	10.19	✓ 6.52	1.111	19.7	✓ 200	✓ 232.4	
1155	10.25	on	34.0	10.25	✓ 6.52	1.120	19.0	✓ 200	✓ 232.8	
1200	10.25	on	27.0	10.17	✓ 6.54	1.128	18.9	✓ 200	✓ 232.4	
1205	10.25	on	15.0	10.11	✓ 6.51	1.129	18.8	✓ 200	✓ 235.0	
1210	10.25	on	12.8	10.23	✓ 6.51	1.188	18.0	✓ 200	✓ 235.4	
1215	10.26	on	8.7	10.42	✓ 6.51	1.190	17.5	✓ 200	✓ 235.4	
1215	10.25	on	7.9	10.21	✓ 6.52	1.196	17.4	✓ 200	✓ 234.9	

\* Notes: Collected DUP here. \*

Sample ID: TC-P1-MW1D (031709)  
 Sample Time: 1220

Total Vol. Purged: 4 Gallons  
 Samplers Initials: ML

# LOW FLOW DATA SHEET

Well ID: MW-21      Date: 3.17.09      Project Name: Tech City      Project Number: 0090812

Weather Conditions: Sunny, dry, ± 50°F

Static water level before lowflow: 8.83 (feet below top of casing)  
 Bottom of well: 15.61 (feet below top of casing)

Pump Used  
peristaltic pump

Time Started: 1245      Time Finished: 1340

Time	DTW	Pump	Turb.	Temp.	pH	Cond.	DO	Flow	ORP	Comments
	ft	(on/off)	NTU	°C		mS/cm	(%)	ml/min		
1255	9.02	on	289	4.79	6.75	0.768	57.3	200	225.5	
1300	9.02	on	18.0	8.60	6.74	0.611	68.4	200	226.7	
1305	9.04	on	12.6	8.69	6.75	0.561	70.4	200	227.0	
1310	9.05	on	6.54	8.87	6.75	0.534	68.5	200	227.8	
1315	9.04	on	4.26	8.38	6.73	0.531	71.3	200	229.9	
1320	9.05	on	NH	8.42	6.73	0.525	76.4	200	232.7	
1325	9.05	on	NH	8.38	6.74	0.520	75.3	200	240.5	
1330	9.05	on	2.65	8.40	6.74	0.517	73.6	200	237.6	

Notes: NH = not measured      Sample ID: TC-P1-MW-21

Sample Time: 1335  
 Total Vol. Purged: 3.5 Gallons  
 Samplers Initials: JK

# LOW FLOW DATA SHEET

Well ID: MU-22 Date: 3-17-09 Project Name: Tech City Project Number: 0092812

Weather Conditions: Sunny, dry, +50°F

Static water level before lowflow: 8.35 (feet below top of casing)

Bottom of well: 16.84 (feet below top of casing)

Pump Used  
Peristaltic

Time Started: 1425 Time Finished: \_\_\_\_\_

Time	DTW	Pump (on/off)	Turb.	Temp. °C	pH	Cond. mS/cm	DO (%)	Flow ml/min	ORP	Comments
1430	8.44	On	100.9	9.40	6.88	0.337	84.4	260	279.3	
1435	8.44	On	80.2	9.34	6.85	0.345	82.0	260	277.6	
1440	8.44	On	60.6	9.11	6.80	0.488	76.5	200	273.3	
1445	8.44	On	32.5	9.23	6.77	0.708	70.0	200	268.0	
1450	8.45	On	28.0	9.10	6.76	0.806	68.6	200	266.0	
1455	8.45	On	17.4	9.02	6.75	0.900	67.1	200	277.1	
1500	8.45	On	15.1	9.05	6.74	0.940	66.9	200	269.2	
1505	8.45	On	10.85	9.01	6.75	1.012	69.7	200	265.1	
1510	8.45	On	10.20	9.02	6.72	1.051	68.5	200	276.0	
1515	8.45	On	9.81	9.04	6.74	1.048	66.6	220	270.2	

Notes:

Sample ID: TC-F1-MU-22

Sample Time: 1522

Total Vol. Purged: 4.5 Gallons

Samplers Initials: AK

# LOW FLOW DATA SHEET

Well ID: MW-1A3AS

Date: 2/26/08

Project Name: TechCity

Project Number: 0096812

Weather Conditions:

25-30°F, Cloudy, some Wind 5 mph

Pump Used Baromet Peristaltic Pump
--

Static water level before lowflow: 3.85' (feet below top of casing)

Bottom of well: 14.40' (feet below top of casing)

3.85' initial 4" Diameter

Time Started: 1045

Time Finished: \_\_\_\_\_

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH SU	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
1050	3.97	ON	7.7	4.80	6.89	1045	6.41	50	44.4	
1055	4.04	✓	9.9	4.81	7.03	1039	4.76	50	42.7	
1100	4.07	✓	11.3	4.75	7.06	1035	3.52	50	42.1	
1105	4.10	✓	9.7	4.78	7.04	1033	2.48	50	43.3	
1110	4.11	✓	8.1	4.71	7.04	1030	2.12	50	43.5	
1115	4.12	✓	8.5	4.71	7.04	1028	2.08	50	44.1	
1120	4.12	✓	7.9	4.67	7.03	1027	2.03	50	44.2	

Notes: Sample is clear, no odor, no sludge

Sample ID: TC-PDA-MW-1A3AS  
 Sample Time: 1125

Total Vol. Purged: 0.5 Gallons

Samplers Initials: OE

# LOW FLOW DATA SHEET

Well ID: MD-1735 Date: 3/17/09

Project Name: Rock City

Project Number: 0096812

Weather Conditions: 30°F, clear, W Wind 5 mph

Static water level before lowflow: 9.89 (feet below top of casing)

Bottom of well: 20.90 (feet below top of casing)

Pump Used  
 Aero Pump 2  
 Peristaltic Pump

Time Started: 0920 Time Finished: 1020

Time	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	DO	Flow	ORP	Comments
0920	18.89	on	194	10.03	7.17	2.068	8.60	250	91.1	
0925	10.07	on	214	10.42	6.87	2.077	3.70	200	97.8	
0930	10.05	on	210	10.71	6.77	2.071	2.76	200	97.4	
0935	10.66	on	117	10.89	6.83	2.046	5.26	200	88.8	
0940	10.06	on	118	11.04	6.76	2.037	3.02	200	89.9	
0945	10.05	on	98.2	11.07	6.75	2.041	2.61	175	85.1	
0950	10.03	on	90.0	10.94	6.74	2.040	2.52	135	81.9	
0955	10.02	on	74.1	10.85	6.74	2.032	2.44	175	79.7	
1000	10.02	on	54.6	11.06	6.71	2.031	2.68	175	80.3	
1005	10.02	on	54.5	11.04	6.71	2.031	2.53	175	78.6	
1010	10.02	on	44.1	11.16	6.71	2.027	2.46	175	78.5	
1015	10.02	on	42.8	11.30	6.70	2.033	2.52	175	75.9	
1020	10.02	on	41.9	11.31	6.70	2.035	2.49	175	73.5	

Notes: 30 sec Pumped Before Sampling

Sample ID: TC-P1-MD-1735

Sample Time: 1020

Total Vol. Purged: 2.5 Gallons

Samplers Initials: KE

# LOW FLOW DATA SHEET

Well ID: MD-1745 Date: 3/17/09 Project Name: Kel City Project Number: 0096812

Weather Conditions: 35-40°F, clear, DE wind 5 mph

Static water level before low flow: 9.70 (feet below top of casing)  
 Bottom of well: 15.18 (feet below top of casing)

Pump Used  
Geo Pump 2  
Portable

Time Started: 1030 Time Finished: 1125

Time	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	DO	Flow	ORP	Comments
1030	9.90	on	397	7.93	7.15	0.730	14.20	150	65.9	
1035	10.23	on	415	7.84	6.91	0.816	3.52	150	73.5	
1040	10.29	on	415	7.42	7.13	0.710	3.89	150	75.6	
1045	10.31	on	282	7.50	7.67	0.730	3.61	125	79.9	
1050	10.32	on	219	7.57	7.08	0.736	2.49	125	80.4	
1055	10.33	on	182	7.73	7.02	0.745	1.88	125	82.4	
1100	10.33	on	156	7.71	7.01	0.749	1.77	125	80.9	
1105	10.33	on	112	7.72	7.02	0.756	1.64	125	79.7	
1110	10.33	on	82.6	7.72	7.01	0.760	1.50	125	78.8	
1115	10.33	on	70.9	7.82	7.00	0.764	1.41	125	78.0	
1120	10.33	on	60.8	7.77	7.00	0.774	1.36	125	75.7	
1125	10.33	on	55.7	7.82	7.00	0.775	1.32	125	73.6	

Notes: Grand Oaks Services Reports Well Casing  
Very Poor Damaged - Very Silty

Sample ID: TC-91-MW-1745  
 Sample Time: 1125  
 Total Vol. Purged: 2.0 Gallons  
 Samplers Initials: OE

# LOW FLOW DATA SHEET

Well ID: MW-6095 Date: 3/17/09

Project Name: Tek City

Project Number: 0096812

Weather Conditions: 45°F, clear, NE Wind 5mph

Static water level before low flow: 8.10 (feet below top of casing)  
 Bottom of well: 14.89 (feet below top of casing)

Pump Used  
Geo Pump 2  
Peristaltic

Time Started: 1205 Time Finished: 1245

Time	DTW	Pump (on/off)	Turb.	Temp. °C	pH	Cond. µm/cm	DO mg/L	Flow ml/min	ORP	Comments
<del>1210</del>	8.10	on	16.6	9.06	7.15	0.580	10.12	150	89.9	
<del>1205</del>	8.19	on	5.29	8.64	6.96	0.575	7.83	150	99.9	
1215	8.19	on	3.97	8.48	6.91	0.573	7.44	150	103.9	
1220	8.19	on	3.86	8.52	6.91	0.575	7.67	150	104.7	
1225	8.19	on	3.89	8.61	6.88	0.581	7.34	150	106.6	
1230	8.19	on	3.01	8.63	6.89	0.589	7.25	150	107.1	
1235	8.19	on	1.14	8.58	6.87	0.593	7.28	150	108.9	
1240	8.19	on	0.89	8.69	6.84	0.594	7.26	150	111.1	
1245										

Notes: Sample ID: TC-R1-MW-6095

Sample Time: 1245

Total Vol. Purged: 1.5 Gallons

Samplers Initials: CE



# LOW FLOW DATA SHEET

Well ID: MW-19      Date: 5/28/09      Project Name: TECH CITY      Project Number: 0090812

Weather Conditions:

Overcast, Calm, 76.0°F

Static water level before lowflow: 6.94 (feet below top of casing)  
 Bottom of well: 9.46 (feet below top of casing)

Pump Used  
Rental Coe Pump

Time Started: 1430      Time Finished: 1525

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH	Cond. us/cm <sup>3</sup>	DO mg/L	Flow ml/min.	ORP mv	Comments
1435	6.97	ON	50.0	15.10	7.15	572	3.48	250	49.1	
1440	6.97	ON	27.9	15.03	6.94	556	2.65	250	52.3	
1445	6.97	ON	20.8	14.97	6.95	563	2.52	250	50.8	
1450	6.98	ON	17.2	14.93	6.90	564	2.38	250	52.0	
1455	6.98	ON	12.8	14.89	6.87	566	2.29	250	52.3	
1500	6.98	ON	9.53	14.84	6.86	568	2.27	250	52.2	
1505	6.98	ON	6.77	14.78	6.85	569	2.28	250	52.6	
1510	6.98	ON	6.10	14.77	6.84	569	2.29	250	53.4	
1515										SAMPLE COLLECTED

Notes: Sample ID: TC-P1-MW-19 (5/09)  
 Sample Time: 1515  
 Total Vol. Purged: 2.0 Gallons  
 Samplers Initials: MN

# LOW FLOW DATA SHEET

Well ID: MW-20      Date: 5/28/09      Project Name: TECH CITY      Project Number: 0096812

Weather Conditions: Overcast, Light Rain, ± 60°F

Static water level before lowflow: 10.60 (feet below top of casing)  
 Bottom of well: 22.02 (feet below top of casing)

Pump Used  
Rental Geo Pump

Time Started: 1530      Time Finished: 1625

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH	Cond. us/cm <sup>25</sup>	DO mg/L	Flow ml/min.	ORP mv	Comments
1535	10.76	ON	71.5	11.75	6.86	916	4.41	250	55.4	
1540	10.76	ON	55.7	11.52	6.82	925	2.66	250	53.3	
1545	10.76	ON	40.1	11.30	6.79	978	2.18	250	52.8	
1550	10.76	ON	34.0	11.21	6.77	1030	2.13	250	52.3	
1555	10.76	ON	33.0	11.26	6.79	1085	2.11	250	53.1	
1600	10.76	ON	21.7	11.21	6.73	1140	2.11	250	52.4	
1605	10.76	ON	19.1	11.21	6.74	1172	2.12	250	52.6	
1610	10.76	ON	14.9	11.19	6.73	1200	2.12	250	52.9	
1615	10.76	ON	10.17	11.24	6.72	1225	2.12	250	53.2	
1620			SAMPLE		COLLECTED					

Notes: Sample ID: TC-P1-MW-20 (5/09)

Sample Time: 1620

Total Vol. Purged: 3.0 Gallons

Samplers Initials: MN

*APPENDIX F*

*Laboratory Analytical Reports & DUSRs  
for Ground Water Data*

Report Date:  
10-Mar-09 16:27



- Final Report
- Re-Issued Report
- Revised Report

**SPECTRUM ANALYTICAL, INC.**

*Featuring*

**HANIBAL TECHNOLOGY**

***Laboratory Report***

Environmental Resources Management  
5788 Widewaters Pkwy  
Dewitt, NY 13214  
Attn: Kristopher Perritt

Project: Tech City - Kingston, NY  
Project 0096812

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<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA91535-01	TC-P1-MW-08	Ground Water	25-Feb-09 14:00	26-Feb-09 16:21
SA91535-02	TC-P1-MW-12	Ground Water	25-Feb-09 15:55	26-Feb-09 16:21
SA91535-03	TC-P1-MW-07	Ground Water	25-Feb-09 16:50	26-Feb-09 16:21
SA91535-04	TC-P1-EB (2/25/09)	Deionized Water	25-Feb-09 14:00	26-Feb-09 16:21
SA91535-05	TC-P1-EB (2/26/09)	Deionized Water	26-Feb-09 08:15	26-Feb-09 16:21
SA91535-06	TC-P1-MW-03	Ground Water	26-Feb-09 10:00	26-Feb-09 16:21
SA91535-07	TC-P1-MW-04	Ground Water	26-Feb-09 10:00	26-Feb-09 16:21
SA91535-08	TC-P1-MW-123AS	Ground Water	26-Feb-09 11:25	26-Feb-09 16:21
SA91535-09	TC-P1-MW-01	Ground Water	26-Feb-09 12:05	26-Feb-09 16:21
SA91535-10	TC-P1-MW-05	Ground Water	26-Feb-09 12:25	26-Feb-09 16:21
SA91535-11	TC-P1-Dup	Ground Water	26-Feb-09 00:00	26-Feb-09 16:21
SA91535-12	TC-P1-MW-02	Ground Water	26-Feb-09 13:20	26-Feb-09 16:21
SA91535-13	Trip Blank	Ground Water	26-Feb-09 00:00	26-Feb-09 16:21

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110  
Connecticut # PH-0777  
Florida # E87600/E87936  
Maine # MA138  
New Hampshire # 2538  
New Jersey # MA011/MA012  
New York # 11393/11840  
Pennsylvania # 68-04426/68-02924  
Rhode Island # 98  
USDA # S-51435  
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.  
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 53 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

*Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at [www.spectrum-analytical.com](http://www.spectrum-analytical.com) for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).*

*Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.*

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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**CASE NARRATIVE:**

The samples were received 3.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

**SW846 8260B**

**Laboratory Control Samples:**

9021950-BS1

---

Analyte out of acceptance range.

1,1,2-Trichlorotrifluoroethane (Freon 113)

9030309-BS1

---

Analyte out of acceptance range.

2,2-Dichloropropane

9030309-BSD1

---

Analyte out of acceptance range.

Naphthalene

LCS/LCSD were analyzed in place of MS/MSD.

RPD out of acceptance range.

2,2-Dichloropropane

9030422-BSD1

---

Analyte out of acceptance range.

Naphthalene

9030549-BS1

---

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Naphthalene

9030549-BSD1

---

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Naphthalene

Analyte out of acceptance range.

n-Propylbenzene

**Spikes:**

9030309-MS1      *Source: SA91683-04*

---

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Dibromofluoromethane

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene  
Toluene

9030422-MS1      *Source: SA91750-01*

---

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

9030422-MSD1      *Source: SA91750-01*

---

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Dibromofluoromethane

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene  
Toluene

9030549-MS1      *Source: SA91661-02*

---

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene  
Benzene

9030549-MSD1      *Source: SA91661-02*

---

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

**Samples:**

SA91535-02      *TC-P1-MW-12*

---

Insufficient preservative to reduce the sample pH to less than 2.

Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

SA91535-06      *TC-P1-MW-03*

---

Insufficient preservative to reduce the sample pH to less than 2.

Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

SA91535-13      *Trip Blank*

---

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Dibromofluoromethane

---

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Sample Identification  
**TC-P1-MW-08**  
 SA91535-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-08**  
 SA91535-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	107			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-12

SA91535-02

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

25-Feb-09 15:55

Received

26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>			HDS,									
Prepared by method SW846 5030 Water MS			PH									
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-12**  
 SA91535-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 15:55

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>			HDS,									
Prepared by method SW846 5030 Water MS			PH									
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-07

SA91535-03

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

25-Feb-09 16:50

Received

26-Feb-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-07**  
 SA91535-03

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 16:50

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	86			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	120			70-130 %			"	"	"	"	

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Sample Identification  
 TC-P1-EB (2/25/09)  
 SA91535-04

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
 TC-P1-EB (2/25/09)  
 SA91535-04

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	87			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	106			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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Sample Identification  
 TC-P1-EB (2/26/09)  
 SA91535-05

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 26-Feb-09 08:15

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
 TC-P1-EB (2/26/09)  
 SA91535-05

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 26-Feb-09 08:15

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-03

SA91535-06

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 10:00

Received

26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>			HDS,									
Prepared by method SW846 5030 Water MS			PH									
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification  
**TC-P1-MW-03**  
 SA91535-06

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 10:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>			HDS,									
Prepared by method SW846 5030 Water MS			PH									
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	107			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-04

SA91535-07

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 10:00

Received

26-Feb-09

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-04**  
 SA91535-07

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 10:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	111			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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Sample Identification  
 TC-P1-MW-123AS  
 SA91535-08

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 11:25

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	27-Feb-09	27-Feb-09	9021950	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	0.7	J	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
 TC-P1-MW-123AS  
 SA91535-08

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 11:25

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	27-Feb-09	27-Feb-09	9021950	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	94			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	

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Sample Identification  
**TC-P1-MW-01**  
 SA91535-09

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 12:05

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-01**  
 SA91535-09

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 12:05

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	93			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	107			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	112			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	123			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-05

SA91535-10

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 12:25

Received

26-Feb-09

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-05**  
 SA91535-10

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 12:25

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	112			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	122			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

TC-P1-Dup

SA91535-11

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 00:00

Received

26-Feb-09

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-Dup**  
 SA91535-11

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 00:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	86			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	106			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	111			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	122			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-02

SA91535-12

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 13:20

Received

26-Feb-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-02**  
 SA91535-12

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 13:20

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	121			70-130 %			"	"	"	"	

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Sample Identification

**Trip Blank**  
SA91535-13

Client Project #  
0096812

Matrix  
Ground Water

Collection Date/Time  
26-Feb-09 00:00

Received  
26-Feb-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification

**Trip Blank**  
SA91535-13

Client Project #  
0096812

Matrix  
Ground Water

Collection Date/Time  
26-Feb-09 00:00

Received  
26-Feb-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	120			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	125			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	139	SGC		70-130 %			"	"	"	"	

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9021950 - SW846 5030 Water MS</b>										
<b>Blank (9021950-BLK1)</b>										
Prepared & Analyzed: 27-Feb-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0						
Acetone	BRL	U	µg/l	10.0						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9021950 - SW846 5030 Water MS</b>										
<b>Blank (9021950-BLK1)</b>										
Prepared & Analyzed: 27-Feb-09										
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	5.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						
Ethanol	BRL	U	µg/l	400						
<i>Surrogate: 4-Bromofluorobenzene</i>	28.0		µg/l		30.0		93	70-130		
<i>Surrogate: Toluene-d8</i>	30.6		µg/l		30.0		102	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	30.8		µg/l		30.0		103	70-130		
<i>Surrogate: Dibromofluoromethane</i>	30.2		µg/l		30.0		101	70-130		
<b>LCS (9021950-BS1)</b>										
Prepared & Analyzed: 27-Feb-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	27.0	QC1	µg/l		20.0		135	70-130		
Acetone	20.6		µg/l		20.0		103	45.7-161		
Acrylonitrile	20.4		µg/l		20.0		102	70-130		
Benzene	20.3		µg/l		20.0		101	70-130		
Bromobenzene	19.6		µg/l		20.0		98	70-130		
Bromochloromethane	21.0		µg/l		20.0		105	70-130		
Bromodichloromethane	20.2		µg/l		20.0		101	70-130		
Bromoform	22.3		µg/l		20.0		112	70-130		
Bromomethane	18.0		µg/l		20.0		90	39.7-172		
2-Butanone (MEK)	21.5		µg/l		20.0		107	50.8-149		
n-Butylbenzene	21.5		µg/l		20.0		107	70-130		
sec-Butylbenzene	20.4		µg/l		20.0		102	70-130		
tert-Butylbenzene	21.3		µg/l		20.0		106	70-130		
Carbon disulfide	20.5		µg/l		20.0		103	70-130		
Carbon tetrachloride	21.3		µg/l		20.0		106	70-130		
Chlorobenzene	20.1		µg/l		20.0		101	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9021950 - SW846 5030 Water MS</b>										
<b><u>LCS (9021950-BS1)</u></b>										
Prepared & Analyzed: 27-Feb-09										
Chloroethane	20.5		µg/l		20.0		103	70-136		
Chloroform	21.7		µg/l		20.0		108	70-130		
Chloromethane	20.2		µg/l		20.0		101	70-130		
2-Chlorotoluene	20.1		µg/l		20.0		100	70-130		
4-Chlorotoluene	21.4		µg/l		20.0		107	70-130		
1,2-Dibromo-3-chloropropane	18.2		µg/l		20.0		91	70-130		
Dibromochloromethane	20.0		µg/l		20.0		100	59.7-133		
1,2-Dibromoethane (EDB)	21.8		µg/l		20.0		109	70-130		
Dibromomethane	20.2		µg/l		20.0		101	70-130		
1,2-Dichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,3-Dichlorobenzene	20.8		µg/l		20.0		104	70-130		
1,4-Dichlorobenzene	20.1		µg/l		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	20.1		µg/l		20.0		100	43-134		
1,1-Dichloroethane	20.8		µg/l		20.0		104	70-130		
1,2-Dichloroethane	20.4		µg/l		20.0		102	70-130		
1,1-Dichloroethene	21.8		µg/l		20.0		109	70-130		
cis-1,2-Dichloroethene	21.3		µg/l		20.0		107	70-130		
trans-1,2-Dichloroethene	20.0		µg/l		20.0		100	70-130		
1,2-Dichloropropane	21.6		µg/l		20.0		108	70-130		
1,3-Dichloropropane	20.8		µg/l		20.0		104	70-130		
2,2-Dichloropropane	21.2		µg/l		20.0		106	70-130		
1,1-Dichloropropene	21.9		µg/l		20.0		110	70-130		
cis-1,3-Dichloropropene	22.1		µg/l		20.0		111	70-130		
trans-1,3-Dichloropropene	19.3		µg/l		20.0		96	70-130		
Ethylbenzene	20.1		µg/l		20.0		101	70-130		
Hexachlorobutadiene	18.6		µg/l		20.0		93	50.9-165		
2-Hexanone (MBK)	22.3		µg/l		20.0		111	70-130		
Isopropylbenzene	16.8		µg/l		20.0		84	70-130		
4-Isopropyltoluene	21.1		µg/l		20.0		106	70-130		
Methyl tert-butyl ether	20.7		µg/l		20.0		104	70-130		
4-Methyl-2-pentanone (MIBK)	21.5		µg/l		20.0		107	52.8-134		
Methylene chloride	19.3		µg/l		20.0		96	70-130		
Naphthalene	21.2		µg/l		20.0		106	70-130		
n-Propylbenzene	20.8		µg/l		20.0		104	70-130		
Styrene	20.8		µg/l		20.0		104	70-130		
1,1,1,2-Tetrachloroethane	19.6		µg/l		20.0		98	70-130		
1,1,2,2-Tetrachloroethane	21.7		µg/l		20.0		108	70-130		
Tetrachloroethene	22.1		µg/l		20.0		110	70-130		
Toluene	20.4		µg/l		20.0		102	70-130		
1,2,3-Trichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,2,4-Trichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,3,5-Trichlorobenzene	19.7		µg/l		20.0		99	70-130		
1,1,1-Trichloroethane	21.9		µg/l		20.0		110	70-130		
1,1,2-Trichloroethane	21.2		µg/l		20.0		106	70-130		
Trichloroethene	20.5		µg/l		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	23.0		µg/l		20.0		115	60-147		
1,2,3-Trichloropropane	22.7		µg/l		20.0		113	70-130		
1,2,4-Trimethylbenzene	20.4		µg/l		20.0		102	70-130		
1,3,5-Trimethylbenzene	20.5		µg/l		20.0		102	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9021950 - SW846 5030 Water MS</b>										
<b><u>LCS (9021950-BS1)</u></b>										
Prepared & Analyzed: 27-Feb-09										
Vinyl chloride	25.6		µg/l		20.0		128	70-130		
m,p-Xylene	42.0		µg/l		40.0		105	70-130		
o-Xylene	21.0		µg/l		20.0		105	70-130		
Tetrahydrofuran	21.3		µg/l		20.0		106	70-130		
Ethyl ether	21.1		µg/l		20.0		106	67.1-130		
Tert-amyl methyl ether	21.3		µg/l		20.0		107	70-130		
Ethyl tert-butyl ether	20.4		µg/l		20.0		102	70-130		
Di-isopropyl ether	19.8		µg/l		20.0		99	70-130		
Tert-Butanol / butyl alcohol	211		µg/l		200		105	70-130		
1,4-Dioxane	211		µg/l		200		105	56.4-130		
trans-1,4-Dichloro-2-butene	19.8		µg/l		20.0		99	70-130		
Ethanol	484		µg/l		400		121	70-130		
Surrogate: 4-Bromofluorobenzene	29.2		µg/l		30.0		97	70-130		
Surrogate: Toluene-d8	30.3		µg/l		30.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	30.6		µg/l		30.0		102	70-130		
Surrogate: Dibromofluoromethane	30.0		µg/l		30.0		100	70-130		
<b><u>LCS Dup (9021950-BSD1)</u></b>										
Prepared & Analyzed: 27-Feb-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	25.8		µg/l		20.0		129	70-130	5	25
Acetone	19.6		µg/l		20.0		98	45.7-161	5	50
Acrylonitrile	20.0		µg/l		20.0		100	70-130	2	25
Benzene	18.9		µg/l		20.0		94	70-130	7	25
Bromobenzene	18.8		µg/l		20.0		94	70-130	4	25
Bromochloromethane	20.1		µg/l		20.0		100	70-130	4	25
Bromodichloromethane	19.2		µg/l		20.0		96	70-130	5	25
Bromoform	22.0		µg/l		20.0		110	70-130	2	25
Bromomethane	18.2		µg/l		20.0		91	39.7-172	0.7	50
2-Butanone (MEK)	20.3		µg/l		20.0		102	50.8-149	5	50
n-Butylbenzene	21.4		µg/l		20.0		107	70-130	0.2	25
sec-Butylbenzene	19.7		µg/l		20.0		99	70-130	3	25
tert-Butylbenzene	21.4		µg/l		20.0		107	70-130	0.6	25
Carbon disulfide	19.5		µg/l		20.0		98	70-130	5	25
Carbon tetrachloride	19.8		µg/l		20.0		99	70-130	7	25
Chlorobenzene	19.4		µg/l		20.0		97	70-130	4	25
Chloroethane	19.7		µg/l		20.0		98	70-136	4	50
Chloroform	21.5		µg/l		20.0		108	70-130	0.7	25
Chloromethane	19.3		µg/l		20.0		96	70-130	5	25
2-Chlorotoluene	20.4		µg/l		20.0		102	70-130	2	25
4-Chlorotoluene	20.8		µg/l		20.0		104	70-130	3	25
1,2-Dibromo-3-chloropropane	16.8		µg/l		20.0		84	70-130	8	25
Dibromochloromethane	18.8		µg/l		20.0		94	59.7-133	6	50
1,2-Dibromoethane (EDB)	21.3		µg/l		20.0		107	70-130	2	25
Dibromomethane	20.1		µg/l		20.0		100	70-130	0.8	25
1,2-Dichlorobenzene	19.8		µg/l		20.0		99	70-130	4	25
1,3-Dichlorobenzene	20.2		µg/l		20.0		101	70-130	3	25
1,4-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	0.6	25
Dichlorodifluoromethane (Freon12)	20.2		µg/l		20.0		101	43-134	0.7	50
1,1-Dichloroethane	20.2		µg/l		20.0		101	70-130	3	25
1,2-Dichloroethane	19.8		µg/l		20.0		99	70-130	3	25
1,1-Dichloroethene	21.0		µg/l		20.0		105	70-130	3	25

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9021950 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9021950-BSD1)</u></b>										
Prepared & Analyzed: 27-Feb-09										
cis-1,2-Dichloroethene	21.1		µg/l		20.0		106	70-130	0.9	25
trans-1,2-Dichloroethene	20.5		µg/l		20.0		103	70-130	3	25
1,2-Dichloropropane	20.6		µg/l		20.0		103	70-130	5	25
1,3-Dichloropropane	20.1		µg/l		20.0		100	70-130	4	25
2,2-Dichloropropane	20.2		µg/l		20.0		101	70-130	5	25
1,1-Dichloropropane	21.1		µg/l		20.0		105	70-130	4	25
cis-1,3-Dichloropropene	21.7		µg/l		20.0		108	70-130	2	25
trans-1,3-Dichloropropene	18.0		µg/l		20.0		90	70-130	7	25
Ethylbenzene	19.8		µg/l		20.0		99	70-130	2	25
Hexachlorobutadiene	17.6		µg/l		20.0		88	50.9-165	6	50
2-Hexanone (MBK)	21.2		µg/l		20.0		106	70-130	5	25
Isopropylbenzene	16.9		µg/l		20.0		84	70-130	0.5	25
4-Isopropyltoluene	21.1		µg/l		20.0		105	70-130	0.1	25
Methyl tert-butyl ether	20.5		µg/l		20.0		102	70-130	1	25
4-Methyl-2-pentanone (MIBK)	20.1		µg/l		20.0		100	52.8-134	7	50
Methylene chloride	19.3		µg/l		20.0		96	70-130	0	25
Naphthalene	19.9		µg/l		20.0		99	70-130	6	25
n-Propylbenzene	20.4		µg/l		20.0		102	70-130	2	25
Styrene	20.6		µg/l		20.0		103	70-130	0.8	25
1,1,1,2-Tetrachloroethane	18.9		µg/l		20.0		95	70-130	4	25
1,1,2,2-Tetrachloroethane	20.8		µg/l		20.0		104	70-130	4	25
Tetrachloroethene	21.2		µg/l		20.0		106	70-130	4	25
Toluene	19.4		µg/l		20.0		97	70-130	5	25
1,2,3-Trichlorobenzene	20.9		µg/l		20.0		104	70-130	1	25
1,2,4-Trichlorobenzene	19.9		µg/l		20.0		100	70-130	3	25
1,3,5-Trichlorobenzene	19.0		µg/l		20.0		95	70-130	4	25
1,1,1-Trichloroethane	20.2		µg/l		20.0		101	70-130	8	25
1,1,2-Trichloroethane	20.3		µg/l		20.0		102	70-130	4	25
Trichloroethene	19.8		µg/l		20.0		99	70-130	3	25
Trichlorofluoromethane (Freon 11)	22.6		µg/l		20.0		113	60-147	2	50
1,2,3-Trichloropropane	22.3		µg/l		20.0		111	70-130	2	25
1,2,4-Trimethylbenzene	20.8		µg/l		20.0		104	70-130	1	25
1,3,5-Trimethylbenzene	20.2		µg/l		20.0		101	70-130	2	25
Vinyl chloride	23.7		µg/l		20.0		118	70-130	8	25
m,p-Xylene	40.2		µg/l		40.0		101	70-130	4	25
o-Xylene	20.6		µg/l		20.0		103	70-130	2	25
Tetrahydrofuran	20.6		µg/l		20.0		103	70-130	3	25
Ethyl ether	20.0		µg/l		20.0		100	67.1-130	5	50
Tert-amyl methyl ether	20.2		µg/l		20.0		101	70-130	5	25
Ethyl tert-butyl ether	20.3		µg/l		20.0		102	70-130	0.2	25
Di-isopropyl ether	19.3		µg/l		20.0		96	70-130	3	25
Tert-Butanol / butyl alcohol	203		µg/l		200		101	70-130	4	25
1,4-Dioxane	213		µg/l		200		106	56.4-130	1	25
trans-1,4-Dichloro-2-butene	19.2		µg/l		20.0		96	70-130	3	25
Ethanol	436		µg/l		400		109	70-130	11	30
Surrogate: 4-Bromofluorobenzene	29.2		µg/l		30.0		97	70-130		
Surrogate: Toluene-d8	30.3		µg/l		30.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	30.8		µg/l		30.0		103	70-130		
Surrogate: Dibromofluoromethane	30.6		µg/l		30.0		102	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	Limit
<b>Batch 9021950 - SW846 5030 Water MS</b>									
<b>Matrix Spike (9021950-MS1)</b>		<b>Source: SA91304-02</b>							
Prepared & Analyzed: 27-Feb-09									
Benzene	17.5		µg/l		20.0	BRL	88 70-130		
Chlorobenzene	19.2		µg/l		20.0	BRL	96 70-130		
1,1-Dichloroethene	17.4		µg/l		20.0	BRL	87 70-130		
Toluene	18.2		µg/l		20.0	BRL	91 70-130		
Trichloroethene	19.6		µg/l		20.0	0.6	95 70-130		
Surrogate: 4-Bromofluorobenzene	28.5		µg/l		30.0		95 70-130		
Surrogate: Toluene-d8	30.1		µg/l		30.0		100 70-130		
Surrogate: 1,2-Dichloroethane-d4	30.6		µg/l		30.0		102 70-130		
Surrogate: Dibromofluoromethane	29.8		µg/l		30.0		99 70-130		
<b>Matrix Spike Dup (9021950-MSD1)</b>		<b>Source: SA91304-02</b>							
Prepared & Analyzed: 27-Feb-09									
Benzene	15.2		µg/l		20.0	BRL	76 70-130	14	30
Chlorobenzene	16.2		µg/l		20.0	BRL	81 70-130	17	30
1,1-Dichloroethene	14.4		µg/l		20.0	BRL	72 70-130	19	30
Toluene	15.7		µg/l		20.0	BRL	79 70-130	14	30
Trichloroethene	15.9		µg/l		20.0	0.6	77 70-130	22	30
Surrogate: 4-Bromofluorobenzene	28.7		µg/l		30.0		96 70-130		
Surrogate: Toluene-d8	30.7		µg/l		30.0		102 70-130		
Surrogate: 1,2-Dichloroethane-d4	31.2		µg/l		30.0		104 70-130		
Surrogate: Dibromofluoromethane	30.0		µg/l		30.0		100 70-130		
<b>Batch 9030309 - SW846 5030 Water MS</b>									
<b>Blank (9030309-BLK1)</b>									
Prepared & Analyzed: 06-Mar-09									
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0					
Acetone	BRL	U	µg/l	10.0					
Acrylonitrile	BRL	U	µg/l	0.5					
Benzene	BRL	U	µg/l	1.0					
Bromobenzene	BRL	U	µg/l	1.0					
Bromochloromethane	BRL	U	µg/l	1.0					
Bromodichloromethane	BRL	U	µg/l	0.5					
Bromoform	BRL	U	µg/l	1.0					
Bromomethane	BRL	U	µg/l	2.0					
2-Butanone (MEK)	BRL	U	µg/l	10.0					
n-Butylbenzene	BRL	U	µg/l	1.0					
sec-Butylbenzene	BRL	U	µg/l	1.0					
tert-Butylbenzene	BRL	U	µg/l	1.0					
Carbon disulfide	BRL	U	µg/l	5.0					
Carbon tetrachloride	BRL	U	µg/l	1.0					
Chlorobenzene	BRL	U	µg/l	1.0					
Chloroethane	BRL	U	µg/l	2.0					
Chloroform	BRL	U	µg/l	1.0					
Chloromethane	BRL	U	µg/l	2.0					
2-Chlorotoluene	BRL	U	µg/l	1.0					
4-Chlorotoluene	BRL	U	µg/l	1.0					
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0					
Dibromochloromethane	BRL	U	µg/l	0.5					
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5					
Dibromomethane	BRL	U	µg/l	1.0					
1,2-Dichlorobenzene	BRL	U	µg/l	1.0					
1,3-Dichlorobenzene	BRL	U	µg/l	1.0					

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030309 - SW846 5030 Water MS</b>										
<b>Blank (9030309-BLK1)</b>										
Prepared & Analyzed: 06-Mar-09										
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	5.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
<b>Batch 9030309 - SW846 5030 Water MS</b>									
<b><u>Blank (9030309-BLK1)</u></b>									
Prepared & Analyzed: 06-Mar-09									
Ethanol	BRL	U	µg/l	400					
Surrogate: 4-Bromofluorobenzene	42.3		µg/l		50.0		85 70-130		
Surrogate: Toluene-d8	51.2		µg/l		50.0		102 70-130		
Surrogate: 1,2-Dichloroethane-d4	50.0		µg/l		50.0		100 70-130		
Surrogate: Dibromofluoromethane	54.0		µg/l		50.0		108 70-130		
<b><u>LCS (9030309-BS1)</u></b>									
Prepared & Analyzed: 06-Mar-09									
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.7		µg/l		20.0		113 70-130		
Acetone	18.2		µg/l		20.0		91 45.7-161		
Acrylonitrile	20.2		µg/l		20.0		101 70-130		
Benzene	18.5		µg/l		20.0		93 70-130		
Bromobenzene	18.6		µg/l		20.0		93 70-130		
Bromochloromethane	20.0		µg/l		20.0		100 70-130		
Bromodichloromethane	20.2		µg/l		20.0		101 70-130		
Bromoform	18.7		µg/l		20.0		93 70-130		
Bromomethane	20.9		µg/l		20.0		105 39.7-172		
2-Butanone (MEK)	16.9		µg/l		20.0		84 50.8-149		
n-Butylbenzene	18.0		µg/l		20.0		90 70-130		
sec-Butylbenzene	17.7		µg/l		20.0		88 70-130		
tert-Butylbenzene	17.2		µg/l		20.0		86 70-130		
Carbon disulfide	19.3		µg/l		20.0		96 70-130		
Carbon tetrachloride	20.5		µg/l		20.0		102 70-130		
Chlorobenzene	19.3		µg/l		20.0		96 70-130		
Chloroethane	18.3		µg/l		20.0		91 70-136		
Chloroform	18.9		µg/l		20.0		94 70-130		
Chloromethane	18.2		µg/l		20.0		91 70-130		
2-Chlorotoluene	19.4		µg/l		20.0		97 70-130		
4-Chlorotoluene	18.8		µg/l		20.0		94 70-130		
1,2-Dibromo-3-chloropropane	17.2		µg/l		20.0		86 70-130		
Dibromochloromethane	19.1		µg/l		20.0		95 59.7-133		
1,2-Dibromoethane (EDB)	20.3		µg/l		20.0		102 70-130		
Dibromomethane	18.8		µg/l		20.0		94 70-130		
1,2-Dichlorobenzene	20.9		µg/l		20.0		104 70-130		
1,3-Dichlorobenzene	21.0		µg/l		20.0		105 70-130		
1,4-Dichlorobenzene	19.6		µg/l		20.0		98 70-130		
Dichlorodifluoromethane (Freon12)	17.8		µg/l		20.0		89 43-134		
1,1-Dichloroethane	23.3		µg/l		20.0		116 70-130		
1,2-Dichloroethane	18.8		µg/l		20.0		94 70-130		
1,1-Dichloroethene	21.3		µg/l		20.0		106 70-130		
cis-1,2-Dichloroethene	20.1		µg/l		20.0		100 70-130		
trans-1,2-Dichloroethene	16.9		µg/l		20.0		84 70-130		
1,2-Dichloropropane	18.9		µg/l		20.0		95 70-130		
1,3-Dichloropropane	20.1		µg/l		20.0		100 70-130		
2,2-Dichloropropane	13.6	QC1	µg/l		20.0		68 70-130		
1,1-Dichloropropene	18.8		µg/l		20.0		94 70-130		
cis-1,3-Dichloropropene	19.5		µg/l		20.0		97 70-130		
trans-1,3-Dichloropropene	18.4		µg/l		20.0		92 70-130		
Ethylbenzene	17.6		µg/l		20.0		88 70-130		
Hexachlorobutadiene	21.8		µg/l		20.0		109 50.9-165		
2-Hexanone (MBK)	21.3		µg/l		20.0		106 70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030309 - SW846 5030 Water MS</b>										
<b><u>LCS (9030309-BS1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
Isopropylbenzene	16.6		µg/l		20.0		83	70-130		
4-Isopropyltoluene	18.1		µg/l		20.0		90	70-130		
Methyl tert-butyl ether	19.0		µg/l		20.0		95	70-130		
4-Methyl-2-pentanone (MIBK)	15.6		µg/l		20.0		78	52.8-134		
Methylene chloride	19.8		µg/l		20.0		99	70-130		
Naphthalene	14.9		µg/l		20.0		74	70-130		
n-Propylbenzene	16.2		µg/l		20.0		81	70-130		
Styrene	15.8		µg/l		20.0		79	70-130		
1,1,1,2-Tetrachloroethane	19.4		µg/l		20.0		97	70-130		
1,1,2,2-Tetrachloroethane	19.2		µg/l		20.0		96	70-130		
Tetrachloroethene	20.9		µg/l		20.0		105	70-130		
Toluene	20.0		µg/l		20.0		100	70-130		
1,2,3-Trichlorobenzene	19.2		µg/l		20.0		96	70-130		
1,2,4-Trichlorobenzene	16.2		µg/l		20.0		81	70-130		
1,3,5-Trichlorobenzene	19.9		µg/l		20.0		100	70-130		
1,1,1-Trichloroethane	18.9		µg/l		20.0		94	70-130		
1,1,2-Trichloroethane	20.6		µg/l		20.0		103	70-130		
Trichloroethene	21.0		µg/l		20.0		105	70-130		
Trichlorofluoromethane (Freon 11)	22.5		µg/l		20.0		112	60-147		
1,2,3-Trichloropropane	19.9		µg/l		20.0		99	70-130		
1,2,4-Trimethylbenzene	16.5		µg/l		20.0		83	70-130		
1,3,5-Trimethylbenzene	16.2		µg/l		20.0		81	70-130		
Vinyl chloride	19.1		µg/l		20.0		95	70-130		
m,p-Xylene	36.6		µg/l		40.0		92	70-130		
o-Xylene	18.8		µg/l		20.0		94	70-130		
Tetrahydrofuran	18.6		µg/l		20.0		93	70-130		
Ethyl ether	19.7		µg/l		20.0		98	67.1-130		
Tert-amyl methyl ether	18.8		µg/l		20.0		94	70-130		
Ethyl tert-butyl ether	20.0		µg/l		20.0		100	70-130		
Di-isopropyl ether	18.2		µg/l		20.0		91	70-130		
Tert-Butanol / butyl alcohol	170		µg/l		200		85	70-130		
1,4-Dioxane	171		µg/l		200		86	56.4-130		
trans-1,4-Dichloro-2-butene	16.6		µg/l		20.0		83	70-130		
Ethanol	360		µg/l		400		90	70-130		
Surrogate: 4-Bromofluorobenzene	50.6		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	53.4		µg/l		50.0		107	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.9		µg/l		50.0		96	70-130		
Surrogate: Dibromofluoromethane	52.3		µg/l		50.0		105	70-130		
<b><u>LCS Dup (9030309-BSD1)</u></b>										
QM10										
Prepared & Analyzed: 06-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.3		µg/l		20.0		121	70-130	7	25
Acetone	17.8		µg/l		20.0		89	45.7-161	2	50
Acrylonitrile	20.1		µg/l		20.0		100	70-130	0.7	25
Benzene	17.5		µg/l		20.0		87	70-130	6	25
Bromobenzene	20.4		µg/l		20.0		102	70-130	9	25
Bromochloromethane	20.0		µg/l		20.0		100	70-130	0.4	25
Bromodichloromethane	20.8		µg/l		20.0		104	70-130	3	25
Bromoform	19.1		µg/l		20.0		96	70-130	2	25
Bromomethane	20.7		µg/l		20.0		104	39.7-172	1	50
2-Butanone (MEK)	17.9		µg/l		20.0		90	50.8-149	6	50

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030309 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9030309-BSD1)</u></b>										
			QM10							
Prepared & Analyzed: 06-Mar-09										
n-Butylbenzene	17.4		µg/l		20.0		87	70-130	3	25
sec-Butylbenzene	17.9		µg/l		20.0		89	70-130	1	25
tert-Butylbenzene	18.1		µg/l		20.0		90	70-130	5	25
Carbon disulfide	22.6		µg/l		20.0		113	70-130	16	25
Carbon tetrachloride	19.8		µg/l		20.0		99	70-130	4	25
Chlorobenzene	19.0		µg/l		20.0		95	70-130	1	25
Chloroethane	17.9		µg/l		20.0		90	70-136	2	50
Chloroform	19.4		µg/l		20.0		97	70-130	3	25
Chloromethane	17.8		µg/l		20.0		89	70-130	2	25
2-Chlorotoluene	19.6		µg/l		20.0		98	70-130	0.7	25
4-Chlorotoluene	19.4		µg/l		20.0		97	70-130	3	25
1,2-Dibromo-3-chloropropane	17.3		µg/l		20.0		87	70-130	0.7	25
Dibromochloromethane	19.2		µg/l		20.0		96	59.7-133	0.4	50
1,2-Dibromoethane (EDB)	20.1		µg/l		20.0		101	70-130	1	25
Dibromomethane	18.9		µg/l		20.0		94	70-130	0.4	25
1,2-Dichlorobenzene	20.6		µg/l		20.0		103	70-130	1	25
1,3-Dichlorobenzene	21.5		µg/l		20.0		108	70-130	2	25
1,4-Dichlorobenzene	19.3		µg/l		20.0		96	70-130	2	25
Dichlorodifluoromethane (Freon12)	18.7		µg/l		20.0		94	43-134	5	50
1,1-Dichloroethane	22.2		µg/l		20.0		111	70-130	5	25
1,2-Dichloroethane	19.0		µg/l		20.0		95	70-130	1	25
1,1-Dichloroethene	21.5		µg/l		20.0		107	70-130	1	25
cis-1,2-Dichloroethene	20.0		µg/l		20.0		100	70-130	0.6	25
trans-1,2-Dichloroethene	17.0		µg/l		20.0		85	70-130	0.5	25
1,2-Dichloropropane	19.2		µg/l		20.0		96	70-130	1	25
1,3-Dichloropropane	20.2		µg/l		20.0		101	70-130	0.8	25
2,2-Dichloropropane	19.1	QR5	µg/l		20.0		95	70-130	33	25
1,1-Dichloropropene	17.9		µg/l		20.0		90	70-130	5	25
cis-1,3-Dichloropropene	19.6		µg/l		20.0		98	70-130	0.6	25
trans-1,3-Dichloropropene	19.2		µg/l		20.0		96	70-130	5	25
Ethylbenzene	17.6		µg/l		20.0		88	70-130	0.2	25
Hexachlorobutadiene	21.4		µg/l		20.0		107	50.9-165	2	50
2-Hexanone (MBK)	21.0		µg/l		20.0		105	70-130	1	25
Isopropylbenzene	16.5		µg/l		20.0		83	70-130	0.6	25
4-Isopropyltoluene	17.9		µg/l		20.0		90	70-130	0.9	25
Methyl tert-butyl ether	19.5		µg/l		20.0		98	70-130	3	25
4-Methyl-2-pentanone (MIBK)	15.2		µg/l		20.0		76	52.8-134	3	50
Methylene chloride	21.4		µg/l		20.0		107	70-130	8	25
Naphthalene	12.8	QC1	µg/l		20.0		64	70-130	15	25
n-Propylbenzene	16.2		µg/l		20.0		81	70-130	0.2	25
Styrene	16.1		µg/l		20.0		81	70-130	2	25
1,1,1,2-Tetrachloroethane	19.6		µg/l		20.0		98	70-130	1	25
1,1,2,2-Tetrachloroethane	19.2		µg/l		20.0		96	70-130	0.2	25
Tetrachloroethene	20.2		µg/l		20.0		101	70-130	3	25
Toluene	19.6		µg/l		20.0		98	70-130	2	25
1,2,3-Trichlorobenzene	18.0		µg/l		20.0		90	70-130	7	25
1,2,4-Trichlorobenzene	15.6		µg/l		20.0		78	70-130	4	25
1,3,5-Trichlorobenzene	19.0		µg/l		20.0		95	70-130	5	25
1,1,1-Trichloroethane	18.7		µg/l		20.0		94	70-130	0.7	25

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### Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch 9030309 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9030309-BSD1)</u></b>			QM10							
Prepared & Analyzed: 06-Mar-09										
1,1,2-Trichloroethane	20.2		µg/l		20.0		101	70-130	2	25
Trichloroethene	20.2		µg/l		20.0		101	70-130	4	25
Trichlorofluoromethane (Freon 11)	23.0		µg/l		20.0		115	60-147	2	50
1,2,3-Trichloropropane	21.7		µg/l		20.0		109	70-130	9	25
1,2,4-Trimethylbenzene	16.9		µg/l		20.0		84	70-130	2	25
1,3,5-Trimethylbenzene	16.6		µg/l		20.0		83	70-130	2	25
Vinyl chloride	18.8		µg/l		20.0		94	70-130	1	25
m,p-Xylene	36.5		µg/l		40.0		91	70-130	0.4	25
o-Xylene	18.2		µg/l		20.0		91	70-130	3	25
Tetrahydrofuran	18.5		µg/l		20.0		92	70-130	0.7	25
Ethyl ether	19.2		µg/l		20.0		96	67.1-130	3	50
Tert-amyl methyl ether	19.9		µg/l		20.0		99	70-130	6	25
Ethyl tert-butyl ether	19.8		µg/l		20.0		99	70-130	1	25
Di-isopropyl ether	18.1		µg/l		20.0		90	70-130	0.7	25
Tert-Butanol / butyl alcohol	173		µg/l		200		87	70-130	2	25
1,4-Dioxane	169		µg/l		200		84	56.4-130	2	25
trans-1,4-Dichloro-2-butene	19.5		µg/l		20.0		97	70-130	16	25
Ethanol	390		µg/l		400		97	70-130	8	30
Surrogate: 4-Bromofluorobenzene	52.1		µg/l		50.0		104	70-130		
Surrogate: Toluene-d8	53.4		µg/l		50.0		107	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.5		µg/l		50.0		97	70-130		
Surrogate: Dibromofluoromethane	53.4		µg/l		50.0		107	70-130		
<b><u>Matrix Spike (9030309-MS1)</u></b>			Source: SA91683-04							
Prepared & Analyzed: 06-Mar-09										
Benzene	18.2		µg/l		20.0	BRL	91	70-130		
Chlorobenzene	22.6		µg/l		20.0	BRL	113	70-130		
1,1-Dichloroethene	1.4	QM7	µg/l		20.0	BRL	7	70-130		
Toluene	30.2	QM7	µg/l		20.0	2.1	140	70-130		
Trichloroethene	23.4		µg/l		20.0	BRL	117	70-130		
Surrogate: 4-Bromofluorobenzene	45.5		µg/l		50.0		91	70-130		
Surrogate: Toluene-d8	58.1		µg/l		50.0		116	70-130		
Surrogate: 1,2-Dichloroethane-d4	59.8		µg/l		50.0		120	70-130		
Surrogate: Dibromofluoromethane	65.5	SGC	µg/l		50.0		131	70-130		
<b>Batch 9030422 - SW846 5030 Water MS</b>										
<b><u>Blank (9030422-BLK1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0						
Acetone	BRL	U	µg/l	10.0						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030422 - SW846 5030 Water MS</b>										
<b>Blank (9030422-BLK1)</b>										
Prepared & Analyzed: 06-Mar-09										
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030422 - SW846 5030 Water MS</b>										
<b><u>Blank (9030422-BLK1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	10.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						
Ethanol	BRL	U	µg/l	400						
<i>Surrogate: 4-Bromofluorobenzene</i>	44.3		µg/l		50.0		89	70-130		
<i>Surrogate: Toluene-d8</i>	54.1		µg/l		50.0		108	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	54.5		µg/l		50.0		109	70-130		
<i>Surrogate: Dibromofluoromethane</i>	60.2		µg/l		50.0		120	70-130		
<b><u>LCS (9030422-BS1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	25.0		µg/l		20.0		125	70-130		
Acetone	17.2		µg/l		20.0		86	45.7-161		
Acrylonitrile	21.0		µg/l		20.0		105	70-130		
Benzene	18.2		µg/l		20.0		91	70-130		
Bromobenzene	18.7		µg/l		20.0		94	70-130		
Bromochloromethane	21.4		µg/l		20.0		107	70-130		
Bromodichloromethane	21.3		µg/l		20.0		107	70-130		
Bromoform	17.9		µg/l		20.0		89	70-130		
Bromomethane	22.5		µg/l		20.0		112	39.7-172		
2-Butanone (MEK)	19.1		µg/l		20.0		95	50.8-149		
n-Butylbenzene	18.0		µg/l		20.0		90	70-130		
sec-Butylbenzene	17.8		µg/l		20.0		89	70-130		
tert-Butylbenzene	17.6		µg/l		20.0		88	70-130		
Carbon disulfide	24.0		µg/l		20.0		120	70-130		
Carbon tetrachloride	21.0		µg/l		20.0		105	70-130		
Chlorobenzene	19.2		µg/l		20.0		96	70-130		
Chloroethane	18.8		µg/l		20.0		94	70-136		
Chloroform	20.6		µg/l		20.0		103	70-130		
Chloromethane	17.9		µg/l		20.0		90	70-130		
2-Chlorotoluene	19.0		µg/l		20.0		95	70-130		
4-Chlorotoluene	18.7		µg/l		20.0		94	70-130		
1,2-Dibromo-3-chloropropane	17.7		µg/l		20.0		89	70-130		
Dibromochloromethane	19.9		µg/l		20.0		100	59.7-133		
1,2-Dibromoethane (EDB)	20.9		µg/l		20.0		105	70-130		
Dibromomethane	19.3		µg/l		20.0		97	70-130		
1,2-Dichlorobenzene	20.4		µg/l		20.0		102	70-130		
1,3-Dichlorobenzene	20.4		µg/l		20.0		102	70-130		
1,4-Dichlorobenzene	19.8		µg/l		20.0		99	70-130		
Dichlorodifluoromethane (Freon12)	20.3		µg/l		20.0		102	43-134		
1,1-Dichloroethane	24.1		µg/l		20.0		120	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030422 - SW846 5030 Water MS</b>										
<b><u>LCS (9030422-BS1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
1,2-Dichloroethane	19.6		µg/l		20.0		98	70-130		
1,1-Dichloroethene	22.9		µg/l		20.0		114	70-130		
cis-1,2-Dichloroethene	21.0		µg/l		20.0		105	70-130		
trans-1,2-Dichloroethene	19.1		µg/l		20.0		96	70-130		
1,2-Dichloropropane	18.4		µg/l		20.0		92	70-130		
1,3-Dichloropropane	21.9		µg/l		20.0		110	70-130		
2,2-Dichloropropane	19.4		µg/l		20.0		97	70-130		
1,1-Dichloropropene	18.0		µg/l		20.0		90	70-130		
cis-1,3-Dichloropropene	19.9		µg/l		20.0		100	70-130		
trans-1,3-Dichloropropene	20.3		µg/l		20.0		102	70-130		
Ethylbenzene	18.1		µg/l		20.0		90	70-130		
Hexachlorobutadiene	23.7		µg/l		20.0		119	50.9-165		
2-Hexanone (MBK)	20.0		µg/l		20.0		100	70-130		
Isopropylbenzene	16.3		µg/l		20.0		82	70-130		
4-Isopropyltoluene	18.5		µg/l		20.0		92	70-130		
Methyl tert-butyl ether	18.5		µg/l		20.0		92	70-130		
4-Methyl-2-pentanone (MIBK)	16.0		µg/l		20.0		80	52.8-134		
Methylene chloride	20.1		µg/l		20.0		100	70-130		
Naphthalene	14.2		µg/l		20.0		71	70-130		
n-Propylbenzene	15.8		µg/l		20.0		79	70-130		
Styrene	15.5		µg/l		20.0		78	70-130		
1,1,1,2-Tetrachloroethane	19.8		µg/l		20.0		99	70-130		
1,1,2,2-Tetrachloroethane	18.4		µg/l		20.0		92	70-130		
Tetrachloroethene	22.2		µg/l		20.0		111	70-130		
Toluene	19.8		µg/l		20.0		99	70-130		
1,2,3-Trichlorobenzene	19.2		µg/l		20.0		96	70-130		
1,2,4-Trichlorobenzene	16.2		µg/l		20.0		81	70-130		
1,3,5-Trichlorobenzene	20.3		µg/l		20.0		101	70-130		
1,1,1-Trichloroethane	19.4		µg/l		20.0		97	70-130		
1,1,2-Trichloroethane	21.8		µg/l		20.0		109	70-130		
Trichloroethene	20.5		µg/l		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	24.5		µg/l		20.0		123	60-147		
1,2,3-Trichloropropane	19.8		µg/l		20.0		99	70-130		
1,2,4-Trimethylbenzene	16.5		µg/l		20.0		83	70-130		
1,3,5-Trimethylbenzene	16.2		µg/l		20.0		81	70-130		
Vinyl chloride	21.5		µg/l		20.0		107	70-130		
m,p-Xylene	35.6		µg/l		40.0		89	70-130		
o-Xylene	18.7		µg/l		20.0		93	70-130		
Tetrahydrofuran	18.9		µg/l		20.0		95	70-130		
Ethyl ether	19.8		µg/l		20.0		99	67.1-130		
Tert-amyl methyl ether	19.9		µg/l		20.0		100	70-130		
Ethyl tert-butyl ether	18.3		µg/l		20.0		92	70-130		
Di-isopropyl ether	18.6		µg/l		20.0		93	70-130		
Tert-Butanol / butyl alcohol	160		µg/l		200		80	70-130		
1,4-Dioxane	174		µg/l		200		87	56.4-130		
trans-1,4-Dichloro-2-butene	19.0		µg/l		20.0		95	70-130		
Ethanol	384		µg/l		400		96	70-130		
Surrogate: 4-Bromofluorobenzene	49.5		µg/l		50.0		99	70-130		
Surrogate: Toluene-d8	56.0		µg/l		50.0		112	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.6		µg/l		50.0		101	70-130		

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030422 - SW846 5030 Water MS</b>										
<b><u>LCS (9030422-BS1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
Surrogate: Dibromofluoromethane	54.1		µg/l		50.0		108	70-130		
<b><u>LCS Dup (9030422-BSD1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.7		µg/l		20.0		118	70-130	5	25
Acetone	15.4		µg/l		20.0		77	45.7-161	11	50
Acrylonitrile	18.8		µg/l		20.0		94	70-130	11	25
Benzene	16.6		µg/l		20.0		83	70-130	9	25
Bromobenzene	17.9		µg/l		20.0		89	70-130	4	25
Bromochloromethane	19.3		µg/l		20.0		96	70-130	11	25
Bromodichloromethane	20.0		µg/l		20.0		100	70-130	6	25
Bromoform	16.9		µg/l		20.0		85	70-130	5	25
Bromomethane	20.1		µg/l		20.0		100	39.7-172	11	50
2-Butanone (MEK)	18.8		µg/l		20.0		94	50.8-149	2	50
n-Butylbenzene	16.0		µg/l		20.0		80	70-130	12	25
sec-Butylbenzene	16.3		µg/l		20.0		81	70-130	9	25
tert-Butylbenzene	15.6		µg/l		20.0		78	70-130	12	25
Carbon disulfide	21.2		µg/l		20.0		106	70-130	12	25
Carbon tetrachloride	19.4		µg/l		20.0		97	70-130	8	25
Chlorobenzene	17.8		µg/l		20.0		89	70-130	8	25
Chloroethane	16.4		µg/l		20.0		82	70-136	13	50
Chloroform	18.7		µg/l		20.0		94	70-130	9	25
Chloromethane	16.6		µg/l		20.0		83	70-130	8	25
2-Chlorotoluene	17.6		µg/l		20.0		88	70-130	7	25
4-Chlorotoluene	17.2		µg/l		20.0		86	70-130	8	25
1,2-Dibromo-3-chloropropane	17.8		µg/l		20.0		89	70-130	0.2	25
Dibromochloromethane	18.6		µg/l		20.0		93	59.7-133	7	50
1,2-Dibromoethane (EDB)	19.8		µg/l		20.0		99	70-130	6	25
Dibromomethane	19.6		µg/l		20.0		98	70-130	1	25
1,2-Dichlorobenzene	19.5		µg/l		20.0		98	70-130	4	25
1,3-Dichlorobenzene	18.6		µg/l		20.0		93	70-130	9	25
1,4-Dichlorobenzene	18.0		µg/l		20.0		90	70-130	9	25
Dichlorodifluoromethane (Freon12)	16.8		µg/l		20.0		84	43-134	19	50
1,1-Dichloroethane	22.1		µg/l		20.0		110	70-130	9	25
1,2-Dichloroethane	18.7		µg/l		20.0		93	70-130	5	25
1,1-Dichloroethene	19.7		µg/l		20.0		98	70-130	15	25
cis-1,2-Dichloroethene	19.6		µg/l		20.0		98	70-130	7	25
trans-1,2-Dichloroethene	17.6		µg/l		20.0		88	70-130	8	25
1,2-Dichloropropane	17.9		µg/l		20.0		90	70-130	3	25
1,3-Dichloropropane	19.5		µg/l		20.0		98	70-130	12	25
2,2-Dichloropropane	17.4		µg/l		20.0		87	70-130	11	25
1,1-Dichloropropene	16.5		µg/l		20.0		82	70-130	9	25
cis-1,3-Dichloropropene	19.1		µg/l		20.0		96	70-130	4	25
trans-1,3-Dichloropropene	18.5		µg/l		20.0		92	70-130	9	25
Ethylbenzene	16.7		µg/l		20.0		83	70-130	8	25
Hexachlorobutadiene	22.0		µg/l		20.0		110	50.9-165	8	50
2-Hexanone (MBK)	21.1		µg/l		20.0		105	70-130	5	25
Isopropylbenzene	15.5		µg/l		20.0		78	70-130	5	25
4-Isopropyltoluene	16.7		µg/l		20.0		84	70-130	10	25
Methyl tert-butyl ether	17.9		µg/l		20.0		90	70-130	3	25

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030422 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9030422-BSD1)</u></b>										
Prepared & Analyzed: 06-Mar-09										
4-Methyl-2-pentanone (MIBK)	16.2		µg/l		20.0		81	52.8-134	1	50
Methylene chloride	19.4		µg/l		20.0		97	70-130	4	25
Naphthalene	12.6	QC1	µg/l		20.0		63	70-130	12	25
n-Propylbenzene	14.7		µg/l		20.0		74	70-130	7	25
Styrene	14.5		µg/l		20.0		72	70-130	7	25
1,1,1,2-Tetrachloroethane	18.4		µg/l		20.0		92	70-130	7	25
1,1,2,2-Tetrachloroethane	17.8		µg/l		20.0		89	70-130	4	25
Tetrachloroethene	20.6		µg/l		20.0		103	70-130	8	25
Toluene	18.8		µg/l		20.0		94	70-130	6	25
1,2,3-Trichlorobenzene	19.3		µg/l		20.0		96	70-130	0.05	25
1,2,4-Trichlorobenzene	15.0		µg/l		20.0		75	70-130	8	25
1,3,5-Trichlorobenzene	18.2		µg/l		20.0		91	70-130	11	25
1,1,1-Trichloroethane	18.4		µg/l		20.0		92	70-130	6	25
1,1,2-Trichloroethane	19.6		µg/l		20.0		98	70-130	11	25
Trichloroethene	19.4		µg/l		20.0		97	70-130	5	25
Trichlorofluoromethane (Freon 11)	22.0		µg/l		20.0		110	60-147	11	50
1,2,3-Trichloropropane	18.8		µg/l		20.0		94	70-130	5	25
1,2,4-Trimethylbenzene	14.8		µg/l		20.0		74	70-130	11	25
1,3,5-Trimethylbenzene	15.1		µg/l		20.0		76	70-130	7	25
Vinyl chloride	18.2		µg/l		20.0		91	70-130	17	25
m,p-Xylene	34.0		µg/l		40.0		85	70-130	5	25
o-Xylene	17.8		µg/l		20.0		89	70-130	5	25
Tetrahydrofuran	18.7		µg/l		20.0		94	70-130	1	25
Ethyl ether	18.8		µg/l		20.0		94	67.1-130	5	50
Tert-amyl methyl ether	19.0		µg/l		20.0		95	70-130	5	25
Ethyl tert-butyl ether	17.9		µg/l		20.0		89	70-130	3	25
Di-isopropyl ether	17.6		µg/l		20.0		88	70-130	6	25
Tert-Butanol / butyl alcohol	150		µg/l		200		75	70-130	7	25
1,4-Dioxane	153		µg/l		200		77	56.4-130	13	25
trans-1,4-Dichloro-2-butene	16.4		µg/l		20.0		82	70-130	15	25
Ethanol	382		µg/l		400		95	70-130	0.5	30
Surrogate: 4-Bromofluorobenzene	50.5		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	54.4		µg/l		50.0		109	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.3		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	53.8		µg/l		50.0		108	70-130		
<b><u>Matrix Spike (9030422-MS1)</u>      Source: SA91750-01</b>										
Prepared: 06-Mar-09 Analyzed: 07-Mar-09										
Benzene	15.2		µg/l		20.0	BRL	76	70-130		
Chlorobenzene	22.4		µg/l		20.0	BRL	112	70-130		
1,1-Dichloroethene	7.1	QM7	µg/l		20.0	BRL	36	70-130		
Toluene	20.7		µg/l		20.0	BRL	103	70-130		
Trichloroethene	19.6		µg/l		20.0	BRL	98	70-130		
Surrogate: 4-Bromofluorobenzene	43.9		µg/l		50.0		88	70-130		
Surrogate: Toluene-d8	51.3		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.6		µg/l		50.0		103	70-130		
Surrogate: Dibromofluoromethane	57.5		µg/l		50.0		115	70-130		
<b><u>Matrix Spike Dup (9030422-MSD1)</u>      Source: SA91750-01</b>										
Prepared: 06-Mar-09 Analyzed: 07-Mar-09										
Benzene	17.7		µg/l		20.0	BRL	88	70-130	15	30
Chlorobenzene	23.1		µg/l		20.0	BRL	115	70-130	3	30

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030422 - SW846 5030 Water MS</b>										
<b>Matrix Spike Dup (9030422-MSD1) Source: SA91750-01</b>										
Prepared: 06-Mar-09 Analyzed: 07-Mar-09										
1,1-Dichloroethene	1.7	QM7	µg/l		20.0	BRL	8	70-130	123	30
Toluene	27.0	QM7	µg/l		20.0	BRL	135	70-130	26	30
Trichloroethene	25.3		µg/l		20.0	BRL	126	70-130	25	30
Surrogate: 4-Bromofluorobenzene	46.9		µg/l		50.0		94	70-130		
Surrogate: Toluene-d8	58.5		µg/l		50.0		117	70-130		
Surrogate: 1,2-Dichloroethane-d4	62.0		µg/l		50.0		124	70-130		
Surrogate: Dibromofluoromethane	66.1	SGC	µg/l		50.0		132	70-130		
<b>Batch 9030549 - SW846 5030 Water MS</b>										
<b>Blank (9030549-BLK1)</b>										
Prepared & Analyzed: 09-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0						
Acetone	BRL	U	µg/l	10.0						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030549 - SW846 5030 Water MS</b>										
<b><u>Blank (9030549-BLK1)</u></b>										
Prepared & Analyzed: 09-Mar-09										
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	10.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						
Ethanol	BRL	U	µg/l	400						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>41.6</i>		<i>µg/l</i>		<i>50.0</i>		<i>83</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>51.7</i>		<i>µg/l</i>		<i>50.0</i>		<i>103</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.5</i>		<i>µg/l</i>		<i>50.0</i>		<i>105</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>57.0</i>		<i>µg/l</i>		<i>50.0</i>		<i>114</i>	<i>70-130</i>		
<b><u>LCS (9030549-BS1)</u></b>										
Prepared & Analyzed: 09-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.4		µg/l		20.0		112	70-130		
Acetone	17.7		µg/l		20.0		88	45.7-161		
Acrylonitrile	20.3		µg/l		20.0		101	70-130		
Benzene	17.1		µg/l		20.0		86	70-130		
Bromobenzene	19.2		µg/l		20.0		96	70-130		
Bromochloromethane	23.1		µg/l		20.0		115	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030549 - SW846 5030 Water MS</b>										
<b><u>LCS (9030549-BS1)</u></b>										
Prepared & Analyzed: 09-Mar-09										
Bromodichloromethane	21.5		µg/l		20.0		108	70-130		
Bromoform	17.7		µg/l		20.0		88	70-130		
Bromomethane	20.6		µg/l		20.0		103	39.7-172		
2-Butanone (MEK)	19.4		µg/l		20.0		97	50.8-149		
n-Butylbenzene	16.6		µg/l		20.0		83	70-130		
sec-Butylbenzene	17.3		µg/l		20.0		86	70-130		
tert-Butylbenzene	17.2		µg/l		20.0		86	70-130		
Carbon disulfide	24.5		µg/l		20.0		122	70-130		
Carbon tetrachloride	20.4		µg/l		20.0		102	70-130		
Chlorobenzene	19.1		µg/l		20.0		95	70-130		
Chloroethane	19.2		µg/l		20.0		96	70-136		
Chloroform	19.8		µg/l		20.0		99	70-130		
Chloromethane	19.0		µg/l		20.0		95	70-130		
2-Chlorotoluene	18.3		µg/l		20.0		91	70-130		
4-Chlorotoluene	18.7		µg/l		20.0		93	70-130		
1,2-Dibromo-3-chloropropane	16.9		µg/l		20.0		85	70-130		
Dibromochloromethane	22.0		µg/l		20.0		110	59.7-133		
1,2-Dibromoethane (EDB)	22.1		µg/l		20.0		111	70-130		
Dibromomethane	20.8		µg/l		20.0		104	70-130		
1,2-Dichlorobenzene	20.1		µg/l		20.0		100	70-130		
1,3-Dichlorobenzene	19.9		µg/l		20.0		99	70-130		
1,4-Dichlorobenzene	18.7		µg/l		20.0		94	70-130		
Dichlorodifluoromethane (Freon12)	18.8		µg/l		20.0		94	43-134		
1,1-Dichloroethane	25.0		µg/l		20.0		125	70-130		
1,2-Dichloroethane	20.3		µg/l		20.0		102	70-130		
1,1-Dichloroethene	20.6		µg/l		20.0		103	70-130		
cis-1,2-Dichloroethene	20.6		µg/l		20.0		103	70-130		
trans-1,2-Dichloroethene	18.2		µg/l		20.0		91	70-130		
1,2-Dichloropropane	18.7		µg/l		20.0		93	70-130		
1,3-Dichloropropane	21.4		µg/l		20.0		107	70-130		
2,2-Dichloropropane	17.7		µg/l		20.0		89	70-130		
1,1-Dichloropropene	17.5		µg/l		20.0		87	70-130		
cis-1,3-Dichloropropene	20.1		µg/l		20.0		101	70-130		
trans-1,3-Dichloropropene	21.6		µg/l		20.0		108	70-130		
Ethylbenzene	16.9		µg/l		20.0		85	70-130		
Hexachlorobutadiene	22.3		µg/l		20.0		112	50.9-165		
2-Hexanone (MBK)	20.3		µg/l		20.0		102	70-130		
Isopropylbenzene	16.5		µg/l		20.0		82	70-130		
4-Isopropyltoluene	17.4		µg/l		20.0		87	70-130		
Methyl tert-butyl ether	18.8		µg/l		20.0		94	70-130		
4-Methyl-2-pentanone (MIBK)	18.4		µg/l		20.0		92	52.8-134		
Methylene chloride	21.0		µg/l		20.0		105	70-130		
Naphthalene	13.7	QC2	µg/l		20.0		68	70-130		
n-Propylbenzene	15.8		µg/l		20.0		79	70-130		
Styrene	15.5		µg/l		20.0		78	70-130		
1,1,1,2-Tetrachloroethane	18.4		µg/l		20.0		92	70-130		
1,1,1,2,2-Tetrachloroethane	18.0		µg/l		20.0		90	70-130		
Tetrachloroethene	22.2		µg/l		20.0		111	70-130		
Toluene	20.9		µg/l		20.0		105	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030549 - SW846 5030 Water MS</b>										
<b><u>LCS (9030549-BS1)</u></b>										
Prepared & Analyzed: 09-Mar-09										
1,2,3-Trichlorobenzene	18.9		µg/l		20.0		94	70-130		
1,2,4-Trichlorobenzene	16.3		µg/l		20.0		81	70-130		
1,3,5-Trichlorobenzene	19.2		µg/l		20.0		96	70-130		
1,1,1-Trichloroethane	19.1		µg/l		20.0		95	70-130		
1,1,2-Trichloroethane	21.3		µg/l		20.0		107	70-130		
Trichloroethene	19.2		µg/l		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	24.3		µg/l		20.0		122	60-147		
1,2,3-Trichloropropane	19.0		µg/l		20.0		95	70-130		
1,2,4-Trimethylbenzene	16.5		µg/l		20.0		82	70-130		
1,3,5-Trimethylbenzene	16.2		µg/l		20.0		81	70-130		
Vinyl chloride	18.9		µg/l		20.0		94	70-130		
m,p-Xylene	35.5		µg/l		40.0		89	70-130		
o-Xylene	17.8		µg/l		20.0		89	70-130		
Tetrahydrofuran	18.9		µg/l		20.0		95	70-130		
Ethyl ether	18.9		µg/l		20.0		95	67.1-130		
Tert-amyl methyl ether	18.3		µg/l		20.0		92	70-130		
Ethyl tert-butyl ether	18.2		µg/l		20.0		91	70-130		
Di-isopropyl ether	17.4		µg/l		20.0		87	70-130		
Tert-Butanol / butyl alcohol	159		µg/l		200		79	70-130		
1,4-Dioxane	203		µg/l		200		101	56.4-130		
trans-1,4-Dichloro-2-butene	16.4		µg/l		20.0		82	70-130		
Ethanol	410		µg/l		400		103	70-130		
Surrogate: 4-Bromofluorobenzene	52.4		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	56.6		µg/l		50.0		113	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.8		µg/l		50.0		106	70-130		
Surrogate: Dibromofluoromethane	56.7		µg/l		50.0		113	70-130		
<b><u>LCS Dup (9030549-BSD1)</u></b>										
Prepared & Analyzed: 09-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.5		µg/l		20.0		108	70-130	4	25
Acetone	15.5		µg/l		20.0		78	45.7-161	13	50
Acrylonitrile	17.4		µg/l		20.0		87	70-130	15	25
Benzene	15.9		µg/l		20.0		79	70-130	8	25
Bromobenzene	18.0		µg/l		20.0		90	70-130	6	25
Bromochloromethane	20.4		µg/l		20.0		102	70-130	12	25
Bromodichloromethane	20.0		µg/l		20.0		100	70-130	7	25
Bromoform	16.7		µg/l		20.0		84	70-130	5	25
Bromomethane	18.8		µg/l		20.0		94	39.7-172	9	50
2-Butanone (MEK)	17.8		µg/l		20.0		89	50.8-149	9	50
n-Butylbenzene	14.9		µg/l		20.0		74	70-130	11	25
sec-Butylbenzene	14.8		µg/l		20.0		74	70-130	15	25
tert-Butylbenzene	14.8		µg/l		20.0		74	70-130	15	25
Carbon disulfide	19.9		µg/l		20.0		100	70-130	20	25
Carbon tetrachloride	18.1		µg/l		20.0		91	70-130	12	25
Chlorobenzene	17.9		µg/l		20.0		90	70-130	6	25
Chloroethane	16.9		µg/l		20.0		84	70-136	13	50
Chloroform	18.0		µg/l		20.0		90	70-130	10	25
Chloromethane	15.7		µg/l		20.0		78	70-130	19	25
2-Chlorotoluene	16.5		µg/l		20.0		82	70-130	10	25
4-Chlorotoluene	16.6		µg/l		20.0		83	70-130	12	25
1,2-Dibromo-3-chloropropane	17.5		µg/l		20.0		87	70-130	3	25

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030549 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9030549-BSD1)</u></b>										
Prepared & Analyzed: 09-Mar-09										
Dibromochloromethane	18.2		µg/l		20.0		91	59.7-133	19	50
1,2-Dibromoethane (EDB)	18.8		µg/l		20.0		94	70-130	16	25
Dibromomethane	18.5		µg/l		20.0		93	70-130	12	25
1,2-Dichlorobenzene	19.0		µg/l		20.0		95	70-130	5	25
1,3-Dichlorobenzene	18.6		µg/l		20.0		93	70-130	7	25
1,4-Dichlorobenzene	17.8		µg/l		20.0		89	70-130	5	25
Dichlorodifluoromethane (Freon12)	16.4		µg/l		20.0		82	43-134	14	50
1,1-Dichloroethane	22.7		µg/l		20.0		113	70-130	9	25
1,2-Dichloroethane	18.3		µg/l		20.0		91	70-130	11	25
1,1-Dichloroethene	18.6		µg/l		20.0		93	70-130	10	25
cis-1,2-Dichloroethene	18.5		µg/l		20.0		92	70-130	11	25
trans-1,2-Dichloroethene	15.6		µg/l		20.0		78	70-130	16	25
1,2-Dichloropropane	18.6		µg/l		20.0		93	70-130	0.6	25
1,3-Dichloropropane	19.2		µg/l		20.0		96	70-130	11	25
2,2-Dichloropropane	17.3		µg/l		20.0		86	70-130	3	25
1,1-Dichloropropene	16.2		µg/l		20.0		81	70-130	7	25
cis-1,3-Dichloropropene	17.6		µg/l		20.0		88	70-130	13	25
trans-1,3-Dichloropropene	18.4		µg/l		20.0		92	70-130	16	25
Ethylbenzene	15.9		µg/l		20.0		80	70-130	6	25
Hexachlorobutadiene	18.9		µg/l		20.0		94	50.9-165	17	50
2-Hexanone (MBK)	19.1		µg/l		20.0		96	70-130	6	25
Isopropylbenzene	14.4		µg/l		20.0		72	70-130	13	25
4-Isopropyltoluene	16.1		µg/l		20.0		81	70-130	8	25
Methyl tert-butyl ether	18.4		µg/l		20.0		92	70-130	2	25
4-Methyl-2-pentanone (MIBK)	15.8		µg/l		20.0		79	52.8-134	15	50
Methylene chloride	18.6		µg/l		20.0		93	70-130	12	25
Naphthalene	12.7	QC2	µg/l		20.0		64	70-130	7	25
n-Propylbenzene	13.9	QC1	µg/l		20.0		69	70-130	13	25
Styrene	13.9		µg/l		20.0		70	70-130	11	25
1,1,1,2-Tetrachloroethane	18.3		µg/l		20.0		92	70-130	0.3	25
1,1,2,2-Tetrachloroethane	17.2		µg/l		20.0		86	70-130	5	25
Tetrachloroethene	18.3		µg/l		20.0		91	70-130	20	25
Toluene	17.3		µg/l		20.0		87	70-130	19	25
1,2,3-Trichlorobenzene	17.7		µg/l		20.0		88	70-130	7	25
1,2,4-Trichlorobenzene	14.3		µg/l		20.0		72	70-130	13	25
1,3,5-Trichlorobenzene	18.3		µg/l		20.0		92	70-130	5	25
1,1,1-Trichloroethane	17.1		µg/l		20.0		85	70-130	11	25
1,1,2-Trichloroethane	19.3		µg/l		20.0		97	70-130	10	25
Trichloroethene	19.2		µg/l		20.0		96	70-130	0.2	25
Trichlorofluoromethane (Freon 11)	21.3		µg/l		20.0		107	60-147	13	50
1,2,3-Trichloropropane	17.9		µg/l		20.0		90	70-130	6	25
1,2,4-Trimethylbenzene	14.3		µg/l		20.0		72	70-130	14	25
1,3,5-Trimethylbenzene	14.1		µg/l		20.0		70	70-130	14	25
Vinyl chloride	17.1		µg/l		20.0		85	70-130	10	25
m,p-Xylene	31.0		µg/l		40.0		78	70-130	13	25
o-Xylene	16.6		µg/l		20.0		83	70-130	7	25
Tetrahydrofuran	18.1		µg/l		20.0		90	70-130	5	25
Ethyl ether	18.2		µg/l		20.0		91	67.1-130	4	50
Tert-amyl methyl ether	18.6		µg/l		20.0		93	70-130	2	25

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9030549 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9030549-BSD1)</u></b>										
Prepared & Analyzed: 09-Mar-09										
Ethyl tert-butyl ether	17.9		µg/l		20.0		89	70-130	1	25
Di-isopropyl ether	16.7		µg/l		20.0		84	70-130	4	25
Tert-Butanol / butyl alcohol	155		µg/l		200		77	70-130	3	25
1,4-Dioxane	177		µg/l		200		89	56.4-130	13	25
trans-1,4-Dichloro-2-butene	15.5		µg/l		20.0		77	70-130	6	25
Ethanol	327		µg/l		400		82	70-130	23	30
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.5</i>		<i>µg/l</i>		<i>50.0</i>		<i>97</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>54.0</i>		<i>µg/l</i>		<i>50.0</i>		<i>108</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.2</i>		<i>µg/l</i>		<i>50.0</i>		<i>100</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>56.3</i>		<i>µg/l</i>		<i>50.0</i>		<i>113</i>	<i>70-130</i>		
<b><u>Matrix Spike (9030549-MS1)</u>                      Source: SA91661-02</b>										
Prepared: 09-Mar-09 Analyzed: 10-Mar-09										
Benzene	13.7	QM7	µg/l		20.0	BRL	68	70-130		
Chlorobenzene	23.6		µg/l		20.0	BRL	118	70-130		
1,1-Dichloroethene	4.3	QM7	µg/l		20.0	BRL	21	70-130		
Toluene	20.6		µg/l		20.0	BRL	103	70-130		
Trichloroethene	17.8		µg/l		20.0	BRL	89	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.5</i>		<i>µg/l</i>		<i>50.0</i>		<i>91</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>50.8</i>		<i>µg/l</i>		<i>50.0</i>		<i>102</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>54.0</i>		<i>µg/l</i>		<i>50.0</i>		<i>108</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>58.6</i>		<i>µg/l</i>		<i>50.0</i>		<i>117</i>	<i>70-130</i>		
<b><u>Matrix Spike Dup (9030549-MSD1)</u>                      Source: SA91661-02</b>										
Prepared: 09-Mar-09 Analyzed: 10-Mar-09										
Benzene	14.6		µg/l		20.0	BRL	73	70-130	6	30
Chlorobenzene	24.6		µg/l		20.0	BRL	123	70-130	4	30
1,1-Dichloroethene	4.4	QM7	µg/l		20.0	BRL	22	70-130	2	30
Toluene	22.7		µg/l		20.0	BRL	113	70-130	10	30
Trichloroethene	18.6		µg/l		20.0	BRL	93	70-130	4	30
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>41.2</i>		<i>µg/l</i>		<i>50.0</i>		<i>82</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>µg/l</i>		<i>50.0</i>		<i>101</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>48.6</i>		<i>µg/l</i>		<i>50.0</i>		<i>97</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>56.9</i>		<i>µg/l</i>		<i>50.0</i>		<i>114</i>	<i>70-130</i>		

*This laboratory report is not valid without an authorized signature on the cover page.*

## Notes and Definitions

HDS	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
PH	Insufficient preservative to reduce the sample pH to less than 2.
QC1	Analyte out of acceptance range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM10	LCS/LCSD were analyzed in place of MS/MSD.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR5	RPD out of acceptance range.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
U	Analyte included in the analysis, but not detected
BDL	Below Detection Limit - Analyte NOT DETECTED at or above the minimum detection limit
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:  
Hanibal C. Tayeh, Ph.D.  
Nicole Leja

---

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SPECTRUM ANALYTICAL, INC.  
Featuring  
ANALYTICAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

Page 1 of 2

### Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: \_\_\_\_\_
- All TATs subject to laboratory approval
- Min. 24-hour notification needed for rushes
- Samples disposed of after 60 days unless otherwise instructed.

SA 91535

Report To: ERH

5788 Widenwaters Pkwy  
Dewitt NY 13214

Invoice To: \_\_\_\_\_

SAME

Project Mgr: Kris Peritt  
Telephone #: 315.445.2554

P.O. No.: \_\_\_\_\_ RQN: \_\_\_\_\_

Project No: 0090812  
Site Name: Tech City  
Location: Kingston State: NY  
Sampler(s): JE, JS

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
8=NaHSO<sub>4</sub> 9=\_\_\_\_\_ 10=\_\_\_\_\_ 11=\_\_\_\_\_

DW=Drinking Water GW=Groundwater WW=Wastewater  
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air  
X1=Lab BI X2=\_\_\_\_\_ X3=\_\_\_\_\_

G=Grab C=Composite

Containers:

# of VOA Vials  
# of Amber Glass  
# of Clear Glass  
# of Plastic

Analyses:

List preservative code below:

QA/QC Reporting Notes:  
(check as needed)

- Provide MA DEP MCP-CAM Report
- Provide CT DPH RCP Report
- QA/QC Reporting Level
- Standard  No QC
- Other \_\_\_\_\_

State specific reporting standards: \_\_\_\_\_

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	Date:	Time:
91535-01	TC-P1-MW-08	8/25/09	1400	G	GW	3				X VOC 8260B		
	TC-P1-MW-12		1555									
	TC-P1-MW-07		1650									
	TC-P1-EB(2)P1(0)		1400		X1							
	TC-P1-EB(2)P1(0)	8/26/09	0815		X1							
	TC-P1-MW-03		1000		GW							
	TC-P1-MW-04		1000									
	TC-P1-MW-04		1000									
	TC-P1-MW-04		1125									
	TC-P1-MW-01		1805									
	TC-P1-MW-05		1225									

Requisitioned by: [Signature]

Received by: [Signature]

Date: 8/26/09 Time: 1621

Condition upon receipt:  Iced  Ambient  °C 3

EDD Format  
 E-mail to \_\_\_\_\_



SPECTRUM ANALYTICAL, INC.  
Framingham  
ANALYTICAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

Page 2 of 2

91535

**Special Handling:**  
 Standard TAT - 7 to 10 business days  
 Rush TAT - Date Needed: \_\_\_\_\_  
All TATs subject to laboratory approval.  
Min. 24-hour notification needed for rushes.  
Samples disposed of after 60 days unless otherwise instructed.

Report To: EZH  
5788 Widenwaters Pkwy  
Dewitt NY 13214

Invoice To: \_\_\_\_\_  
SARVE

Project No.: 0096812

Site Name: Tech City

Location: Kingston

Sampler(s): JE, SS

State: NY

Project Mgr.: Kris Boroff  
Telephone #: 315-445-2554

P.O. No.: \_\_\_\_\_  
RON: \_\_\_\_\_

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
8=NaHSO<sub>4</sub> 9=\_\_\_\_\_ 10=\_\_\_\_\_ 11=\_\_\_\_\_

DW=Drinking Water GW=Groundwater WW=Wastewater  
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air  
X1=\_\_\_\_\_ X2=\_\_\_\_\_ X3=\_\_\_\_\_

Containers:

Analytes:

QA/QC Reporting Notes:  
(check as needed)  
 Provide MA DEP MCP CAM Report  
 Provide CT DEP RCP Report  
**QA/QC Reporting Level**  
 Standard  No QC  
 Other \_\_\_\_\_  
State specific reporting standards: \_\_\_\_\_

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analytes:
91535-11	TC-P1-DUP	2/26/09	1330	G ↓	GW ↓	3				X VOC 8260B ↓
-12	TC-P2-MA-02									
	B Trip Blank									

EDD Format

E-mail to \_\_\_\_\_

Condition upon receipt:  Fused  Ambient  °C 3

Relinquished by: [Signature]

Received by: [Signature]

Date: 2/26/09 Time: 1627

Report Date:  
01-Apr-09 15:42



- Final Report
- Re-Issued Report
- Revised Report

**SPECTRUM ANALYTICAL, INC.**

Featuring

**HANIBAL TECHNOLOGY**

### Laboratory Report

Environmental Resources Management  
5788 Widewaters Pkwy  
Dewitt, NY 13214  
Attn: Kristopher Perritt

Project: Tech City - Kingston, NY  
Project 0096812

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA92314-01	TC-P1-MW-19	Ground Water	17-Mar-09 08:45	18-Mar-09 15:05
SA92314-02	TC-P1-MW-173S	Ground Water	17-Mar-09 10:20	18-Mar-09 15:05
SA92314-03	TC-P1-MW-174S	Ground Water	17-Mar-09 11:25	18-Mar-09 15:05
SA92314-04	TC-P1-MW-20	Ground Water	17-Mar-09 12:20	18-Mar-09 15:05
SA92314-05	TC-P1-MW-609S	Ground Water	17-Mar-09 12:45	18-Mar-09 15:05
SA92314-06	Trip Blank	Deionized Water	17-Mar-09 13:30	18-Mar-09 15:05
SA92314-07	TC-P1-MW-21	Ground Water	17-Mar-09 13:35	18-Mar-09 15:05
SA92314-08	TC-P1-MW-18	Ground Water	17-Mar-09 15:05	18-Mar-09 15:05
SA92314-09	TC-P1-MW-22	Ground Water	17-Mar-09 15:20	18-Mar-09 15:05
SA92314-10	TC-P1-DUP	Ground Water	17-Mar-09 00:00	18-Mar-09 15:05
SA92314-11	TC-P1-SG-02	Ground Water	17-Mar-09 15:45	18-Mar-09 15:05
SA92314-12	TC-P1-EB	Deionized Water	18-Mar-09 15:00	18-Mar-09 15:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received. All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110  
Connecticut # PH-0777  
Florida # E87600/E87936  
Maine # MA138  
New Hampshire # 2538  
New Jersey # MA011/MA012  
New York # 11393/11840  
Pennsylvania # 68-04426/68-02924  
Rhode Island # 98  
USDA # S-51435  
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.  
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 49 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

*Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at [www.spectrum-analytical.com](http://www.spectrum-analytical.com) for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).*

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

**CASE NARRATIVE:**

The samples were received 5.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

**SW846 8260B**

**Laboratory Control Samples:**

9031795-BS1

---

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Chloromethane

9031795-BSD1

---

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Chloromethane

**Spikes:**

9031308-MS1      *Source: SA92273-01*

---

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

9031308-MSD1      *Source: SA92273-01*

---

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

Sample Identification

TC-P1-MW-19

SA92314-01

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 08:45

Received

18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification  
**TC-P1-MW-19**  
 SA92314-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 08:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	1.3		µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

TC-P1-MW-173S

SA92314-02

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 10:20

Received

18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.6	J	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	202	E	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	3.0		µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	136		µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	9.2		µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification

TC-PI-MW-173S

SA92314-02

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 10:20

Received

18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
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**Volatile Organic Compounds**Volatile Organic Compounds

Prepared by method SW846 5030 Water MS

100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	15.6		µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	1.5		µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	31.8		µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	1.3		µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	719		µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	

Re-analysis of Volatile Organic Compounds

75-34-3	1,1-Dichloroethane	181		µg/l	5.0	1.6	5	SW846 8260B	26-Mar-09	26-Mar-09	9031795	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	80			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	74			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	94			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-174S

SA92314-03

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 11:25

Received

18-Mar-09

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	1.3		µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	3.5		µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	1.1		µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-PI-MW-174S**  
 SA92314-03

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 11:25

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	14.8		µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	33.0		µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

TC-P1-MW-20

SA92314-04

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 12:20

Received

18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	0.4	J	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-20**  
 SA92314-04

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 12:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-609S

SA92314-05

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 12:45

Received

18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-609S**  
 SA92314-05

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 12:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

**Trip Blank**  
SA92314-06

Client Project #  
0096812

Matrix  
Deionized Water

Collection Date/Time  
17-Mar-09 13:30

Received  
18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031391	X
67-64-1	Acetone	8.4	J	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	3.4	J	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification

Trip Blank  
SA92314-06

Client Project #  
0096812

Matrix  
Deionized Water

Collection Date/Time  
17-Mar-09 13:30

Received  
18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	91			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-21

SA92314-07

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 13:35

Received

18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-21**  
 SA92314-07

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 13:35

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

TC-P1-MW-18

SA92314-08

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 15:05

Received

18-Mar-09

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-18**  
 SA92314-08

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:05

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	91			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-MW-22

SA92314-09

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 15:20

Received

18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-P1-MW-22**  
 SA92314-09

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

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Sample Identification  
**TC-PI-DUP**  
 SA92314-10

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 00:00

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	0.4	J	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-PI-DUP**  
 SA92314-10

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 00:00

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-SG-02

SA92314-11

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

17-Mar-09 15:45

Received

18-Mar-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	40.5		µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	2.4	J	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification  
**TC-P1-SG-02**  
 SA92314-11

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %			"	"	"	"	

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Sample Identification

TC-P1-EB

SA92314-12

Client Project #

0096812

Matrix

Deionized Water

Collection Date/Time

18-Mar-09 15:00

Received

18-Mar-09

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	19-Mar-09	20-Mar-09	9031308	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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Sample Identification  
**TC-PI-EB**  
 SA92314-12

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 18-Mar-09 15:00

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	19-Mar-09	20-Mar-09	9031308	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	94			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031308 - SW846 5030 Water MS</b>										
<b>Blank (9031308-BLK1)</b>										
Prepared & Analyzed: 19-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0						
Acetone	BRL	U	µg/l	10.0						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031308 - SW846 5030 Water MS</b>										
<b>Blank (9031308-BLK1)</b>										
Prepared & Analyzed: 19-Mar-09										
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	10.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						
Ethanol	BRL	U	µg/l	400						
<i>Surrogate: 4-Bromofluorobenzene</i>	44.9		µg/l		50.0		90	70-130		
<i>Surrogate: Toluene-d8</i>	48.7		µg/l		50.0		97	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.3		µg/l		50.0		107	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.7		µg/l		50.0		107	70-130		
<b>LCS (9031308-BS1)</b>										
Prepared & Analyzed: 19-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.2		µg/l		20.0		116	70-130		
Acetone	19.0		µg/l		20.0		95	45.7-161		
Acrylonitrile	22.4		µg/l		20.0		112	70-130		
Benzene	20.2		µg/l		20.0		101	70-130		
Bromobenzene	21.5		µg/l		20.0		108	70-130		
Bromochloromethane	20.4		µg/l		20.0		102	70-130		
Bromodichloromethane	21.6		µg/l		20.0		108	70-130		
Bromoform	19.2		µg/l		20.0		96	70-130		
Bromomethane	20.1		µg/l		20.0		100	39.7-172		
2-Butanone (MEK)	22.7		µg/l		20.0		114	50.8-149		
n-Butylbenzene	18.8		µg/l		20.0		94	70-130		
sec-Butylbenzene	19.5		µg/l		20.0		98	70-130		
tert-Butylbenzene	20.0		µg/l		20.0		100	70-130		
Carbon disulfide	21.0		µg/l		20.0		105	70-130		
Carbon tetrachloride	21.2		µg/l		20.0		106	70-130		
Chlorobenzene	21.1		µg/l		20.0		105	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031308 - SW846 5030 Water MS</b>										
<b><u>LCS (9031308-BS1)</u></b>										
Prepared & Analyzed: 19-Mar-09										
Chloroethane	19.9		µg/l		20.0		100	70-136		
Chloroform	19.9		µg/l		20.0		100	70-130		
Chloromethane	19.8		µg/l		20.0		99	70-130		
2-Chlorotoluene	23.8		µg/l		20.0		119	70-130		
4-Chlorotoluene	23.0		µg/l		20.0		115	70-130		
1,2-Dibromo-3-chloropropane	18.5		µg/l		20.0		93	70-130		
Dibromochloromethane	21.8		µg/l		20.0		109	59.7-133		
1,2-Dibromoethane (EDB)	21.9		µg/l		20.0		109	70-130		
Dibromomethane	18.7		µg/l		20.0		93	70-130		
1,2-Dichlorobenzene	22.0		µg/l		20.0		110	70-130		
1,3-Dichlorobenzene	23.4		µg/l		20.0		117	70-130		
1,4-Dichlorobenzene	19.0		µg/l		20.0		95	70-130		
Dichlorodifluoromethane (Freon12)	17.7		µg/l		20.0		88	43-134		
1,1-Dichloroethane	20.3		µg/l		20.0		102	70-130		
1,2-Dichloroethane	21.4		µg/l		20.0		107	70-130		
1,1-Dichloroethene	20.2		µg/l		20.0		101	70-130		
cis-1,2-Dichloroethene	22.4		µg/l		20.0		112	70-130		
trans-1,2-Dichloroethene	19.6		µg/l		20.0		98	70-130		
1,2-Dichloropropane	21.8		µg/l		20.0		109	70-130		
1,3-Dichloropropane	20.8		µg/l		20.0		104	70-130		
2,2-Dichloropropane	24.8		µg/l		20.0		124	70-130		
1,1-Dichloropropene	20.4		µg/l		20.0		102	70-130		
cis-1,3-Dichloropropene	22.2		µg/l		20.0		111	70-130		
trans-1,3-Dichloropropene	25.6		µg/l		20.0		128	70-130		
Ethylbenzene	20.4		µg/l		20.0		102	70-130		
Hexachlorobutadiene	20.7		µg/l		20.0		103	50.9-165		
2-Hexanone (MBK)	18.4		µg/l		20.0		92	70-130		
Isopropylbenzene	19.1		µg/l		20.0		95	70-130		
4-Isopropyltoluene	21.8		µg/l		20.0		109	70-130		
Methyl tert-butyl ether	21.1		µg/l		20.0		106	70-130		
4-Methyl-2-pentanone (MIBK)	20.0		µg/l		20.0		100	52.8-134		
Methylene chloride	19.8		µg/l		20.0		99	70-130		
Naphthalene	15.6		µg/l		20.0		78	70-130		
n-Propylbenzene	17.9		µg/l		20.0		89	70-130		
Styrene	18.4		µg/l		20.0		92	70-130		
1,1,1,2-Tetrachloroethane	21.5		µg/l		20.0		108	70-130		
1,1,2,2-Tetrachloroethane	20.4		µg/l		20.0		102	70-130		
Tetrachloroethene	20.1		µg/l		20.0		100	70-130		
Toluene	21.2		µg/l		20.0		106	70-130		
1,2,3-Trichlorobenzene	18.8		µg/l		20.0		94	70-130		
1,2,4-Trichlorobenzene	17.1		µg/l		20.0		85	70-130		
1,3,5-Trichlorobenzene	20.8		µg/l		20.0		104	70-130		
1,1,1-Trichloroethane	21.4		µg/l		20.0		107	70-130		
1,1,2-Trichloroethane	21.1		µg/l		20.0		106	70-130		
Trichloroethene	20.6		µg/l		20.0		103	70-130		
Trichlorofluoromethane (Freon 11)	21.8		µg/l		20.0		109	60-147		
1,2,3-Trichloropropane	23.3		µg/l		20.0		116	70-130		
1,2,4-Trimethylbenzene	19.7		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	19.3		µg/l		20.0		96	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031308 - SW846 5030 Water MS</b>										
<b><u>LCS (9031308-BS1)</u></b>										
Prepared & Analyzed: 19-Mar-09										
Vinyl chloride	20.1		µg/l		20.0		100	70-130		
m,p-Xylene	43.9		µg/l		40.0		110	70-130		
o-Xylene	21.2		µg/l		20.0		106	70-130		
Tetrahydrofuran	17.0		µg/l		20.0		85	70-130		
Ethyl ether	20.7		µg/l		20.0		104	67.1-130		
Tert-amyl methyl ether	21.4		µg/l		20.0		107	70-130		
Ethyl tert-butyl ether	18.7		µg/l		20.0		94	70-130		
Di-isopropyl ether	19.8		µg/l		20.0		99	70-130		
Tert-Butanol / butyl alcohol	212		µg/l		200		106	70-130		
1,4-Dioxane	192		µg/l		200		96	56.4-130		
trans-1,4-Dichloro-2-butene	24.2		µg/l		20.0		121	70-130		
Ethanol	399		µg/l		400		100	70-130		
Surrogate: 4-Bromofluorobenzene	53.4		µg/l		50.0		107	70-130		
Surrogate: Toluene-d8	51.3		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.3		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	47.3		µg/l		50.0		95	70-130		
<b><u>LCS Dup (9031308-BSD1)</u></b>										
Prepared & Analyzed: 19-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.4		µg/l		20.0		112	70-130	4	25
Acetone	19.4		µg/l		20.0		97	45.7-161	2	50
Acrylonitrile	21.6		µg/l		20.0		108	70-130	4	25
Benzene	18.5		µg/l		20.0		92	70-130	9	25
Bromobenzene	19.9		µg/l		20.0		100	70-130	8	25
Bromochloromethane	18.1		µg/l		20.0		90	70-130	12	25
Bromodichloromethane	20.7		µg/l		20.0		103	70-130	4	25
Bromoform	18.9		µg/l		20.0		94	70-130	2	25
Bromomethane	18.4		µg/l		20.0		92	39.7-172	9	50
2-Butanone (MEK)	22.9		µg/l		20.0		115	50.8-149	0.9	50
n-Butylbenzene	17.4		µg/l		20.0		87	70-130	8	25
sec-Butylbenzene	17.9		µg/l		20.0		89	70-130	9	25
tert-Butylbenzene	17.9		µg/l		20.0		89	70-130	11	25
Carbon disulfide	18.3		µg/l		20.0		92	70-130	13	25
Carbon tetrachloride	19.2		µg/l		20.0		96	70-130	10	25
Chlorobenzene	19.0		µg/l		20.0		95	70-130	10	25
Chloroethane	17.2		µg/l		20.0		86	70-136	15	50
Chloroform	18.8		µg/l		20.0		94	70-130	6	25
Chloromethane	18.4		µg/l		20.0		92	70-130	7	25
2-Chlorotoluene	20.6		µg/l		20.0		103	70-130	14	25
4-Chlorotoluene	21.3		µg/l		20.0		107	70-130	8	25
1,2-Dibromo-3-chloropropane	19.2		µg/l		20.0		96	70-130	3	25
Dibromochloromethane	20.5		µg/l		20.0		102	59.7-133	6	50
1,2-Dibromoethane (EDB)	20.3		µg/l		20.0		101	70-130	8	25
Dibromomethane	18.6		µg/l		20.0		93	70-130	0.2	25
1,2-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	9	25
1,3-Dichlorobenzene	22.5		µg/l		20.0		113	70-130	4	25
1,4-Dichlorobenzene	18.4		µg/l		20.0		92	70-130	3	25
Dichlorodifluoromethane (Freon12)	16.9		µg/l		20.0		84	43-134	5	50
1,1-Dichloroethane	18.5		µg/l		20.0		92	70-130	9	25
1,2-Dichloroethane	21.0		µg/l		20.0		105	70-130	2	25
1,1-Dichloroethene	18.6		µg/l		20.0		93	70-130	8	25

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031308 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9031308-BSD1)</u></b>										
Prepared & Analyzed: 19-Mar-09										
cis-1,2-Dichloroethene	18.3		µg/l		20.0		91	70-130	20	25
trans-1,2-Dichloroethene	17.8		µg/l		20.0		89	70-130	9	25
1,2-Dichloropropane	20.4		µg/l		20.0		102	70-130	7	25
1,3-Dichloropropane	19.9		µg/l		20.0		100	70-130	4	25
2,2-Dichloropropane	21.1		µg/l		20.0		105	70-130	16	25
1,1-Dichloropropene	17.6		µg/l		20.0		88	70-130	15	25
cis-1,3-Dichloropropene	21.5		µg/l		20.0		107	70-130	3	25
trans-1,3-Dichloropropene	25.5		µg/l		20.0		127	70-130	0.3	25
Ethylbenzene	19.2		µg/l		20.0		96	70-130	6	25
Hexachlorobutadiene	19.8		µg/l		20.0		99	50.9-165	4	50
2-Hexanone (MBK)	18.1		µg/l		20.0		91	70-130	2	25
Isopropylbenzene	17.5		µg/l		20.0		88	70-130	8	25
4-Isopropyltoluene	19.7		µg/l		20.0		98	70-130	10	25
Methyl tert-butyl ether	20.0		µg/l		20.0		100	70-130	6	25
4-Methyl-2-pentanone (MIBK)	18.0		µg/l		20.0		90	52.8-134	10	50
Methylene chloride	18.7		µg/l		20.0		94	70-130	6	25
Naphthalene	15.0		µg/l		20.0		75	70-130	4	25
n-Propylbenzene	16.2		µg/l		20.0		81	70-130	10	25
Styrene	17.2		µg/l		20.0		86	70-130	7	25
1,1,1,2-Tetrachloroethane	20.2		µg/l		20.0		101	70-130	6	25
1,1,2,2-Tetrachloroethane	20.9		µg/l		20.0		104	70-130	3	25
Tetrachloroethene	17.3		µg/l		20.0		86	70-130	15	25
Toluene	18.8		µg/l		20.0		94	70-130	12	25
1,2,3-Trichlorobenzene	17.9		µg/l		20.0		90	70-130	4	25
1,2,4-Trichlorobenzene	16.9		µg/l		20.0		85	70-130	0.8	25
1,3,5-Trichlorobenzene	19.2		µg/l		20.0		96	70-130	8	25
1,1,1-Trichloroethane	19.2		µg/l		20.0		96	70-130	11	25
1,1,2-Trichloroethane	21.0		µg/l		20.0		105	70-130	0.6	25
Trichloroethene	18.6		µg/l		20.0		93	70-130	10	25
Trichlorofluoromethane (Freon 11)	19.4		µg/l		20.0		97	60-147	12	50
1,2,3-Trichloropropane	22.0		µg/l		20.0		110	70-130	6	25
1,2,4-Trimethylbenzene	17.5		µg/l		20.0		87	70-130	12	25
1,3,5-Trimethylbenzene	17.7		µg/l		20.0		89	70-130	8	25
Vinyl chloride	17.7		µg/l		20.0		89	70-130	12	25
m,p-Xylene	40.0		µg/l		40.0		100	70-130	9	25
o-Xylene	20.3		µg/l		20.0		102	70-130	4	25
Tetrahydrofuran	19.5		µg/l		20.0		97	70-130	13	25
Ethyl ether	20.6		µg/l		20.0		103	67.1-130	0.7	50
Tert-amyl methyl ether	20.9		µg/l		20.0		104	70-130	3	25
Ethyl tert-butyl ether	17.7		µg/l		20.0		88	70-130	6	25
Di-isopropyl ether	18.8		µg/l		20.0		94	70-130	5	25
Tert-Butanol / butyl alcohol	206		µg/l		200		103	70-130	3	25
1,4-Dioxane	191		µg/l		200		96	56.4-130	0.4	25
trans-1,4-Dichloro-2-butene	23.2		µg/l		20.0		116	70-130	4	25
Ethanol	434		µg/l		400		109	70-130	8	30
Surrogate: 4-Bromofluorobenzene	52.6		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	50.3		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.3		µg/l		50.0		99	70-130		
Surrogate: Dibromofluoromethane	45.9		µg/l		50.0		92	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch 9031308 - SW846 5030 Water MS</b>										
<b>Matrix Spike (9031308-MS1)</b>		<b>Source: SA92273-01</b>								
Prepared: 19-Mar-09 Analyzed: 20-Mar-09										
Benzene	17.0		µg/l		20.0	BRL	85	70-130		
Chlorobenzene	24.4		µg/l		20.0	BRL	122	70-130		
1,1-Dichloroethene	5.1	QM7	µg/l		20.0	BRL	26	70-130		
Toluene	23.4		µg/l		20.0	0.4	115	70-130		
Trichloroethene	19.3		µg/l		20.0	BRL	97	70-130		
Surrogate: 4-Bromofluorobenzene	47.2		µg/l		50.0		94	70-130		
Surrogate: Toluene-d8	51.4		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	54.7		µg/l		50.0		109	70-130		
Surrogate: Dibromofluoromethane	50.2		µg/l		50.0		100	70-130		
<b>Matrix Spike Dup (9031308-MSD1)</b>		<b>Source: SA92273-01</b>								
Prepared: 19-Mar-09 Analyzed: 20-Mar-09										
Benzene	16.4		µg/l		20.0	BRL	82	70-130	3	30
Chlorobenzene	23.8		µg/l		20.0	BRL	119	70-130	2	30
1,1-Dichloroethene	4.2	QM7	µg/l		20.0	BRL	21	70-130	19	30
Toluene	22.5		µg/l		20.0	0.4	111	70-130	4	30
Trichloroethene	18.9		µg/l		20.0	BRL	95	70-130	2	30
Surrogate: 4-Bromofluorobenzene	46.1		µg/l		50.0		92	70-130		
Surrogate: Toluene-d8	49.6		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.6		µg/l		50.0		105	70-130		
Surrogate: Dibromofluoromethane	47.6		µg/l		50.0		95	70-130		
<b>Batch 9031389 - SW846 5030 Water MS</b>										
<b>Blank (9031389-BLK1)</b>										
Prepared & Analyzed: 20-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0						
Acetone	BRL	U	µg/l	10.0						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031389 - SW846 5030 Water MS</b>										
<b>Blank (9031389-BLK1)</b>										
Prepared & Analyzed: 20-Mar-09										
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	10.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	Limit
<b>Batch 9031389 - SW846 5030 Water MS</b>										
<b>Blank (9031389-BLK1)</b>										
Prepared & Analyzed: 20-Mar-09										
Ethanol	BRL	U	µg/l	400						
Surrogate: 4-Bromofluorobenzene	46.3		µg/l		50.0		93	70-130		
Surrogate: Toluene-d8	49.1		µg/l		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.5		µg/l		50.0		99	70-130		
Surrogate: Dibromofluoromethane	50.8		µg/l		50.0		102	70-130		
<b>LCS (9031389-BS1)</b>										
Prepared & Analyzed: 20-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.4		µg/l		20.0		117	70-130		
Acetone	18.7		µg/l		20.0		94	45.7-161		
Acrylonitrile	18.9		µg/l		20.0		95	70-130		
Benzene	19.9		µg/l		20.0		100	70-130		
Bromobenzene	21.7		µg/l		20.0		109	70-130		
Bromochloromethane	20.6		µg/l		20.0		103	70-130		
Bromodichloromethane	21.4		µg/l		20.0		107	70-130		
Bromoform	18.4		µg/l		20.0		92	70-130		
Bromomethane	19.2		µg/l		20.0		96	39.7-172		
2-Butanone (MEK)	21.0		µg/l		20.0		105	50.8-149		
n-Butylbenzene	20.2		µg/l		20.0		101	70-130		
sec-Butylbenzene	23.1		µg/l		20.0		116	70-130		
tert-Butylbenzene	23.4		µg/l		20.0		117	70-130		
Carbon disulfide	18.0		µg/l		20.0		90	70-130		
Carbon tetrachloride	21.0		µg/l		20.0		105	70-130		
Chlorobenzene	22.4		µg/l		20.0		112	70-130		
Chloroethane	18.2		µg/l		20.0		91	70-136		
Chloroform	20.6		µg/l		20.0		103	70-130		
Chloromethane	18.1		µg/l		20.0		91	70-130		
2-Chlorotoluene	19.5		µg/l		20.0		98	70-130		
4-Chlorotoluene	21.5		µg/l		20.0		108	70-130		
1,2-Dibromo-3-chloropropane	19.2		µg/l		20.0		96	70-130		
Dibromochloromethane	20.8		µg/l		20.0		104	59.7-133		
1,2-Dibromoethane (EDB)	20.9		µg/l		20.0		105	70-130		
Dibromomethane	19.8		µg/l		20.0		99	70-130		
1,2-Dichlorobenzene	23.5		µg/l		20.0		118	70-130		
1,3-Dichlorobenzene	22.2		µg/l		20.0		111	70-130		
1,4-Dichlorobenzene	22.3		µg/l		20.0		112	70-130		
Dichlorodifluoromethane (Freon12)	17.1		µg/l		20.0		86	43-134		
1,1-Dichloroethane	20.2		µg/l		20.0		101	70-130		
1,2-Dichloroethane	19.0		µg/l		20.0		95	70-130		
1,1-Dichloroethene	19.7		µg/l		20.0		98	70-130		
cis-1,2-Dichloroethene	21.2		µg/l		20.0		106	70-130		
trans-1,2-Dichloroethene	19.6		µg/l		20.0		98	70-130		
1,2-Dichloropropane	20.0		µg/l		20.0		100	70-130		
1,3-Dichloropropane	19.8		µg/l		20.0		99	70-130		
2,2-Dichloropropane	20.0		µg/l		20.0		100	70-130		
1,1-Dichloropropene	20.4		µg/l		20.0		102	70-130		
cis-1,3-Dichloropropene	20.5		µg/l		20.0		103	70-130		
trans-1,3-Dichloropropene	20.0		µg/l		20.0		100	70-130		
Ethylbenzene	21.9		µg/l		20.0		109	70-130		
Hexachlorobutadiene	21.9		µg/l		20.0		110	50.9-165		
2-Hexanone (MBK)	18.9		µg/l		20.0		94	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031389 - SW846 5030 Water MS</b>										
<b><u>LCS (9031389-BS1)</u></b>										
Prepared & Analyzed: 20-Mar-09										
Isopropylbenzene	18.7		µg/l		20.0		93	70-130		
4-Isopropyltoluene	23.9		µg/l		20.0		120	70-130		
Methyl tert-butyl ether	20.0		µg/l		20.0		100	70-130		
4-Methyl-2-pentanone (MIBK)	18.7		µg/l		20.0		93	52.8-134		
Methylene chloride	19.1		µg/l		20.0		96	70-130		
Naphthalene	18.8		µg/l		20.0		94	70-130		
n-Propylbenzene	21.6		µg/l		20.0		108	70-130		
Styrene	22.2		µg/l		20.0		111	70-130		
1,1,1,2-Tetrachloroethane	21.2		µg/l		20.0		106	70-130		
1,1,2,2-Tetrachloroethane	22.6		µg/l		20.0		113	70-130		
Tetrachloroethene	20.0		µg/l		20.0		100	70-130		
Toluene	19.4		µg/l		20.0		97	70-130		
1,2,3-Trichlorobenzene	19.3		µg/l		20.0		96	70-130		
1,2,4-Trichlorobenzene	18.8		µg/l		20.0		94	70-130		
1,3,5-Trichlorobenzene	19.8		µg/l		20.0		99	70-130		
1,1,1-Trichloroethane	20.5		µg/l		20.0		102	70-130		
1,1,2-Trichloroethane	20.8		µg/l		20.0		104	70-130		
Trichloroethene	19.9		µg/l		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	21.6		µg/l		20.0		108	60-147		
1,2,3-Trichloropropane	23.2		µg/l		20.0		116	70-130		
1,2,4-Trimethylbenzene	22.2		µg/l		20.0		111	70-130		
1,3,5-Trimethylbenzene	22.6		µg/l		20.0		113	70-130		
Vinyl chloride	19.2		µg/l		20.0		96	70-130		
m,p-Xylene	43.7		µg/l		40.0		109	70-130		
o-Xylene	22.4		µg/l		20.0		112	70-130		
Tetrahydrofuran	19.1		µg/l		20.0		95	70-130		
Ethyl ether	19.1		µg/l		20.0		95	67.1-130		
Tert-amyl methyl ether	18.3		µg/l		20.0		91	70-130		
Ethyl tert-butyl ether	19.1		µg/l		20.0		96	70-130		
Di-isopropyl ether	18.6		µg/l		20.0		93	70-130		
Tert-Butanol / butyl alcohol	190		µg/l		200		95	70-130		
1,4-Dioxane	205		µg/l		200		102	56.4-130		
trans-1,4-Dichloro-2-butene	17.7		µg/l		20.0		89	70-130		
Ethanol	409		µg/l		400		102	70-130		
Surrogate: 4-Bromofluorobenzene	49.1		µg/l		50.0		98	70-130		
Surrogate: Toluene-d8	48.7		µg/l		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.6		µg/l		50.0		95	70-130		
Surrogate: Dibromofluoromethane	49.7		µg/l		50.0		99	70-130		
<b><u>LCS Dup (9031389-BSD1)</u></b>										
Prepared & Analyzed: 20-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.1		µg/l		20.0		111	70-130	5	25
Acetone	18.8		µg/l		20.0		94	45.7-161	0.7	50
Acrylonitrile	18.5		µg/l		20.0		93	70-130	2	25
Benzene	19.1		µg/l		20.0		95	70-130	4	25
Bromobenzene	20.3		µg/l		20.0		101	70-130	7	25
Bromochloromethane	19.8		µg/l		20.0		99	70-130	4	25
Bromodichloromethane	20.7		µg/l		20.0		104	70-130	3	25
Bromoform	17.4		µg/l		20.0		87	70-130	5	25
Bromomethane	18.1		µg/l		20.0		90	39.7-172	6	50
2-Butanone (MEK)	21.0		µg/l		20.0		105	50.8-149	0.1	50

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031389 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9031389-BSD1)</u></b>										
Prepared & Analyzed: 20-Mar-09										
n-Butylbenzene	18.1		µg/l		20.0		90	70-130	11	25
sec-Butylbenzene	21.3		µg/l		20.0		107	70-130	8	25
tert-Butylbenzene	21.6		µg/l		20.0		108	70-130	8	25
Carbon disulfide	16.9		µg/l		20.0		85	70-130	6	25
Carbon tetrachloride	19.5		µg/l		20.0		97	70-130	8	25
Chlorobenzene	21.3		µg/l		20.0		107	70-130	5	25
Chloroethane	17.3		µg/l		20.0		87	70-136	5	50
Chloroform	19.5		µg/l		20.0		97	70-130	5	25
Chloromethane	17.2		µg/l		20.0		86	70-130	5	25
2-Chlorotoluene	19.5		µg/l		20.0		98	70-130	0.05	25
4-Chlorotoluene	20.0		µg/l		20.0		100	70-130	7	25
1,2-Dibromo-3-chloropropane	18.1		µg/l		20.0		90	70-130	6	25
Dibromochloromethane	19.9		µg/l		20.0		100	59.7-133	4	50
1,2-Dibromoethane (EDB)	20.0		µg/l		20.0		100	70-130	4	25
Dibromomethane	19.4		µg/l		20.0		97	70-130	2	25
1,2-Dichlorobenzene	22.2		µg/l		20.0		111	70-130	6	25
1,3-Dichlorobenzene	20.5		µg/l		20.0		102	70-130	8	25
1,4-Dichlorobenzene	20.8		µg/l		20.0		104	70-130	7	25
Dichlorodifluoromethane (Freon12)	15.9		µg/l		20.0		79	43-134	8	50
1,1-Dichloroethane	19.0		µg/l		20.0		95	70-130	6	25
1,2-Dichloroethane	18.8		µg/l		20.0		94	70-130	1	25
1,1-Dichloroethene	18.4		µg/l		20.0		92	70-130	7	25
cis-1,2-Dichloroethene	20.5		µg/l		20.0		103	70-130	4	25
trans-1,2-Dichloroethene	18.3		µg/l		20.0		92	70-130	7	25
1,2-Dichloropropane	19.6		µg/l		20.0		98	70-130	2	25
1,3-Dichloropropane	19.4		µg/l		20.0		97	70-130	2	25
2,2-Dichloropropane	18.7		µg/l		20.0		93	70-130	7	25
1,1-Dichloropropene	18.9		µg/l		20.0		95	70-130	8	25
cis-1,3-Dichloropropene	19.8		µg/l		20.0		99	70-130	4	25
trans-1,3-Dichloropropene	19.1		µg/l		20.0		95	70-130	5	25
Ethylbenzene	20.5		µg/l		20.0		103	70-130	6	25
Hexachlorobutadiene	18.1		µg/l		20.0		90	50.9-165	19	50
2-Hexanone (MBK)	18.2		µg/l		20.0		91	70-130	4	25
Isopropylbenzene	17.5		µg/l		20.0		88	70-130	6	25
4-Isopropyltoluene	22.2		µg/l		20.0		111	70-130	7	25
Methyl tert-butyl ether	19.6		µg/l		20.0		98	70-130	2	25
4-Methyl-2-pentanone (MIBK)	18.2		µg/l		20.0		91	52.8-134	3	50
Methylene chloride	18.8		µg/l		20.0		94	70-130	2	25
Naphthalene	15.5		µg/l		20.0		78	70-130	19	25
n-Propylbenzene	19.5		µg/l		20.0		98	70-130	10	25
Styrene	20.7		µg/l		20.0		103	70-130	7	25
1,1,1,2-Tetrachloroethane	20.6		µg/l		20.0		103	70-130	3	25
1,1,2,2-Tetrachloroethane	21.8		µg/l		20.0		109	70-130	4	25
Tetrachloroethene	18.6		µg/l		20.0		93	70-130	8	25
Toluene	18.4		µg/l		20.0		92	70-130	6	25
1,2,3-Trichlorobenzene	15.9		µg/l		20.0		80	70-130	19	25
1,2,4-Trichlorobenzene	16.1		µg/l		20.0		80	70-130	16	25
1,3,5-Trichlorobenzene	18.4		µg/l		20.0		92	70-130	8	25
1,1,1-Trichloroethane	18.9		µg/l		20.0		95	70-130	8	25

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### Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
<b>Batch 9031389 - SW846 5030 Water MS</b>									
<b><u>LCS Dup (9031389-BSD1)</u></b>									
Prepared & Analyzed: 20-Mar-09									
1,1,2-Trichloroethane	20.7		µg/l		20.0		104 70-130	0.6	25
Trichloroethene	19.0		µg/l		20.0		95 70-130	4	25
Trichlorofluoromethane (Freon 11)	20.0		µg/l		20.0		100 60-147	8	50
1,2,3-Trichloropropane	22.4		µg/l		20.0		112 70-130	4	25
1,2,4-Trimethylbenzene	20.9		µg/l		20.0		105 70-130	6	25
1,3,5-Trimethylbenzene	21.0		µg/l		20.0		105 70-130	7	25
Vinyl chloride	17.7		µg/l		20.0		89 70-130	8	25
m,p-Xylene	41.1		µg/l		40.0		103 70-130	6	25
o-Xylene	21.0		µg/l		20.0		105 70-130	7	25
Tetrahydrofuran	18.3		µg/l		20.0		91 70-130	4	25
Ethyl ether	18.6		µg/l		20.0		93 67.1-130	3	50
Tert-amyl methyl ether	17.4		µg/l		20.0		87 70-130	5	25
Ethyl tert-butyl ether	18.6		µg/l		20.0		93 70-130	3	25
Di-isopropyl ether	18.2		µg/l		20.0		91 70-130	3	25
Tert-Butanol / butyl alcohol	189		µg/l		200		94 70-130	0.8	25
1,4-Dioxane	215		µg/l		200		108 56.4-130	5	25
trans-1,4-Dichloro-2-butene	16.7		µg/l		20.0		84 70-130	6	25
Ethanol	395		µg/l		400		99 70-130	4	30
Surrogate: 4-Bromofluorobenzene	48.8		µg/l		50.0		98 70-130		
Surrogate: Toluene-d8	49.1		µg/l		50.0		98 70-130		
Surrogate: 1,2-Dichloroethane-d4	47.7		µg/l		50.0		95 70-130		
Surrogate: Dibromofluoromethane	50.2		µg/l		50.0		100 70-130		
<b><u>Matrix Spike (9031389-MS1)</u>                      Source: SA92303-06</b>									
Prepared & Analyzed: 20-Mar-09									
Benzene	16.8		µg/l		20.0	BRL	84 70-130		
Chlorobenzene	18.9		µg/l		20.0	BRL	95 70-130		
1,1-Dichloroethene	17.7		µg/l		20.0	BRL	89 70-130		
Toluene	16.8		µg/l		20.0	BRL	84 70-130		
Trichloroethene	17.8		µg/l		20.0	0.7	86 70-130		
Surrogate: 4-Bromofluorobenzene	48.8		µg/l		50.0		98 70-130		
Surrogate: Toluene-d8	49.1		µg/l		50.0		98 70-130		
Surrogate: 1,2-Dichloroethane-d4	47.5		µg/l		50.0		95 70-130		
Surrogate: Dibromofluoromethane	50.4		µg/l		50.0		101 70-130		
<b><u>Matrix Spike Dup (9031389-MSD1)</u>                      Source: SA92303-06</b>									
Prepared & Analyzed: 20-Mar-09									
Benzene	16.3		µg/l		20.0	BRL	82 70-130	3	30
Chlorobenzene	18.9		µg/l		20.0	BRL	95 70-130	0.05	30
1,1-Dichloroethene	17.3		µg/l		20.0	BRL	87 70-130	2	30
Toluene	16.6		µg/l		20.0	BRL	83 70-130	1	30
Trichloroethene	17.1		µg/l		20.0	0.7	82 70-130	4	30
Surrogate: 4-Bromofluorobenzene	48.8		µg/l		50.0		98 70-130		
Surrogate: Toluene-d8	48.8		µg/l		50.0		98 70-130		
Surrogate: 1,2-Dichloroethane-d4	47.6		µg/l		50.0		95 70-130		
Surrogate: Dibromofluoromethane	50.8		µg/l		50.0		102 70-130		
<b>Batch 9031391 - SW846 5030 Water MS</b>									
<b><u>Blank (9031391-BLK1)</u></b>									
Prepared & Analyzed: 20-Mar-09									
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0					
Acetone	BRL	U	µg/l	10.0					
Acrylonitrile	BRL	U	µg/l	0.5					

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031391 - SW846 5030 Water MS</b>										
<b>Blank (9031391-BLK1)</b>										
Prepared & Analyzed: 20-Mar-09										
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031391 - SW846 5030 Water MS</b>										
<b>Blank (9031391-BLK1)</b>										
Prepared & Analyzed: 20-Mar-09										
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	5.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						
Ethanol	BRL	U	µg/l	400						
<i>Surrogate: 4-Bromofluorobenzene</i>	45.2		µg/l		50.0		90	70-130		
<i>Surrogate: Toluene-d8</i>	48.8		µg/l		50.0		98	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.4		µg/l		50.0		97	70-130		
<i>Surrogate: Dibromofluoromethane</i>	50.8		µg/l		50.0		102	70-130		
<b>LCS (9031391-BS1)</b>										
Prepared & Analyzed: 20-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.7		µg/l		20.0		114	70-130		
Acetone	18.5		µg/l		20.0		93	45.7-161		
Acrylonitrile	18.3		µg/l		20.0		92	70-130		
Benzene	20.2		µg/l		20.0		101	70-130		
Bromobenzene	21.6		µg/l		20.0		108	70-130		
Bromochloromethane	20.5		µg/l		20.0		102	70-130		
Bromodichloromethane	21.5		µg/l		20.0		107	70-130		
Bromoform	17.7		µg/l		20.0		88	70-130		
Bromomethane	18.7		µg/l		20.0		93	39.7-172		
2-Butanone (MEK)	20.7		µg/l		20.0		103	50.8-149		
n-Butylbenzene	20.3		µg/l		20.0		101	70-130		
sec-Butylbenzene	22.5		µg/l		20.0		113	70-130		
tert-Butylbenzene	23.2		µg/l		20.0		116	70-130		
Carbon disulfide	18.5		µg/l		20.0		93	70-130		
Carbon tetrachloride	20.8		µg/l		20.0		104	70-130		
Chlorobenzene	22.7		µg/l		20.0		114	70-130		
Chloroethane	18.5		µg/l		20.0		93	70-136		
Chloroform	20.7		µg/l		20.0		103	70-130		
Chloromethane	18.9		µg/l		20.0		94	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031391 - SW846 5030 Water MS</b>										
<b><u>LCS (9031391-BS1)</u></b>										
Prepared & Analyzed: 20-Mar-09										
2-Chlorotoluene	20.3		µg/l		20.0		102	70-130		
4-Chlorotoluene	21.2		µg/l		20.0		106	70-130		
1,2-Dibromo-3-chloropropane	17.4		µg/l		20.0		87	70-130		
Dibromochloromethane	19.6		µg/l		20.0		98	59.7-133		
1,2-Dibromoethane (EDB)	20.3		µg/l		20.0		102	70-130		
Dibromomethane	19.9		µg/l		20.0		99	70-130		
1,2-Dichlorobenzene	23.4		µg/l		20.0		117	70-130		
1,3-Dichlorobenzene	21.7		µg/l		20.0		109	70-130		
1,4-Dichlorobenzene	22.0		µg/l		20.0		110	70-130		
Dichlorodifluoromethane (Freon12)	17.6		µg/l		20.0		88	43-134		
1,1-Dichloroethane	20.2		µg/l		20.0		101	70-130		
1,2-Dichloroethane	19.3		µg/l		20.0		97	70-130		
1,1-Dichloroethene	20.0		µg/l		20.0		100	70-130		
cis-1,2-Dichloroethene	21.4		µg/l		20.0		107	70-130		
trans-1,2-Dichloroethene	20.0		µg/l		20.0		100	70-130		
1,2-Dichloropropane	20.1		µg/l		20.0		100	70-130		
1,3-Dichloropropane	19.8		µg/l		20.0		99	70-130		
2,2-Dichloropropane	18.4		µg/l		20.0		92	70-130		
1,1-Dichloropropene	20.3		µg/l		20.0		102	70-130		
cis-1,3-Dichloropropene	20.5		µg/l		20.0		103	70-130		
trans-1,3-Dichloropropene	19.6		µg/l		20.0		98	70-130		
Ethylbenzene	21.8		µg/l		20.0		109	70-130		
Hexachlorobutadiene	21.0		µg/l		20.0		105	50.9-165		
2-Hexanone (MBK)	17.6		µg/l		20.0		88	70-130		
Isopropylbenzene	18.5		µg/l		20.0		92	70-130		
4-Isopropyltoluene	24.0		µg/l		20.0		120	70-130		
Methyl tert-butyl ether	19.8		µg/l		20.0		99	70-130		
4-Methyl-2-pentanone (MIBK)	17.8		µg/l		20.0		89	52.8-134		
Methylene chloride	19.7		µg/l		20.0		98	70-130		
Naphthalene	17.3		µg/l		20.0		86	70-130		
n-Propylbenzene	21.0		µg/l		20.0		105	70-130		
Styrene	23.3		µg/l		20.0		116	70-130		
1,1,1,2-Tetrachloroethane	21.4		µg/l		20.0		107	70-130		
1,1,2,2-Tetrachloroethane	21.1		µg/l		20.0		105	70-130		
Tetrachloroethene	20.0		µg/l		20.0		100	70-130		
Toluene	19.7		µg/l		20.0		98	70-130		
1,2,3-Trichlorobenzene	18.6		µg/l		20.0		93	70-130		
1,2,4-Trichlorobenzene	18.0		µg/l		20.0		90	70-130		
1,3,5-Trichlorobenzene	20.2		µg/l		20.0		101	70-130		
1,1,1-Trichloroethane	20.1		µg/l		20.0		100	70-130		
1,1,2-Trichloroethane	20.4		µg/l		20.0		102	70-130		
Trichloroethene	20.4		µg/l		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	21.2		µg/l		20.0		106	60-147		
1,2,3-Trichloropropane	21.8		µg/l		20.0		109	70-130		
1,2,4-Trimethylbenzene	22.1		µg/l		20.0		111	70-130		
1,3,5-Trimethylbenzene	22.6		µg/l		20.0		113	70-130		
Vinyl chloride	20.0		µg/l		20.0		100	70-130		
m,p-Xylene	43.3		µg/l		40.0		108	70-130		
o-Xylene	22.1		µg/l		20.0		111	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031391 - SW846 5030 Water MS</b>										
<b><u>LCS (9031391-BS1)</u></b>										
Prepared & Analyzed: 20-Mar-09										
Tetrahydrofuran	18.2		µg/l		20.0		91	70-130		
Ethyl ether	19.5		µg/l		20.0		97	67.1-130		
Tert-amyl methyl ether	17.8		µg/l		20.0		89	70-130		
Ethyl tert-butyl ether	19.2		µg/l		20.0		96	70-130		
Di-isopropyl ether	18.9		µg/l		20.0		94	70-130		
Tert-Butanol / butyl alcohol	184		µg/l		200		92	70-130		
1,4-Dioxane	206		µg/l		200		103	56.4-130		
trans-1,4-Dichloro-2-butene	16.0		µg/l		20.0		80	70-130		
Ethanol	407		µg/l		400		102	70-130		
Surrogate: 4-Bromofluorobenzene	48.9		µg/l		50.0		98	70-130		
Surrogate: Toluene-d8	48.8		µg/l		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.0		µg/l		50.0		94	70-130		
Surrogate: Dibromofluoromethane	50.1		µg/l		50.0		100	70-130		
<b><u>LCS Dup (9031391-BSD1)</u></b>										
Prepared & Analyzed: 20-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.8		µg/l		20.0		104	70-130	9	25
Acetone	16.9		µg/l		20.0		84	45.7-161	9	50
Acrylonitrile	17.6		µg/l		20.0		88	70-130	4	25
Benzene	18.9		µg/l		20.0		95	70-130	7	25
Bromobenzene	20.2		µg/l		20.0		101	70-130	7	25
Bromochloromethane	19.7		µg/l		20.0		98	70-130	4	25
Bromodichloromethane	20.5		µg/l		20.0		103	70-130	5	25
Bromoform	17.2		µg/l		20.0		86	70-130	3	25
Bromomethane	17.2		µg/l		20.0		86	39.7-172	8	50
2-Butanone (MEK)	17.4		µg/l		20.0		87	50.8-149	17	50
n-Butylbenzene	17.8		µg/l		20.0		89	70-130	13	25
sec-Butylbenzene	20.7		µg/l		20.0		104	70-130	8	25
tert-Butylbenzene	21.1		µg/l		20.0		106	70-130	10	25
Carbon disulfide	16.5		µg/l		20.0		83	70-130	11	25
Carbon tetrachloride	18.9		µg/l		20.0		95	70-130	9	25
Chlorobenzene	21.1		µg/l		20.0		106	70-130	7	25
Chloroethane	17.0		µg/l		20.0		85	70-136	9	50
Chloroform	19.4		µg/l		20.0		97	70-130	6	25
Chloromethane	17.7		µg/l		20.0		88	70-130	7	25
2-Chlorotoluene	18.6		µg/l		20.0		93	70-130	9	25
4-Chlorotoluene	19.5		µg/l		20.0		97	70-130	8	25
1,2-Dibromo-3-chloropropane	17.4		µg/l		20.0		87	70-130	0.06	25
Dibromochloromethane	19.6		µg/l		20.0		98	59.7-133	0.05	50
1,2-Dibromoethane (EDB)	20.0		µg/l		20.0		100	70-130	2	25
Dibromomethane	19.4		µg/l		20.0		97	70-130	2	25
1,2-Dichlorobenzene	21.6		µg/l		20.0		108	70-130	8	25
1,3-Dichlorobenzene	20.4		µg/l		20.0		102	70-130	6	25
1,4-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	10	25
Dichlorodifluoromethane (Freon12)	16.4		µg/l		20.0		82	43-134	7	50
1,1-Dichloroethane	18.7		µg/l		20.0		94	70-130	8	25
1,2-Dichloroethane	18.6		µg/l		20.0		93	70-130	4	25
1,1-Dichloroethene	18.0		µg/l		20.0		90	70-130	11	25
cis-1,2-Dichloroethene	20.1		µg/l		20.0		100	70-130	6	25
trans-1,2-Dichloroethene	18.0		µg/l		20.0		90	70-130	11	25
1,2-Dichloropropane	19.2		µg/l		20.0		96	70-130	4	25

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch 9031391 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9031391-BSD1)</u></b>										
Prepared & Analyzed: 20-Mar-09										
1,3-Dichloropropane	18.7		µg/l		20.0		93	70-130	6	25
2,2-Dichloropropane	17.0		µg/l		20.0		85	70-130	8	25
1,1-Dichloropropene	18.5		µg/l		20.0		93	70-130	9	25
cis-1,3-Dichloropropene	19.3		µg/l		20.0		97	70-130	6	25
trans-1,3-Dichloropropene	18.4		µg/l		20.0		92	70-130	6	25
Ethylbenzene	20.2		µg/l		20.0		101	70-130	8	25
Hexachlorobutadiene	16.6		µg/l		20.0		83	50.9-165	24	50
2-Hexanone (MBK)	17.2		µg/l		20.0		86	70-130	2	25
Isopropylbenzene	17.1		µg/l		20.0		85	70-130	8	25
4-Isopropyltoluene	21.6		µg/l		20.0		108	70-130	11	25
Methyl tert-butyl ether	19.3		µg/l		20.0		96	70-130	2	25
4-Methyl-2-pentanone (MIBK)	17.6		µg/l		20.0		88	52.8-134	2	50
Methylene chloride	18.5		µg/l		20.0		92	70-130	6	25
Naphthalene	15.1		µg/l		20.0		75	70-130	14	25
n-Propylbenzene	19.2		µg/l		20.0		96	70-130	9	25
Styrene	21.7		µg/l		20.0		108	70-130	7	25
1,1,1,2-Tetrachloroethane	19.7		µg/l		20.0		99	70-130	8	25
1,1,2,2-Tetrachloroethane	20.8		µg/l		20.0		104	70-130	1	25
Tetrachloroethene	18.5		µg/l		20.0		93	70-130	8	25
Toluene	18.1		µg/l		20.0		91	70-130	8	25
1,2,3-Trichlorobenzene	14.5		µg/l		20.0		72	70-130	25	25
1,2,4-Trichlorobenzene	15.7		µg/l		20.0		78	70-130	14	25
1,3,5-Trichlorobenzene	18.4		µg/l		20.0		92	70-130	10	25
1,1,1-Trichloroethane	18.5		µg/l		20.0		92	70-130	8	25
1,1,2-Trichloroethane	20.0		µg/l		20.0		100	70-130	2	25
Trichloroethene	18.9		µg/l		20.0		95	70-130	7	25
Trichlorofluoromethane (Freon 11)	19.4		µg/l		20.0		97	60-147	8	50
1,2,3-Trichloropropane	21.5		µg/l		20.0		108	70-130	1	25
1,2,4-Trimethylbenzene	20.5		µg/l		20.0		102	70-130	8	25
1,3,5-Trimethylbenzene	20.6		µg/l		20.0		103	70-130	9	25
Vinyl chloride	18.1		µg/l		20.0		90	70-130	10	25
m,p-Xylene	40.4		µg/l		40.0		101	70-130	7	25
o-Xylene	20.4		µg/l		20.0		102	70-130	8	25
Tetrahydrofuran	17.5		µg/l		20.0		87	70-130	4	25
Ethyl ether	18.5		µg/l		20.0		92	67.1-130	5	50
Tert-amyl methyl ether	17.2		µg/l		20.0		86	70-130	4	25
Ethyl tert-butyl ether	18.4		µg/l		20.0		92	70-130	5	25
Di-isopropyl ether	18.0		µg/l		20.0		90	70-130	5	25
Tert-Butanol / butyl alcohol	166		µg/l		200		83	70-130	11	25
1,4-Dioxane	165		µg/l		200		82	56.4-130	22	25
trans-1,4-Dichloro-2-butene	15.3		µg/l		20.0		77	70-130	4	25
Ethanol	341		µg/l		400		85	70-130	18	30
Surrogate: 4-Bromofluorobenzene	48.6		µg/l		50.0		97	70-130		
Surrogate: Toluene-d8	48.9		µg/l		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.1		µg/l		50.0		94	70-130		
Surrogate: Dibromofluoromethane	49.8		µg/l		50.0		100	70-130		
<b>Matrix Spike (9031391-MS1) Source: SA92326-10</b>										
Prepared: 20-Mar-09 Analyzed: 21-Mar-09										
Benzene	16.6		µg/l		20.0	BRL	83	70-130		
Chlorobenzene	18.5		µg/l		20.0	BRL	92	70-130		

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch 9031391 - SW846 5030 Water MS</b>										
<b>Matrix Spike (9031391-MS1)</b>		<b>Source: SA92326-10</b>								
Prepared: 20-Mar-09 Analyzed: 21-Mar-09										
1,1-Dichloroethene	17.1		µg/l		20.0	BRL	86	70-130		
Toluene	16.7		µg/l		20.0	BRL	83	70-130		
Trichloroethene	17.7		µg/l		20.0	BRL	88	70-130		
Surrogate: 4-Bromofluorobenzene	50.1		µg/l		50.0		100	70-130		
Surrogate: Toluene-d8	49.8		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.7		µg/l		50.0		97	70-130		
Surrogate: Dibromofluoromethane	50.2		µg/l		50.0		100	70-130		
<b>Matrix Spike Dup (9031391-MSD1)</b>		<b>Source: SA92326-10</b>								
Prepared: 20-Mar-09 Analyzed: 21-Mar-09										
Benzene	16.8		µg/l		20.0	BRL	84	70-130	0.9	30
Chlorobenzene	19.0		µg/l		20.0	BRL	95	70-130	3	30
1,1-Dichloroethene	17.5		µg/l		20.0	BRL	88	70-130	2	30
Toluene	16.9		µg/l		20.0	BRL	84	70-130	1	30
Trichloroethene	17.2		µg/l		20.0	BRL	86	70-130	3	30
Surrogate: 4-Bromofluorobenzene	48.7		µg/l		50.0		97	70-130		
Surrogate: Toluene-d8	49.4		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.2		µg/l		50.0		98	70-130		
Surrogate: Dibromofluoromethane	50.3		µg/l		50.0		101	70-130		
<b>Batch 9031795 - SW846 5030 Water MS</b>										
<b>Blank (9031795-BLK1)</b>										
Prepared & Analyzed: 26-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0						
Acetone	BRL	U	µg/l	10.0						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031795 - SW846 5030 Water MS</b>										
<b>Blank (9031795-BLK1)</b>										
Prepared & Analyzed: 26-Mar-09										
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	10.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						
Ethanol	BRL	U	µg/l	400						
Surrogate: 4-Bromofluorobenzene	25.1		µg/l		30.0		84	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031795 - SW846 5030 Water MS</b>										
<b>Blank (9031795-BLK1)</b>										
Prepared & Analyzed: 26-Mar-09										
Surrogate: Toluene-d8	25.0		µg/l		30.0		83	70-130		
Surrogate: 1,2-Dichloroethane-d4	26.9		µg/l		30.0		90	70-130		
Surrogate: Dibromofluoromethane	28.2		µg/l		30.0		94	70-130		
<b>LCS (9031795-BS1)</b>										
Prepared & Analyzed: 26-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.2		µg/l		20.0		111	70-130		
Acetone	16.4		µg/l		20.0		82	45.7-161		
Acrylonitrile	15.7		µg/l		20.0		78	70-130		
Benzene	18.1		µg/l		20.0		91	70-130		
Bromobenzene	23.3		µg/l		20.0		116	70-130		
Bromochloromethane	20.8		µg/l		20.0		104	70-130		
Bromodichloromethane	19.6		µg/l		20.0		98	70-130		
Bromoform	23.8		µg/l		20.0		119	70-130		
Bromomethane	19.3		µg/l		20.0		97	39.7-172		
2-Butanone (MEK)	21.6		µg/l		20.0		108	50.8-149		
n-Butylbenzene	17.2		µg/l		20.0		86	70-130		
sec-Butylbenzene	21.3		µg/l		20.0		106	70-130		
tert-Butylbenzene	19.6		µg/l		20.0		98	70-130		
Carbon disulfide	19.8		µg/l		20.0		99	70-130		
Carbon tetrachloride	18.7		µg/l		20.0		94	70-130		
Chlorobenzene	18.7		µg/l		20.0		94	70-130		
Chloroethane	16.0		µg/l		20.0		80	70-136		
Chloroform	18.8		µg/l		20.0		94	70-130		
Chloromethane	12.4	QC2	µg/l		20.0		62	70-130		
2-Chlorotoluene	22.3		µg/l		20.0		111	70-130		
4-Chlorotoluene	20.6		µg/l		20.0		103	70-130		
1,2-Dibromo-3-chloropropane	20.5		µg/l		20.0		102	70-130		
Dibromochloromethane	14.9		µg/l		20.0		75	59.7-133		
1,2-Dibromoethane (EDB)	20.5		µg/l		20.0		103	70-130		
Dibromomethane	19.4		µg/l		20.0		97	70-130		
1,2-Dichlorobenzene	24.2		µg/l		20.0		121	70-130		
1,3-Dichlorobenzene	23.8		µg/l		20.0		119	70-130		
1,4-Dichlorobenzene	19.7		µg/l		20.0		98	70-130		
Dichlorodifluoromethane (Freon12)	17.0		µg/l		20.0		85	43-134		
1,1-Dichloroethane	16.7		µg/l		20.0		83	70-130		
1,2-Dichloroethane	18.3		µg/l		20.0		92	70-130		
1,1-Dichloroethene	19.3		µg/l		20.0		96	70-130		
cis-1,2-Dichloroethene	20.8		µg/l		20.0		104	70-130		
trans-1,2-Dichloroethene	18.4		µg/l		20.0		92	70-130		
1,2-Dichloropropane	16.4		µg/l		20.0		82	70-130		
1,3-Dichloropropane	16.8		µg/l		20.0		84	70-130		
2,2-Dichloropropane	18.2		µg/l		20.0		91	70-130		
1,1-Dichloropropene	15.6		µg/l		20.0		78	70-130		
cis-1,3-Dichloropropene	15.6		µg/l		20.0		78	70-130		
trans-1,3-Dichloropropene	18.9		µg/l		20.0		95	70-130		
Ethylbenzene	18.2		µg/l		20.0		91	70-130		
Hexachlorobutadiene	23.1		µg/l		20.0		115	50.9-165		
2-Hexanone (MBK)	19.4		µg/l		20.0		97	70-130		
Isopropylbenzene	17.8		µg/l		20.0		89	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031795 - SW846 5030 Water MS</b>										
<b><u>LCS (9031795-BS1)</u></b>										
Prepared & Analyzed: 26-Mar-09										
4-Isopropyltoluene	17.4		µg/l		20.0		87	70-130		
Methyl tert-butyl ether	21.3		µg/l		20.0		106	70-130		
4-Methyl-2-pentanone (MIBK)	19.7		µg/l		20.0		98	52.8-134		
Methylene chloride	18.2		µg/l		20.0		91	70-130		
Naphthalene	18.2		µg/l		20.0		91	70-130		
n-Propylbenzene	18.1		µg/l		20.0		90	70-130		
Styrene	16.8		µg/l		20.0		84	70-130		
1,1,1,2-Tetrachloroethane	22.8		µg/l		20.0		114	70-130		
1,1,2,2-Tetrachloroethane	19.8		µg/l		20.0		99	70-130		
Tetrachloroethene	19.0		µg/l		20.0		95	70-130		
Toluene	15.7		µg/l		20.0		78	70-130		
1,2,3-Trichlorobenzene	20.4		µg/l		20.0		102	70-130		
1,2,4-Trichlorobenzene	18.5		µg/l		20.0		93	70-130		
1,3,5-Trichlorobenzene	19.0		µg/l		20.0		95	70-130		
1,1,1-Trichloroethane	19.0		µg/l		20.0		95	70-130		
1,1,2-Trichloroethane	17.6		µg/l		20.0		88	70-130		
Trichloroethene	20.6		µg/l		20.0		103	70-130		
Trichlorofluoromethane (Freon 11)	20.1		µg/l		20.0		100	60-147		
1,2,3-Trichloropropane	24.0		µg/l		20.0		120	70-130		
1,2,4-Trimethylbenzene	19.0		µg/l		20.0		95	70-130		
1,3,5-Trimethylbenzene	17.8		µg/l		20.0		89	70-130		
Vinyl chloride	23.0		µg/l		20.0		115	70-130		
m,p-Xylene	40.2		µg/l		40.0		100	70-130		
o-Xylene	21.0		µg/l		20.0		105	70-130		
Tetrahydrofuran	16.3		µg/l		20.0		82	70-130		
Ethyl ether	20.1		µg/l		20.0		100	67.1-130		
Tert-amyl methyl ether	18.2		µg/l		20.0		91	70-130		
Ethyl tert-butyl ether	16.2		µg/l		20.0		81	70-130		
Di-isopropyl ether	14.8		µg/l		20.0		74	70-130		
Tert-Butanol / butyl alcohol	184		µg/l		200		92	70-130		
1,4-Dioxane	222		µg/l		200		111	56.4-130		
trans-1,4-Dichloro-2-butene	18.3		µg/l		20.0		92	70-130		
Ethanol	322		µg/l		400		80	70-130		
Surrogate: 4-Bromofluorobenzene	35.0		µg/l		30.0		116	70-130		
Surrogate: Toluene-d8	26.2		µg/l		30.0		87	70-130		
Surrogate: 1,2-Dichloroethane-d4	27.0		µg/l		30.0		90	70-130		
Surrogate: Dibromofluoromethane	28.6		µg/l		30.0		95	70-130		
<b><u>LCS Dup (9031795-BSD1)</u></b>										
Prepared & Analyzed: 26-Mar-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.8		µg/l		20.0		114	70-130	3	25
Acetone	16.8		µg/l		20.0		84	45.7-161	3	50
Acrylonitrile	15.3		µg/l		20.0		76	70-130	2	25
Benzene	18.0		µg/l		20.0		90	70-130	0.7	25
Bromobenzene	22.7		µg/l		20.0		114	70-130	2	25
Bromochloromethane	21.1		µg/l		20.0		106	70-130	1	25
Bromodichloromethane	19.9		µg/l		20.0		100	70-130	2	25
Bromoform	23.6		µg/l		20.0		118	70-130	1	25
Bromomethane	18.5		µg/l		20.0		92	39.7-172	4	50
2-Butanone (MEK)	22.8		µg/l		20.0		114	50.8-149	5	50
n-Butylbenzene	17.4		µg/l		20.0		87	70-130	1	25

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### Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9031795 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9031795-BSD1)</u></b>										
Prepared & Analyzed: 26-Mar-09										
sec-Butylbenzene	20.5		µg/l		20.0		103	70-130	4	25
tert-Butylbenzene	18.7		µg/l		20.0		94	70-130	5	25
Carbon disulfide	18.5		µg/l		20.0		92	70-130	7	25
Carbon tetrachloride	18.8		µg/l		20.0		94	70-130	0.1	25
Chlorobenzene	18.8		µg/l		20.0		94	70-130	0.5	25
Chloroethane	15.2		µg/l		20.0		76	70-136	5	50
Chloroform	18.6		µg/l		20.0		93	70-130	0.7	25
Chloromethane	12.6	QC2	µg/l		20.0		63	70-130	2	25
2-Chlorotoluene	21.4		µg/l		20.0		107	70-130	4	25
4-Chlorotoluene	20.2		µg/l		20.0		101	70-130	2	25
1,2-Dibromo-3-chloropropane	19.8		µg/l		20.0		99	70-130	4	25
Dibromochloromethane	15.8		µg/l		20.0		79	59.7-133	5	50
1,2-Dibromoethane (EDB)	20.6		µg/l		20.0		103	70-130	0.3	25
Dibromomethane	20.0		µg/l		20.0		100	70-130	3	25
1,2-Dichlorobenzene	24.8		µg/l		20.0		124	70-130	2	25
1,3-Dichlorobenzene	23.1		µg/l		20.0		115	70-130	3	25
1,4-Dichlorobenzene	19.7		µg/l		20.0		98	70-130	0.05	25
Dichlorodifluoromethane (Freon12)	17.0		µg/l		20.0		85	43-134	0.5	50
1,1-Dichloroethane	16.4		µg/l		20.0		82	70-130	1	25
1,2-Dichloroethane	18.7		µg/l		20.0		94	70-130	2	25
1,1-Dichloroethene	18.5		µg/l		20.0		92	70-130	4	25
cis-1,2-Dichloroethene	20.8		µg/l		20.0		104	70-130	0.05	25
trans-1,2-Dichloroethene	18.2		µg/l		20.0		91	70-130	1	25
1,2-Dichloropropane	16.8		µg/l		20.0		84	70-130	2	25
1,3-Dichloropropane	17.4		µg/l		20.0		87	70-130	3	25
2,2-Dichloropropane	18.1		µg/l		20.0		91	70-130	0.6	25
1,1-Dichloropropene	16.0		µg/l		20.0		80	70-130	2	25
cis-1,3-Dichloropropene	16.0		µg/l		20.0		80	70-130	2	25
trans-1,3-Dichloropropene	18.6		µg/l		20.0		93	70-130	2	25
Ethylbenzene	17.8		µg/l		20.0		89	70-130	2	25
Hexachlorobutadiene	23.9		µg/l		20.0		119	50.9-165	3	50
2-Hexanone (MBK)	20.0		µg/l		20.0		100	70-130	3	25
Isopropylbenzene	17.3		µg/l		20.0		86	70-130	3	25
4-Isopropyltoluene	17.2		µg/l		20.0		86	70-130	0.9	25
Methyl tert-butyl ether	21.9		µg/l		20.0		110	70-130	3	25
4-Methyl-2-pentanone (MIBK)	19.5		µg/l		20.0		98	52.8-134	0.8	50
Methylene chloride	17.4		µg/l		20.0		87	70-130	4	25
Naphthalene	18.5		µg/l		20.0		92	70-130	1	25
n-Propylbenzene	17.4		µg/l		20.0		87	70-130	4	25
Styrene	16.5		µg/l		20.0		83	70-130	2	25
1,1,1,2-Tetrachloroethane	22.9		µg/l		20.0		115	70-130	0.7	25
1,1,2,2-Tetrachloroethane	19.8		µg/l		20.0		99	70-130	0.05	25
Tetrachloroethene	19.3		µg/l		20.0		96	70-130	2	25
Toluene	15.6		µg/l		20.0		78	70-130	0.8	25
1,2,3-Trichlorobenzene	21.2		µg/l		20.0		106	70-130	4	25
1,2,4-Trichlorobenzene	19.1		µg/l		20.0		95	70-130	3	25
1,3,5-Trichlorobenzene	20.0		µg/l		20.0		100	70-130	5	25
1,1,1-Trichloroethane	19.0		µg/l		20.0		95	70-130	0.05	25
1,1,2-Trichloroethane	17.4		µg/l		20.0		87	70-130	1	25

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### Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch 9031795 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9031795-BSD1)</u></b>										
Prepared & Analyzed: 26-Mar-09										
Trichloroethene	20.9		µg/l		20.0		105	70-130	1	25
Trichlorofluoromethane (Freon 11)	20.0		µg/l		20.0		100	60-147	0.1	50
1,2,3-Trichloropropane	23.3		µg/l		20.0		117	70-130	3	25
1,2,4-Trimethylbenzene	18.8		µg/l		20.0		94	70-130	1	25
1,3,5-Trimethylbenzene	17.2		µg/l		20.0		86	70-130	3	25
Vinyl chloride	22.7		µg/l		20.0		114	70-130	1	25
m,p-Xylene	39.8		µg/l		40.0		99	70-130	1	25
o-Xylene	20.6		µg/l		20.0		103	70-130	2	25
Tetrahydrofuran	15.7		µg/l		20.0		79	70-130	4	25
Ethyl ether	20.5		µg/l		20.0		102	67.1-130	2	50
Tert-amyl methyl ether	19.2		µg/l		20.0		96	70-130	5	25
Ethyl tert-butyl ether	16.8		µg/l		20.0		84	70-130	3	25
Di-isopropyl ether	15.0		µg/l		20.0		75	70-130	1	25
Tert-Butanol / butyl alcohol	183		µg/l		200		92	70-130	0.3	25
1,4-Dioxane	226		µg/l		200		113	56.4-130	2	25
trans-1,4-Dichloro-2-butene	18.4		µg/l		20.0		92	70-130	0.6	25
Ethanol	281		µg/l		400		70	70-130	14	30
Surrogate: 4-Bromofluorobenzene	33.9		µg/l		30.0		113	70-130		
Surrogate: Toluene-d8	26.2		µg/l		30.0		87	70-130		
Surrogate: 1,2-Dichloroethane-d4	26.7		µg/l		30.0		89	70-130		
Surrogate: Dibromofluoromethane	28.3		µg/l		30.0		94	70-130		
<b><u>Matrix Spike (9031795-MS1)</u></b> <b>Source: SA92585-01</b>										
Prepared & Analyzed: 26-Mar-09										
Benzene	16.2		µg/l		20.0	BRL	81	70-130		
Chlorobenzene	17.6		µg/l		20.0	BRL	88	70-130		
1,1-Dichloroethene	14.9		µg/l		20.0	BRL	74	70-130		
Toluene	15.0		µg/l		20.0	BRL	75	70-130		
Trichloroethene	20.9		µg/l		20.0	2.7	91	70-130		
Surrogate: 4-Bromofluorobenzene	35.4		µg/l		30.0		118	70-130		
Surrogate: Toluene-d8	26.4		µg/l		30.0		88	70-130		
Surrogate: 1,2-Dichloroethane-d4	28.7		µg/l		30.0		96	70-130		
Surrogate: Dibromofluoromethane	29.8		µg/l		30.0		99	70-130		
<b><u>Matrix Spike Dup (9031795-MSD1)</u></b> <b>Source: SA92585-01</b>										
Prepared & Analyzed: 26-Mar-09										
Benzene	16.4		µg/l		20.0	BRL	82	70-130	1	30
Chlorobenzene	18.7		µg/l		20.0	BRL	94	70-130	6	30
1,1-Dichloroethene	15.4		µg/l		20.0	BRL	77	70-130	3	30
Toluene	15.5		µg/l		20.0	BRL	78	70-130	3	30
Trichloroethene	18.2		µg/l		20.0	2.7	78	70-130	16	30
Surrogate: 4-Bromofluorobenzene	32.6		µg/l		30.0		108	70-130		
Surrogate: Toluene-d8	27.8		µg/l		30.0		93	70-130		
Surrogate: 1,2-Dichloroethane-d4	26.6		µg/l		30.0		89	70-130		
Surrogate: Dibromofluoromethane	28.8		µg/l		30.0		96	70-130		

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## Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
U	Analyte included in the analysis, but not detected
BDL	Below Detection Limit - Analyte NOT DETECTED at or above the minimum detection limit
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:  
Hanibal C. Tayeh, Ph.D.



SPECTRUM ANALYTICAL, INC.  
Framingham  
HEAVY METALS

# CHAIN OF CUSTODY RECORD

Page 1 of 2

5A 923140K

**Special Handling:**

Standard TAT - 7 to 10 business days

Rush TAT - Date Needed: \_\_\_\_\_

All TATs, subject to laboratory approval.

Min. 24-hour notification needed for rushes.

Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM  
3388 Middlesex Pkwy  
Scituate, MA 01974

Invoice To: SAWE

P.O. No.: \_\_\_\_\_

RQN: \_\_\_\_\_

Project No.: 0096712

Site Name: TeaCity

Location: Kingston State: NY

Sampler(s): J. Elder, S. Schwart

Project Mgr.: Kris Peritt

1=Na, S2O, 2=HCl 3=H2SO4, 4=HNO3, 5=NaOH 6=Ascorbic Acid

7=CH3OH 8=NaHSO4 9=\_\_\_\_\_ 10=\_\_\_\_\_

Containers:

Analyses:

QA Reporting Notes:  
(check if needed)

Provide MA DEP MCP-CAL Report

Provide CT DEP RCP Report

QA/QC Reporting Level

Standard  No QC

Other \_\_\_\_\_

State specific reporting standards

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SI=Sludge A=Air

X1= Lab DI X2=\_\_\_\_\_ X3=\_\_\_\_\_

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses	Received by:	Date:	Time:
<u>DP0821-01</u>	<u>TC-P1-MW-19</u>	<u>3/17/09</u>	<u>0845</u>	<u>G</u>	<u>GW</u>	<u>R</u>	<u>3</u>				<u>VOC 8260B</u>	<u>[Signature]</u>	<u>3/18/09</u>	<u>1505</u>
	<u>TC-P1-MW-1B35</u>		<u>1030</u>				<u>2</u>							
	<u>TC-P1-MW-1745</u>		<u>1125</u>				<u>3</u>							
	<u>TC-P1-MW-20</u>		<u>1230</u>				<u>3</u>							
	<u>TC-P1-MW-6095</u>		<u>1245</u>				<u>3</u>							
	<u>TC-P1-MW-6095</u>		<u>1330</u>				<u>3</u>							
	<u>TC-P1-MW-21</u>		<u>1335</u>				<u>3</u>							
	<u>TC-P1-MW-1B</u>		<u>1505</u>				<u>3</u>							
	<u>TC-P1-MW-22</u>		<u>1530</u>				<u>3</u>							
	<u>TC-P1-DUP</u>						<u>3</u>							

Condition upon receipt:  Fused  Ambient  C 5.6

Retiqueted by: [Signature]

Received by: [Signature]



SPECTRUM ANALYTICAL, INC.  
Framingham  
HARRISVILLE, MA 01024

# CHAIN OF CUSTODY RECORD

Page 2 of 2

### Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: \_\_\_\_\_
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

SA 923140K

Report To: ERM  
5389 Cuddeback's Dr  
Deerfield MA 01934

Project Mgr.: Kris Peritt

Invoice To: SAWE

P.O. No.: \_\_\_\_\_

Project No.: 0096812

Site Name: TECH CITY

Location: Kingsford

Sampler(s): J. Elder, S. Schneider

State: MA

1=Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
 7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=\_\_\_\_\_ 10=\_\_\_\_\_

DW=Drinking Water GW=Groundwater WW=Wastewater  
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air  
 X1= DI X2=\_\_\_\_\_ X3=\_\_\_\_\_

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)
<u>0096812-11</u>	<u>TC-P1-56902</u>	<u>3/17/09</u>	<u>1545</u>	<u>G</u>	<u>GW</u>	<u>2</u>	<u>1</u>				<u>VOC 8260 B</u>		<input type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report <input type="checkbox"/> QA/QC Reporting Level <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____ State specific reporting standards:
	<u>TC-P1-56902</u>	<u>3/18/09</u>	<u>1500</u>	<u>G</u>	<u>X1</u>	<u>2</u>	<u>3</u>						

Relinquished by: [Signature]

Received by: [Signature]

Date: 3/18/09 Time: 1505

Condition upon receipt:  Filled  Ambient per S.L.

EDD Format: \_\_\_\_\_

Fax results when available to ( ) \_\_\_\_\_  
 E-mail to Lois.Kerrith@ERM.com

**DATA USABILITY SUMMARY REPORT (DUSR)  
TECHCITY PROPERTIES INC.  
KINGSTON, NEW YORK  
GROUND WATER SAMPLING  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
PROJECT NUMBER 0096812  
SPECTRUM ANALYTICAL SAMPLE DELIVERY GROUP SA91535**

***Deliverables:***

The above referenced summary data packages and analytical data packages for nine (9) ground water samples, one (1) blind field duplicate sample, two (2) equipment blanks, and one (1) trip blank contain all required deliverables as stipulated under the 2005 New York State Analytical Services Protocols (ASP) for Category B deliverables. The sample specific analysis included Target Compound List (TCL) Volatile Organic Compounds (VOC), analyzed in accordance with United States Environmental Protection Agency (USEPA) SW-846 Method 8260B. The data have been validated according to the protocols and quality control (QC) requirements of the ASP, the USEPA CLP National Functional Guidelines for Organic Data Review (October 1999), and the reviewer's professional judgment.

This report pertains to the following ground water samples collected on 25 February 2009 and 26 February 2009:

*Sample ID*

TC-P1-MW-08  
TC-P1-MW-12  
TC-P1-MW-07  
TC-P1-MW-03  
TC-P1-MW-04  
TC-P1-MW-123AS  
TC-P1-MW-01  
TC-P1-MW-05  
TC-P1-MW-02

*QC Sample ID*

TC-P1-Dup (blind field duplicate of sample TC-P1-MW-01)  
TC-P1-EB (2/25/09)  
TC-P1-EB (2/26/09)  
Trip Blank

The following items/criteria were reviewed:

- Case narrative and deliverable compliance
- Chain-of-Custody (COC)
- Holding times both technical and procedural and sample preservation (including pH and temperature)
- Surrogate Compound recoveries, summary and data
- Laboratory Control Sample (LCS) recoveries
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Blind Field Duplicate sample results
- Equipment Blank results
- Trip Blank results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra, and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- The Chain-of-Custody (COC) was reviewed for completeness and accuracy. There were no discrepancies observed with the samples presented on the COC. All tests specified on the COC were performed for the designated samples.
- The percent recovery (%R) for the surrogate compound dibromofluoromethane was above QC criteria (139%; QC limit 70-130%) in sample Trip Blank. Results for sample Trip Blank may be biased high. No qualification of the sample data is required as no compounds were positively identified in sample Trip Blank.
- No matrix spike/matrix spike duplicate samples (MS/MSD) samples were submitted to the laboratory. The laboratory provided batch QC data from samples not from this project to fulfill protocol obligations. The batch QC has no bearing on the

sample data and is not used for sample validation purposes. LCS data is utilized to determine the quality of the sample data.

- The %R for 1,1,2-trichlorotrifluoroethane (Freon 113) was above QC criteria in the LCS applicable to sample TC-P1-MW-123AS (135%; QC limit 70-130%). Results for Freon 113 in sample TC-P1-MW-123AS may be biased high. No qualification of the sample data is required as Freon 113 was not positively identified in sample TC-P1-MW-123AS.
- The %R for 2,2-dichloropropane and naphthalene were below QC criteria in the LCS applicable to samples TC-P1-MW-08 and TC-P1-EB (2/25/09) (68% and 64% respectively; QC limit 70-130%). Results for 2,2-dichloropropane and naphthalene in samples TC-P1-MW-08 and TC-P1-EB (2/25/09) may be biased low. 2,2-dichloropropane and naphthalene were not positively identified in samples TC-P1-MW-08 and TC-P1-EB (2/25/09) therefore results for these compounds in the listed samples are considered estimated and qualified "UJ".
- The relative percent difference (RPD) for 2,2-dichloropropane was slightly above QC limits in the LCS applicable to samples TC-P1-MW-08 and TC-P1-EB (2/25/09) (33%; QC limit 25%). No additional action is required as these samples have already been qualified as previously noted.
- The %R for naphthalene was below QC criteria in the LCS applicable to samples TC-P1-EB (2/26/09) and Trip Blank (63%; QC limit 70-130%). Results for naphthalene in samples TC-P1-EB (2/26/09) and Trip Blank may be biased low. Naphthalene was not positively identified in samples TC-P1-EB (2/26/09) and Trip Blank therefore results for naphthalene in the listed samples are considered estimated and qualified "UJ".
- The %R for naphthalene and n-propylbenzene were below QC criteria in the LCS applicable to all samples except TC-P1-MW-08, TC-P1-EB (2/25/09), TC-P1-EB (2/26/09), TC-P1-MW-123AS, and Trip Blank (68% and 64% respectively for naphthalene and 69% for n-propylbenzene; QC limit 70-130%). Results for naphthalene and n-propylbenzene in the samples associated with this LCS may be biased low. 2,2-dichloropropane and naphthalene were not positively identified in any associated samples therefore results for these compounds in the associated samples are considered estimated



and qualified "UJ".

- The case narrative states that samples TC-P1-MW-03 and TC-P1-MW-12 did not satisfy the field preservation criteria (pH<2) and also contained noticeable air bubbles. Non-preserved samples should be analyzed within seven days from the date of sample collection. Both samples were analyzed twelve days after the date of sample collection. Results for both samples may be biased low. No positive detects were reported in either sample therefore results for both sample are considered estimated and have therefore been qualified "UJ".
- Several compounds in the initial calibrations exhibited percent relative standard deviations (%RSD) above QC criteria and several compounds in the continuing calibrations exhibited percent differences (%D) above QC criteria. No qualification of the sample data was performed as all deficient compounds in associated samples were non-detect.

***Package Summary:***

All data are valid and usable with qualifications as noted in this review.



Signed:

\_\_\_\_\_  
Andrew J. Coenen  
ERM QA Officer

Dated: 20 May 2009

Sample Identification  
 TC-PI-MW-08  
 SA91535-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U J	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U J	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-08  
 SA91535-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	107			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-12  
 SA91535-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 15:55

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U J	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-12  
 SA91535-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 15:55

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
			HDS, PH									
100-42-5	Styrene	BDL	U J	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-07  
 SA91535-03

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 16:50

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-07  
 SA91535-03

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 25-Feb-09 16:50

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	86			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	120			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-EB (2/25/09)  
 SA91535-04

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U J	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U J	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-EB (2/25/09)  
 SA91535-04

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 25-Feb-09 14:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	06-Mar-09	06-Mar-09	9030309	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	87			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	106			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-EB (2/26/09)  
 SA91535-05

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 26-Feb-09 08:15

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U J	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-EB (2/26/09)  
 SA91535-05

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 26-Feb-09 08:15

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-03  
 SA91535-06

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 10:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-03  
 SA91535-06

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 10:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
			HDS, PH									
100-42-5	Styrene	BDL	U J	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	107			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-04  
 SA91535-07

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 10:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-04  
 SA91535-07

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 10:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	111			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-123AS  
 SA91535-08

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 11:25

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	27-Feb-09	27-Feb-09	9021950	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	0.7	J	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-123AS  
 SA91535-08

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 11:25

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	27-Feb-09	27-Feb-09	9021950	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	94			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-01  
 SA91535-09

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 12:05

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-01  
 SA91535-09

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 12:05

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	93			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	107			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	112			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	123			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-05  
 SA91535-10

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 12:25

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-05  
 SA91535-10

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 12:25

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	09-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	112			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	122			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-Dup  
 SA91535-11

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 00:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
**TC-P1-Dup**  
 SA91535-11

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 00:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	86			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	106			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	111			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	122			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification

TC-P1-MW-02

SA91535-12

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 13:20

Received

26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U J	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U J	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification

TC-PI-MW-02

SA91535-12

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 13:20

Received

26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	09-Mar-09	10-Mar-09	9030549	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	121			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification

Trip Blank

SA91535-13

Client Project #

0096812

Matrix

Ground Water

Collection Date/Time

26-Feb-09 00:00

Received

26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U J	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 Trip Blank  
 SA91535-13

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 26-Feb-09 00:00

Received  
 26-Feb-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Mar-09	07-Mar-09	9030422	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	120			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	125			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	139	SGC		70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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**DATA USABILITY SUMMARY REPORT (DUSR)  
TECHCITY PROPERTIES INC.  
KINGSTON, NEW YORK  
GROUND WATER SAMPLING  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
PROJECT NUMBER 0096812  
SPECTRUM ANALYTICAL SAMPLE DELIVERY GROUP SA92314**

***Deliverables:***

The above referenced summary data packages and analytical data packages for nine (9) ground water samples, one (1) blind field duplicate sample, one (1) equipment blank, and one (1) trip blank contain all required deliverables as stipulated under the 2005 New York State Analytical Services Protocols (ASP) for Category B deliverables. The sample specific analysis included Target Compound List (TCL) Volatile Organic Compounds (VOC), analyzed in accordance with United States Environmental Protection Agency (USEPA) SW-846 Method 8260B. The data have been validated according to the protocols and quality control (QC) requirements of the ASP, the USEPA CLP National Functional Guidelines for Organic Data Review (October 1999), and the reviewer's professional judgment.

This report pertains to the following ground water samples collected on 17 March 2009 and 18 March 2009:

*Sample ID*

TC-P1-MW-19  
TC-P1-MW-173S  
TC-P1-MW-174S  
TC-P1-MW-20  
TC-P1-MW-609S  
TC-P1-MW-21  
TC-P1-MW-18  
TC-P1-MW-22  
TC-P1-SG-02

*QC Sample ID*

TC-P1-DUP (blind field duplicate of sample TC-P1-MW-20)  
TC-P1-EB (equipment blank)  
Trip Blank

The following items/criteria were reviewed:

- Case narrative and deliverable compliance
- Chain-of-Custody (COC)
- Holding times both technical and procedural and sample preservation (including pH and temperature)
- Surrogate Compound recoveries, summary and data
- Laboratory Control Sample (LCS) recoveries
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Blind Field Duplicate sample results
- Equipment Blank results
- Trip Blank results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra, and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- The Chain-of-Custody (COC) was reviewed for completeness and accuracy. There were no discrepancies observed with the samples presented on the COC. All tests specified on the COC were performed for the designated samples.
- No matrix spike/matrix spike duplicate samples (MS/MSD) samples were submitted to the laboratory. The laboratory provided batch QC data from samples not from this project to fulfill protocol obligations. The batch QC has no bearing on the sample data and is not used for sample validation purposes. LCS data is utilized to determine the quality of the sample data.
- The percent recovery (%R) for chloromethane was below QC criteria in the LCS applicable to sample TC-P1-MW-173S (62% and 63% respectively; QC limit 70-130%). Results for chloromethane in sample TC-P1-MW-173S may be biased low. Chloromethane was not positively identified in sample

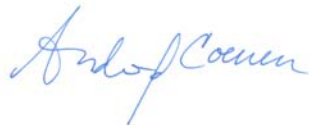


TC-P1-MW-173S therefore the result has been qualified "UJ".

- The concentration for 1,1-dichloroethane exceeded the calibration range of the instrument in sample TC-P1-173S. The laboratory has reported this with an "E" qualifier on the Form I. The sample was reanalyzed at a five-fold (5x) dilution in an effort to quantitate 1,1-dichloroethane. The result for 1,1-dichloroethane should be utilized from the diluted analysis. No qualification of the sample data is required.
- Acetone and 2-butanone were positively identified in the Trip Blank (8.4 µg/l and 3.4 µg/l respectively). These compounds were only positively identified in sample TC-P1-SG-02. Results for Acetone and 2-butanone in sample TC-P1-SG-02 are most likely attributable to blank contamination and have been negated and qualified "U".
- Several compounds in the initial calibrations exhibited percent relative standard deviations (%RSD) above QC criteria and several compounds in the continuing calibrations exhibited percent differences (%D) above QC criteria. No qualification of the sample data was performed as all deficient compounds in associated samples were non-detect.

***Package Summary:***

All data are valid and usable with qualifications as noted in this review.



Signed: \_\_\_\_\_

Andrew J. Coenen  
ERM QA Officer

Dated: 20 May 2009

Sample Identification  
 TC-P1-MW-19  
 SA92314-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 08:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-19  
 SA92314-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 08:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	1.3		µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

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BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-173S  
 SA92314-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 10:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	J		µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
<del>75-34-3</del>	<del>1,1-Dichloroethane</del>	<del>202</del>	<del>E</del>	<del>µg/l</del>	<del>1.0</del>	<del>0.3</del>	<del>1</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>X</del>
107-06-2	1,2-Dichloroethane	3.0		µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	136		µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	9.2		µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

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Sample Identification  
 TC-P1-MW-173S  
 SA92314-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 10:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	15.6		µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	1.5		µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	31.8		µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	1.3		µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	719		µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<u>Surrogate recoveries:</u>												
460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	
<u>Re-analysis of Volatile Organic Compounds</u>												
75-34-3	1,1-Dichloroethane	181	Ⓢ	µg/l	5.0	1.6	5	SW846 8260B	26-Mar-09	26-Mar-09	9031795	X
<u>Surrogate recoveries:</u>												
460-00-4	4-Bromofluorobenzene	80			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	74			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	94			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	

Ⓢ use this result.

This laboratory report is not valid without an authorized signature on the cover page.

\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-174S  
 SA92314-03

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 11:25

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	1.3		µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	3.5		µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	1.1		µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-174S  
 SA92314-03

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 11:25

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	14.8		µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	33.0		µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-20  
 SA92314-04

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 12:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	0.4	J	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-20  
 SA92314-04

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 12:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-609S  
 SA92314-05

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 12:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-609S  
 SA92314-05

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 12:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031389	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 Trip Blank  
 SA92314-06

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 17-Mar-09 13:30

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031391	X
67-64-1	Acetone	8.4	J	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	3.4	J	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-08-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 Trip Blank  
 SA92314-06

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 17-Mar-09 13:30

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	20-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	91			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-21  
 SA92314-07

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 13:35

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-21  
 SA92314-07

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 13:35

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

*This laboratory report is not valid without an authorized signature on the cover page.*

\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-18  
 SA92314-08

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:05

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-18  
 SA92314-08

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:05

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	91			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-MW-22  
 SA92314-09

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-22  
 SA92314-09

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:20

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-DUP  
 SA92314-10

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 00:00

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	0.4	J	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-PI-DUP  
 SA92314-10

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 00:00

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-SG-02  
 SA92314-11

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
67-64-1	Acetone	<del>BDL</del> 40.5	U	µg/l	<del>10.0</del> 40.5	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	<del>BDL</del> 2.4	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-SG-02  
 SA92314-11

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 17-Mar-09 15:45

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	20-Mar-09	21-Mar-09	9031391	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-EB  
 SA92314-12

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 18-Mar-09 15:00

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	19-Mar-09	20-Mar-09	9031308	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-EB  
 SA92314-12

Client Project #  
 0096812

Matrix  
 Deionized Water

Collection Date/Time  
 18-Mar-09 15:00

Received  
 18-Mar-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	19-Mar-09	20-Mar-09	9031308	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	94			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Report Date:  
17-Jun-09 14:55



- Final Report
- Re-Issued Report
- Revised Report

**SPECTRUM ANALYTICAL, INC.**

*Featuring*

**HANIBAL TECHNOLOGY**

***Laboratory Report***

Environmental Resources Management  
5788 Widewaters Pkwy  
Dewitt, NY 13214  
Attn: Kristopher Perritt

Project: Tech City - Kingston, NY  
Project 0096812

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA95562-01	TC-P1-MW-19 (5/09)	Ground Water	28-May-09 15:15	30-May-09 11:13
SA95562-02	TC-P1-MW-20 (5/09)	Ground Water	28-May-09 16:20	30-May-09 11:13

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received. All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110  
Connecticut # PH-0777  
Florida # E87600/E87936  
Maine # MA138  
New Hampshire # 2538  
New Jersey # MA011/MA012  
New York # 11393/11840  
Pennsylvania # 68-04426/68-02924  
Rhode Island # 98  
USDA # S-51435  
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.  
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 16 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

*Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at [www.spectrum-analytical.com](http://www.spectrum-analytical.com) for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).*

*Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.*

**CASE NARRATIVE:**

The samples were received 5.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

During the quality review for SA95562 a QC sample (Continuing Calibration Verification) was found to be out of acceptance due to being incorrectly calculated against the high curve. All data was reprocessed with the correct calibration curve and is being re-issued. This has no affect on sample data, all sample concentrations remain BDL.

**See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.**

**SW846 8260B**

**Blanks:**

9061319-BLK1

---

Analyte quantified by quadratic equation type calibration.

Naphthalene

**Laboratory Control Samples:**

9061319-BS1

---

Analyte quantified by quadratic equation type calibration.

Naphthalene

The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.

1,1,2,2-Tetrachloroethane

1,1,2-Trichlorotrifluoroethane (Freon 113)

9061319-BSD1

---

Analyte quantified by quadratic equation type calibration.

Naphthalene

**Spikes:**

9061319-MS1      *Source: SA95562-01*

---

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene



**SW846 8260B**

**Samples:**

S905258-CCV1

---

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

1,2,3-Trichlorobenzene  
Bromomethane  
Ethanol  
n-Butylbenzene

S905594-CCV1

---

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

1,2,3-Trichlorobenzene  
Bromomethane  
Ethanol  
n-Butylbenzene

Analyte quantified by quadratic equation type calibration.

Naphthalene

This affected the following samples:

TC-P1-MW-19 (5/09)  
TC-P1-MW-20 (5/09)

SA95562-01      *TC-P1-MW-19 (5/09)*

---

Analyte quantified by quadratic equation type calibration.

Naphthalene

SA95562-02      *TC-P1-MW-20 (5/09)*

---

Analyte quantified by quadratic equation type calibration.

Naphthalene

Sample Identification  
**TC-P1-MW-19 (5/09)**  
 SA95562-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 15:15

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	CAL1, U	µg/l	1.0	0.7	1	"	"	"	"	X

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification  
**TC-P1-MW-19 (5/09)**  
 SA95562-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 15:15

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	83			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	112			70-130 %			"	"	"	"	

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Sample Identification  
**TC-P1-MW-20 (5/09)**  
 SA95562-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 16:20

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	CAL1, U	µg/l	1.0	0.7	1	"	"	"	"	X

*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification  
**TC-P1-MW-20 (5/09)**  
 SA95562-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 16:20

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	83			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	113			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	116			70-130 %			"	"	"	"	

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9060479 - SW846 5030 Water MS</b>										
<b>Blank (9060479-BLK1)</b>										
Prepared & Analyzed: 05-Jun-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l	1.0						
Acetone	BRL	U	µg/l	10.0						
Acrylonitrile	BRL	U	µg/l	0.5						
Benzene	BRL	U	µg/l	1.0						
Bromobenzene	BRL	U	µg/l	1.0						
Bromochloromethane	BRL	U	µg/l	1.0						
Bromodichloromethane	BRL	U	µg/l	0.5						
Bromoform	BRL	U	µg/l	1.0						
Bromomethane	BRL	U	µg/l	2.0						
2-Butanone (MEK)	BRL	U	µg/l	10.0						
n-Butylbenzene	BRL	U	µg/l	1.0						
sec-Butylbenzene	BRL	U	µg/l	1.0						
tert-Butylbenzene	BRL	U	µg/l	1.0						
Carbon disulfide	BRL	U	µg/l	5.0						
Carbon tetrachloride	BRL	U	µg/l	1.0						
Chlorobenzene	BRL	U	µg/l	1.0						
Chloroethane	BRL	U	µg/l	2.0						
Chloroform	BRL	U	µg/l	1.0						
Chloromethane	BRL	U	µg/l	2.0						
2-Chlorotoluene	BRL	U	µg/l	1.0						
4-Chlorotoluene	BRL	U	µg/l	1.0						
1,2-Dibromo-3-chloropropane	BRL	U	µg/l	2.0						
Dibromochloromethane	BRL	U	µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL	U	µg/l	0.5						
Dibromomethane	BRL	U	µg/l	1.0						
1,2-Dichlorobenzene	BRL	U	µg/l	1.0						
1,3-Dichlorobenzene	BRL	U	µg/l	1.0						
1,4-Dichlorobenzene	BRL	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l	2.0						
1,1-Dichloroethane	BRL	U	µg/l	1.0						
1,2-Dichloroethane	BRL	U	µg/l	1.0						
1,1-Dichloroethene	BRL	U	µg/l	1.0						
cis-1,2-Dichloroethene	BRL	U	µg/l	1.0						
trans-1,2-Dichloroethene	BRL	U	µg/l	1.0						
1,2-Dichloropropane	BRL	U	µg/l	1.0						
1,3-Dichloropropane	BRL	U	µg/l	1.0						
2,2-Dichloropropane	BRL	U	µg/l	1.0						
1,1-Dichloropropene	BRL	U	µg/l	1.0						
cis-1,3-Dichloropropene	BRL	U	µg/l	0.5						
trans-1,3-Dichloropropene	BRL	U	µg/l	0.5						
Ethylbenzene	BRL	U	µg/l	1.0						
Hexachlorobutadiene	BRL	U	µg/l	0.5						
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	U	µg/l	1.0						

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
<b>Batch 9060479 - SW846 5030 Water MS</b>									
<b>Blank (9060479-BLK1)</b>									
Prepared & Analyzed: 05-Jun-09									
n-Propylbenzene	BRL	U	µg/l	1.0					
Styrene	BRL	U	µg/l	1.0					
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0					
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5					
Tetrachloroethene	BRL	U	µg/l	1.0					
Toluene	BRL	U	µg/l	1.0					
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0					
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0					
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0					
1,1,1-Trichloroethane	BRL	U	µg/l	1.0					
1,1,2-Trichloroethane	BRL	U	µg/l	1.0					
Trichloroethene	BRL	U	µg/l	1.0					
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0					
1,2,3-Trichloropropane	BRL	U	µg/l	1.0					
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0					
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0					
Vinyl chloride	BRL	U	µg/l	1.0					
m,p-Xylene	BRL	U	µg/l	2.0					
o-Xylene	BRL	U	µg/l	1.0					
Tetrahydrofuran	BRL	U	µg/l	10.0					
Ethyl ether	BRL	U	µg/l	1.0					
Tert-amyl methyl ether	BRL	U	µg/l	1.0					
Ethyl tert-butyl ether	BRL	U	µg/l	1.0					
Di-isopropyl ether	BRL	U	µg/l	1.0					
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0					
1,4-Dioxane	BRL	U	µg/l	20.0					
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0					
Ethanol	BRL	U	µg/l	400					
<i>Surrogate: 4-Bromofluorobenzene</i>	39.3		µg/l		50.0		79	70-130	
<i>Surrogate: Toluene-d8</i>	53.2		µg/l		50.0		106	70-130	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	61.6		µg/l		50.0		123	70-130	
<i>Surrogate: Dibromofluoromethane</i>	63.0		µg/l		50.0		126	70-130	
<b>Matrix Spike (9060479-MS1) Source: SA95562-01</b>									
Prepared & Analyzed: 05-Jun-09									
Benzene	19.5		µg/l		20.0	BRL	98	70-130	
Chlorobenzene	21.8		µg/l		20.0	BRL	109	70-130	
1,1-Dichloroethene	17.2		µg/l		20.0	BRL	86	70-130	
Toluene	20.7		µg/l		20.0	BRL	104	70-130	
Trichloroethene	20.1		µg/l		20.0	BRL	101	70-130	
<i>Surrogate: 4-Bromofluorobenzene</i>	54.3		µg/l		50.0		109	70-130	
<i>Surrogate: Toluene-d8</i>	50.7		µg/l		50.0		101	70-130	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.7		µg/l		50.0		93	70-130	
<i>Surrogate: Dibromofluoromethane</i>	48.5		µg/l		50.0		97	70-130	
<b>Matrix Spike Dup (9060479-MSD1) Source: SA95562-01</b>									
Prepared & Analyzed: 05-Jun-09									
Benzene	19.7		µg/l		20.0	BRL	98	70-130	0.7 30
Chlorobenzene	21.6		µg/l		20.0	BRL	108	70-130	0.7 30
1,1-Dichloroethene	17.8		µg/l		20.0	BRL	89	70-130	3 30
Toluene	20.9		µg/l		20.0	BRL	104	70-130	0.7 30
Trichloroethene	20.7		µg/l		20.0	BRL	104	70-130	3 30

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch 9060479 - SW846 5030 Water MS</b>										
<b>Matrix Spike Dup (9060479-MSD1) Source: SA95562-01</b>										
Prepared & Analyzed: 05-Jun-09										
Surrogate: 4-Bromofluorobenzene	54.0		µg/l		50.0		108	70-130		
Surrogate: Toluene-d8	51.1		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	46.7		µg/l		50.0		93	70-130		
Surrogate: Dibromofluoromethane	48.6		µg/l		50.0		97	70-130		
<b>Batch 9061319 - SW846 5030 Water MS</b>										
<b>Blank (9061319-BLK1)</b>										
Prepared & Analyzed: 05-Jun-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	U	µg/l		1.0					
Acetone	BRL	U	µg/l		10.0					
Acrylonitrile	BRL	U	µg/l		0.5					
Benzene	BRL	U	µg/l		1.0					
Bromobenzene	BRL	U	µg/l		1.0					
Bromochloromethane	BRL	U	µg/l		1.0					
Bromodichloromethane	BRL	U	µg/l		0.5					
Bromoform	BRL	U	µg/l		1.0					
Bromomethane	BRL	U	µg/l		2.0					
2-Butanone (MEK)	BRL	U	µg/l		10.0					
n-Butylbenzene	BRL	U	µg/l		1.0					
sec-Butylbenzene	BRL	U	µg/l		1.0					
tert-Butylbenzene	BRL	U	µg/l		1.0					
Carbon disulfide	BRL	U	µg/l		5.0					
Carbon tetrachloride	BRL	U	µg/l		1.0					
Chlorobenzene	BRL	U	µg/l		1.0					
Chloroethane	BRL	U	µg/l		2.0					
Chloroform	BRL	U	µg/l		1.0					
Chloromethane	BRL	U	µg/l		2.0					
2-Chlorotoluene	BRL	U	µg/l		1.0					
4-Chlorotoluene	BRL	U	µg/l		1.0					
1,2-Dibromo-3-chloropropane	BRL	U	µg/l		2.0					
Dibromochloromethane	BRL	U	µg/l		0.5					
1,2-Dibromoethane (EDB)	BRL	U	µg/l		0.5					
Dibromomethane	BRL	U	µg/l		1.0					
1,2-Dichlorobenzene	BRL	U	µg/l		1.0					
1,3-Dichlorobenzene	BRL	U	µg/l		1.0					
1,4-Dichlorobenzene	BRL	U	µg/l		1.0					
Dichlorodifluoromethane (Freon12)	BRL	U	µg/l		2.0					
1,1-Dichloroethane	BRL	U	µg/l		1.0					
1,2-Dichloroethane	BRL	U	µg/l		1.0					
1,1-Dichloroethene	BRL	U	µg/l		1.0					
cis-1,2-Dichloroethene	BRL	U	µg/l		1.0					
trans-1,2-Dichloroethene	BRL	U	µg/l		1.0					
1,2-Dichloropropane	BRL	U	µg/l		1.0					
1,3-Dichloropropane	BRL	U	µg/l		1.0					
2,2-Dichloropropane	BRL	U	µg/l		1.0					
1,1-Dichloropropene	BRL	U	µg/l		1.0					
cis-1,3-Dichloropropene	BRL	U	µg/l		0.5					
trans-1,3-Dichloropropene	BRL	U	µg/l		0.5					
Ethylbenzene	BRL	U	µg/l		1.0					
Hexachlorobutadiene	BRL	U	µg/l		0.5					

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9061319 - SW846 5030 Water MS</b>										
<b><u>Blank (9061319-BLK1)</u></b>										
Prepared & Analyzed: 05-Jun-09										
2-Hexanone (MBK)	BRL	U	µg/l	10.0						
Isopropylbenzene	BRL	U	µg/l	1.0						
4-Isopropyltoluene	BRL	U	µg/l	1.0						
Methyl tert-butyl ether	BRL	U	µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	BRL	U	µg/l	10.0						
Methylene chloride	BRL	U	µg/l	5.0						
Naphthalene	BRL	CAL1, U	µg/l	1.0						
n-Propylbenzene	BRL	U	µg/l	1.0						
Styrene	BRL	U	µg/l	1.0						
1,1,1,2-Tetrachloroethane	BRL	U	µg/l	1.0						
1,1,2,2-Tetrachloroethane	BRL	U	µg/l	0.5						
Tetrachloroethene	BRL	U	µg/l	1.0						
Toluene	BRL	U	µg/l	1.0						
1,2,3-Trichlorobenzene	BRL	U	µg/l	1.0						
1,2,4-Trichlorobenzene	BRL	U	µg/l	1.0						
1,3,5-Trichlorobenzene	BRL	U	µg/l	1.0						
1,1,1-Trichloroethane	BRL	U	µg/l	1.0						
1,1,2-Trichloroethane	BRL	U	µg/l	1.0						
Trichloroethene	BRL	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	BRL	U	µg/l	1.0						
1,2,3-Trichloropropane	BRL	U	µg/l	1.0						
1,2,4-Trimethylbenzene	BRL	U	µg/l	1.0						
1,3,5-Trimethylbenzene	BRL	U	µg/l	1.0						
Vinyl chloride	BRL	U	µg/l	1.0						
m,p-Xylene	BRL	U	µg/l	2.0						
o-Xylene	BRL	U	µg/l	1.0						
Tetrahydrofuran	BRL	U	µg/l	10.0						
Ethyl ether	BRL	U	µg/l	1.0						
Tert-amyl methyl ether	BRL	U	µg/l	1.0						
Ethyl tert-butyl ether	BRL	U	µg/l	1.0						
Di-isopropyl ether	BRL	U	µg/l	1.0						
Tert-Butanol / butyl alcohol	BRL	U	µg/l	10.0						
1,4-Dioxane	BRL	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL	U	µg/l	5.0						
Ethanol	BRL	U	µg/l	400						
Surrogate: 4-Bromofluorobenzene	40.4		µg/l		50.0		81	70-130		
Surrogate: Toluene-d8	52.8		µg/l		50.0		106	70-130		
Surrogate: 1,2-Dichloroethane-d4	59.4		µg/l		50.0		119	70-130		
Surrogate: Dibromofluoromethane	61.4		µg/l		50.0		123	70-130		
<b><u>LCS (9061319-BS1)</u></b>										
Prepared & Analyzed: 05-Jun-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	27.0	QM9	µg/l		20.0		135	70-130		
Acetone	21.7		µg/l		20.0		108	41.6-158		
Acrylonitrile	20.2		µg/l		20.0		101	70-130		
Benzene	24.7		µg/l		20.0		124	70-130		
Bromobenzene	23.9		µg/l		20.0		119	70-130		
Bromochloromethane	20.5		µg/l		20.0		102	70-130		
Bromodichloromethane	23.0		µg/l		20.0		115	70-130		
Bromoform	23.5		µg/l		20.0		118	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9061319 - SW846 5030 Water MS</b>										
<b><u>LCS (9061319-BS1)</u></b>										
Prepared & Analyzed: 05-Jun-09										
Bromomethane	11.8		µg/l		20.0		59	47-147		
2-Butanone (MEK)	21.8		µg/l		20.0		109	60.9-144		
n-Butylbenzene	22.6		µg/l		20.0		113	70-130		
sec-Butylbenzene	24.2		µg/l		20.0		121	70-130		
tert-Butylbenzene	23.1		µg/l		20.0		116	70-130		
Carbon disulfide	20.7		µg/l		20.0		104	70-130		
Carbon tetrachloride	24.9		µg/l		20.0		125	70-130		
Chlorobenzene	22.4		µg/l		20.0		112	70-130		
Chloroethane	21.0		µg/l		20.0		105	63.6-131		
Chloroform	22.2		µg/l		20.0		111	70-130		
Chloromethane	24.4		µg/l		20.0		122	70-130		
2-Chlorotoluene	23.9		µg/l		20.0		120	70-130		
4-Chlorotoluene	23.6		µg/l		20.0		118	70-130		
1,2-Dibromo-3-chloropropane	20.4		µg/l		20.0		102	70-130		
Dibromochloromethane	22.5		µg/l		20.0		113	58.8-145		
1,2-Dibromoethane (EDB)	22.4		µg/l		20.0		112	70-130		
Dibromomethane	20.4		µg/l		20.0		102	70-130		
1,2-Dichlorobenzene	25.8		µg/l		20.0		129	70-130		
1,3-Dichlorobenzene	24.5		µg/l		20.0		122	70-130		
1,4-Dichlorobenzene	21.0		µg/l		20.0		105	70-130		
Dichlorodifluoromethane (Freon12)	19.1		µg/l		20.0		96	56.6-137		
1,1-Dichloroethane	21.7		µg/l		20.0		108	70-130		
1,2-Dichloroethane	20.9		µg/l		20.0		105	70-130		
1,1-Dichloroethene	21.5		µg/l		20.0		108	70-130		
cis-1,2-Dichloroethene	24.3		µg/l		20.0		122	70-130		
trans-1,2-Dichloroethene	20.4		µg/l		20.0		102	70-130		
1,2-Dichloropropane	20.9		µg/l		20.0		105	70-130		
1,3-Dichloropropane	22.1		µg/l		20.0		111	70-130		
2,2-Dichloropropane	23.3		µg/l		20.0		116	70-130		
1,1-Dichloropropene	25.0		µg/l		20.0		125	70-130		
cis-1,3-Dichloropropene	23.0		µg/l		20.0		115	70-130		
trans-1,3-Dichloropropene	20.9		µg/l		20.0		104	70-130		
Ethylbenzene	22.3		µg/l		20.0		112	70-130		
Hexachlorobutadiene	23.5		µg/l		20.0		118	70-134		
2-Hexanone (MBK)	18.6		µg/l		20.0		93	70-130		
Isopropylbenzene	19.6		µg/l		20.0		98	70-130		
4-Isopropyltoluene	23.4		µg/l		20.0		117	70-130		
Methyl tert-butyl ether	21.6		µg/l		20.0		108	70-130		
4-Methyl-2-pentanone (MIBK)	18.1		µg/l		20.0		90	64.8-130		
Methylene chloride	23.2		µg/l		20.0		116	70-130		
Naphthalene	20.4	CAL1	µg/l		20.0		102	70-130		
n-Propylbenzene	22.2		µg/l		20.0		111	70-130		
Styrene	20.4		µg/l		20.0		102	70-130		
1,1,1,2-Tetrachloroethane	23.4		µg/l		20.0		117	70-130		
1,1,1,2,2-Tetrachloroethane	27.3	QM9	µg/l		20.0		137	70-130		
Tetrachloroethene	23.9		µg/l		20.0		120	70-130		
Toluene	22.8		µg/l		20.0		114	70-130		
1,2,3-Trichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,2,4-Trichlorobenzene	22.0		µg/l		20.0		110	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9061319 - SW846 5030 Water MS</b>										
<b><u>LCS (9061319-BS1)</u></b>										
Prepared & Analyzed: 05-Jun-09										
1,3,5-Trichlorobenzene	21.9		µg/l		20.0		110	70-130		
1,1,1-Trichloroethane	23.9		µg/l		20.0		119	70-130		
1,1,2-Trichloroethane	23.7		µg/l		20.0		119	70-130		
Trichloroethene	22.4		µg/l		20.0		112	70-130		
Trichlorofluoromethane (Freon 11)	24.2		µg/l		20.0		121	70-152		
1,2,3-Trichloropropane	25.9		µg/l		20.0		130	70-130		
1,2,4-Trimethylbenzene	22.7		µg/l		20.0		114	70-130		
1,3,5-Trimethylbenzene	22.6		µg/l		20.0		113	70-130		
Vinyl chloride	19.2		µg/l		20.0		96	70-130		
m,p-Xylene	47.4		µg/l		40.0		118	70-130		
o-Xylene	24.8		µg/l		20.0		124	70-130		
Tetrahydrofuran	21.2		µg/l		20.0		106	70-130		
Ethyl ether	22.2		µg/l		20.0		111	70-133		
Tert-amyl methyl ether	21.3		µg/l		20.0		106	70-130		
Ethyl tert-butyl ether	24.3		µg/l		20.0		122	70-130		
Di-isopropyl ether	23.5		µg/l		20.0		118	70-130		
Tert-Butanol / butyl alcohol	202		µg/l		200		101	70-130		
1,4-Dioxane	200		µg/l		200		100	53.1-139		
trans-1,4-Dichloro-2-butene	21.0		µg/l		20.0		105	70-130		
Ethanol	413		µg/l		400		103	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>57.6</i>		<i>µg/l</i>		<i>50.0</i>		<i>115</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>50.1</i>		<i>µg/l</i>		<i>50.0</i>		<i>100</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.9</i>		<i>µg/l</i>		<i>50.0</i>		<i>96</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>49.6</i>		<i>µg/l</i>		<i>50.0</i>		<i>99</i>	<i>70-130</i>		
<b><u>LCS Dup (9061319-BSD1)</u></b>										
Prepared & Analyzed: 05-Jun-09										
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.4		µg/l		20.0		117	70-130	14	25
Acetone	21.4		µg/l		20.0		107	41.6-158	1	50
Acrylonitrile	19.4		µg/l		20.0		97	70-130	4	25
Benzene	22.5		µg/l		20.0		113	70-130	9	25
Bromobenzene	22.6		µg/l		20.0		113	70-130	5	25
Bromochloromethane	20.6		µg/l		20.0		103	70-130	0.6	25
Bromodichloromethane	22.0		µg/l		20.0		110	70-130	5	25
Bromoform	22.7		µg/l		20.0		113	70-130	4	25
Bromomethane	10.2		µg/l		20.0		51	47-147	15	50
2-Butanone (MEK)	23.7		µg/l		20.0		119	60.9-144	8	50
n-Butylbenzene	21.1		µg/l		20.0		105	70-130	7	25
sec-Butylbenzene	22.0		µg/l		20.0		110	70-130	10	25
tert-Butylbenzene	21.3		µg/l		20.0		106	70-130	8	25
Carbon disulfide	18.6		µg/l		20.0		93	70-130	11	25
Carbon tetrachloride	22.4		µg/l		20.0		112	70-130	11	25
Chlorobenzene	20.9		µg/l		20.0		105	70-130	7	25
Chloroethane	18.7		µg/l		20.0		94	63.6-131	12	50
Chloroform	21.1		µg/l		20.0		105	70-130	5	25
Chloromethane	21.5		µg/l		20.0		107	70-130	13	25
2-Chlorotoluene	22.4		µg/l		20.0		112	70-130	7	25
4-Chlorotoluene	21.6		µg/l		20.0		108	70-130	9	25
1,2-Dibromo-3-chloropropane	19.9		µg/l		20.0		99	70-130	3	25
Dibromochloromethane	22.0		µg/l		20.0		110	58.8-145	2	50
1,2-Dibromoethane (EDB)	22.0		µg/l		20.0		110	70-130	2	25

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
<b>Batch 9061319 - SW846 5030 Water MS</b>									
<b><u>LCS Dup (9061319-BSD1)</u></b>									
Prepared & Analyzed: 05-Jun-09									
Dibromomethane	19.5		µg/l		20.0		98 70-130	4	25
1,2-Dichlorobenzene	24.8		µg/l		20.0		124 70-130	4	25
1,3-Dichlorobenzene	22.8		µg/l		20.0		114 70-130	7	25
1,4-Dichlorobenzene	19.8		µg/l		20.0		99 70-130	6	25
Dichlorodifluoromethane (Freon12)	16.8		µg/l		20.0		84 56.6-137	13	50
1,1-Dichloroethane	19.7		µg/l		20.0		98 70-130	10	25
1,2-Dichloroethane	19.6		µg/l		20.0		98 70-130	7	25
1,1-Dichloroethene	19.4		µg/l		20.0		97 70-130	10	25
cis-1,2-Dichloroethene	24.2		µg/l		20.0		121 70-130	0.7	25
trans-1,2-Dichloroethene	18.5		µg/l		20.0		93 70-130	10	25
1,2-Dichloropropane	20.1		µg/l		20.0		101 70-130	4	25
1,3-Dichloropropane	21.5		µg/l		20.0		108 70-130	3	25
2,2-Dichloropropane	21.4		µg/l		20.0		107 70-130	9	25
1,1-Dichloropropene	20.7		µg/l		20.0		104 70-130	19	25
cis-1,3-Dichloropropene	22.2		µg/l		20.0		111 70-130	4	25
trans-1,3-Dichloropropene	20.4		µg/l		20.0		102 70-130	2	25
Ethylbenzene	20.8		µg/l		20.0		104 70-130	7	25
Hexachlorobutadiene	21.2		µg/l		20.0		106 70-134	11	50
2-Hexanone (MBK)	18.6		µg/l		20.0		93 70-130	0.3	25
Isopropylbenzene	18.1		µg/l		20.0		90 70-130	8	25
4-Isopropyltoluene	21.6		µg/l		20.0		108 70-130	8	25
Methyl tert-butyl ether	20.8		µg/l		20.0		104 70-130	4	25
4-Methyl-2-pentanone (MIBK)	18.3		µg/l		20.0		92 64.8-130	1	50
Methylene chloride	22.9		µg/l		20.0		114 70-130	1	25
Naphthalene	20.2	CAL1	µg/l		20.0		101 70-130	1	25
n-Propylbenzene	20.1		µg/l		20.0		100 70-130	10	25
Styrene	19.2		µg/l		20.0		96 70-130	6	25
1,1,1,2-Tetrachloroethane	22.4		µg/l		20.0		112 70-130	4	25
1,1,1,2,2-Tetrachloroethane	26.1		µg/l		20.0		130 70-130	5	25
Tetrachloroethene	23.1		µg/l		20.0		115 70-130	4	25
Toluene	21.3		µg/l		20.0		106 70-130	7	25
1,2,3-Trichlorobenzene	20.2		µg/l		20.0		101 70-130	2	25
1,2,4-Trichlorobenzene	21.3		µg/l		20.0		107 70-130	3	25
1,3,5-Trichlorobenzene	21.2		µg/l		20.0		106 70-130	3	25
1,1,1-Trichloroethane	21.1		µg/l		20.0		106 70-130	12	25
1,1,2-Trichloroethane	23.2		µg/l		20.0		116 70-130	2	25
Trichloroethene	21.5		µg/l		20.0		108 70-130	4	25
Trichlorofluoromethane (Freon 11)	21.4		µg/l		20.0		107 70-152	12	50
1,2,3-Trichloropropane	25.5		µg/l		20.0		127 70-130	2	25
1,2,4-Trimethylbenzene	20.8		µg/l		20.0		104 70-130	9	25
1,3,5-Trimethylbenzene	20.5		µg/l		20.0		102 70-130	10	25
Vinyl chloride	17.2		µg/l		20.0		86 70-130	11	25
m,p-Xylene	43.9		µg/l		40.0		110 70-130	8	25
o-Xylene	22.4		µg/l		20.0		112 70-130	10	25
Tetrahydrofuran	21.9		µg/l		20.0		110 70-130	3	25
Ethyl ether	22.1		µg/l		20.0		111 70-133	0.09	50
Tert-amyl methyl ether	21.3		µg/l		20.0		106 70-130	0.05	25
Ethyl tert-butyl ether	24.2		µg/l		20.0		121 70-130	0.5	25
Di-isopropyl ether	24.1		µg/l		20.0		121 70-130	2	25

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 9061319 - SW846 5030 Water MS</b>										
<b><u>LCS Dup (9061319-BSD1)</u></b>										
Prepared & Analyzed: 05-Jun-09										
Tert-Butanol / butyl alcohol	204		µg/l		200		102	70-130	0.7	25
1,4-Dioxane	212		µg/l		200		106	53.1-139	6	25
trans-1,4-Dichloro-2-butene	20.8		µg/l		20.0		104	70-130	1	25
Ethanol	404		µg/l		400		101	70-130	2	30
Surrogate: 4-Bromofluorobenzene	56.4		µg/l		50.0		113	70-130		
Surrogate: Toluene-d8	50.0		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	45.1		µg/l		50.0		90	70-130		
Surrogate: Dibromofluoromethane	49.3		µg/l		50.0		99	70-130		
<b><u>Matrix Spike (9061319-MS1)</u></b> <b>Source: SA95562-01</b>										
Prepared & Analyzed: 05-Jun-09										
Benzene	20.3		µg/l		20.0	BRL	102	70-130		
Chlorobenzene	21.5		µg/l		20.0	BRL	107	70-130		
1,1-Dichloroethene	13.8	QM7	µg/l		20.0	BRL	69	70-130		
Toluene	21.0		µg/l		20.0	BRL	105	70-130		
Trichloroethene	20.3		µg/l		20.0	BRL	101	70-130		
Surrogate: 4-Bromofluorobenzene	55.8		µg/l		50.0		112	70-130		
Surrogate: Toluene-d8	50.3		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	45.0		µg/l		50.0		90	70-130		
Surrogate: Dibromofluoromethane	47.3		µg/l		50.0		95	70-130		
<b><u>Matrix Spike Dup (9061319-MSD1)</u></b> <b>Source: SA95562-01</b>										
Prepared & Analyzed: 05-Jun-09										
Benzene	20.5		µg/l		20.0	BRL	102	70-130	0.6	30
Chlorobenzene	21.3		µg/l		20.0	BRL	107	70-130	0.7	30
1,1-Dichloroethene	14.3		µg/l		20.0	BRL	71	70-130	3	30
Toluene	21.1		µg/l		20.0	BRL	106	70-130	0.7	30
Trichloroethene	20.9		µg/l		20.0	BRL	104	70-130	3	30
Surrogate: 4-Bromofluorobenzene	55.5		µg/l		50.0		111	70-130		
Surrogate: Toluene-d8	50.7		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	45.0		µg/l		50.0		90	70-130		
Surrogate: Dibromofluoromethane	47.3		µg/l		50.0		95	70-130		

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## Notes and Definitions

CAL1	Analyte quantified by quadratic equation type calibration.
CAL2	Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
U	Analyte included in the analysis, but not detected
BDL	Below Detection Limit - Analyte NOT DETECTED at or above the minimum detection limit
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:  
Hanibal C. Tayeh, Ph.D.  
Rebecca Merz



**SPECTRUM ANALYTICAL, INC.**  
 Foundry  
 ANALYTICAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

Page 1 of 1

SASS102 OK

- Special Handling:**
- Standard TAT - 7 to 10 business days
  - Rush TAT - Date Needed: \_\_\_\_\_
  - All TATs subject to laboratory approval
  - Min. 24-hour notification needed for meshes
  - Samples disposed of after 60 days unless otherwise instructed.

Report To: EKL  
5788 Weddowors Rdwy.  
Duane, NY 13814

Invoice To: SAWE  
Special Rates Please

Project No.: 0096812

Project Mgr.: Kris Peritt

P.O. No.: \_\_\_\_\_ RQN: \_\_\_\_\_

Site Name: Tech City  
 Location: Kingston State: NY  
 Sampler(s): J. Elder, M. Nigro

Telephone #: 315 445-8554

- 1 = Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> 2 = HCl 3 = H<sub>2</sub>SO<sub>4</sub> 4 = HNO<sub>3</sub> 5 = NaOH 6 = Ascorbic Acid 7 = CH<sub>3</sub>OH
- 8 = NaHSO<sub>4</sub> 9 = Ice 10 = \_\_\_\_\_ 11 = \_\_\_\_\_

Containers:

List preservative code below: 2

QA/QC Reporting Notes:  
 (check as needed)

- DW = Drinking Water GW = Groundwater WW = Wastewater
- O = Oil SW = Surface Water SO = Soil SL = Sludge A = Air
- X1 = \_\_\_\_\_ X2 = \_\_\_\_\_ X3 = \_\_\_\_\_

G = Grab C = Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analytes:	QA/QC Reporting Notes: (check as needed)
<u>1</u>	<u>OTC-P1-MJ-205109</u>	<u>5/28/09</u>	<u>1620</u>	<u>G</u>	<u>3</u>	<u>3</u>				<u>VOC 8260</u>	

Category B  
 Deliverable  
 Please

- Provide MIA DEP MCP CAM Report
- Provide CI DPH RCP Report
- QA/QC Reporting Level
- Standard  No QC
- Other \_\_\_\_\_

State specific reporting standards:

EDD Format \_\_\_\_\_  
 E-mail to \_\_\_\_\_

Relinquished by: [Signature]

Received by: [Signature]

Date: 5/29/09 Time: 1200

Condition upon receipt:  Fined  Ambient  S-G

**DATA USABILITY SUMMARY REPORT (DUSR)  
TECHCITY PROPERTIES INC.  
KINGSTON, NEW YORK  
GROUND WATER SAMPLING  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
PROJECT NUMBER 0096812  
SPECTRUM ANALYTICAL SAMPLE DELIVERY GROUP SA95562**

***Deliverables:***

The above referenced data package for two (2) ground water samples contain all required deliverables as stipulated under the 2005 New York State Analytical Services Protocols (ASP) for Category B deliverables. The sample specific analysis included Target Compound List (TCL) Volatile Organic Compounds (VOC), analyzed in accordance with United States Environmental Protection Agency (USEPA) SW-846 Method 8260B. The data have been validated according to the protocols and quality control (QC) requirements of the ASP, the USEPA CLP National Functional Guidelines for Organic Data Review (October 1999), and the reviewer's professional judgment.

This report pertains to the following ground water samples collected on 28 May 2009:

*Sample ID*

TC-P1-MW-19  
TC-P1-MW-20

*QC Sample ID*

TC-P1-MW-19 MS/MSD (lab selected batch QC)

The following items/criteria were reviewed:

- Case narrative and deliverable compliance
- Chain-of-Custody (COC)
- Holding times both technical and procedural and sample preservation (including pH and temperature)
- Surrogate Compound recoveries, summary and data
- Matrix Spike/Matrix Spike Duplicate sample (MS/MSD) recoveries
- Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Method blank summary and data



- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra, and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- The Chain-of-Custody (COC) was reviewed for completeness and accuracy. There were no discrepancies observed with the samples presented on the COC. All tests specified on the COC were performed for the designated samples.
- No matrix spike/matrix spike duplicate samples (MS/MSD) samples were submitted to the laboratory. The laboratory provided selected sample TC-P1-MW-19 for batch QC data to fulfill protocol obligations.
- The percent recovery (%R) for 1,1-dichloroethene was below QC criteria in the MS analyzed on sample TC-P1-MW-19 (69%; QC limit 70-130%). Qualification of data is not performed based on MS/MSD results alone. The result for 1,1-dichloroethene in sample TC-P1-MW-19 only may be biased low. 1,1-dichloroethene was not positively identified in sample TC-P1-MW-19 and therefore has been qualified "UJ".
- The %R for Freon 113 and 1,1,2,2-tetrachloroethane was above QC criteria in the LCS applicable to samples TC-P1-MW-19 and TC-P1-MW-20 (135% and 137% respectively; QC limit 70-130%). Results for Freon 113 and 1,1,2,2-tetrachloroethane in samples TC-P1-MW-19 and TC-P1-MW-20 may be biased high. Freon 113 and 1,1,2,2-tetrachloroethane were not positively identified in samples TC-P1-MW-19 and TC-P1-MW-20 therefore the results do not require qualification.

- The laboratory has noted that naphthalene was quantified using a quadratic equation has added "CAL 1" to the Form I to indicate this. "CAL 1" has been crossed off by the reviewer. The data does not require qualification.
- Several compounds in the continuing calibration exhibited percent differences (%D) above QC criteria. No qualification of the sample data was performed as all deficient compounds in associated samples were non-detect.

***Package Summary:***

All data are valid and usable with qualifications as noted in this review.



Signed:

\_\_\_\_\_  
Andrew J. Coenen  
ERM QA Officer

Dated: 6 July 2009

Sample Identification  
 TC-PI-MW-19 (5/09)  
 SA95562-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 15:15

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-19 (5/09)  
 SA95562-01

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 15:15

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	83			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	112			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-20 (5/09)  
 SA95562-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 16:20

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BDL	U	µg/l	1.0	0.4	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
67-64-1	Acetone	BDL	U	µg/l	10.0	2.6	1	"	"	"	"	X
107-13-1	Acrylonitrile	BDL	U	µg/l	0.5	0.5	1	"	"	"	"	X
71-43-2	Benzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-86-1	Bromobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
74-97-5	Bromochloromethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
75-27-4	Bromodichloromethane	BDL	U	µg/l	0.5	0.3	1	"	"	"	"	X
75-25-2	Bromoform	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
74-83-9	Bromomethane	BDL	U	µg/l	2.0	1.6	1	"	"	"	"	X
78-93-3	2-Butanone (MEK)	BDL	U	µg/l	10.0	2.4	1	"	"	"	"	X
104-51-8	n-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
75-15-0	Carbon disulfide	BDL	U	µg/l	5.0	0.3	1	"	"	"	"	X
56-23-5	Carbon tetrachloride	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
108-90-7	Chlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-00-3	Chloroethane	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
67-66-3	Chloroform	BDL	U	µg/l	1.0	0.8	1	"	"	"	"	X
74-87-3	Chloromethane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
95-49-8	2-Chlorotoluene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
106-43-4	4-Chlorotoluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
124-48-1	Dibromochloromethane	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
74-95-3	Dibromomethane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon 12)	BDL	U	µg/l	2.0	0.6	1	"	"	"	"	X
75-34-3	1,1-Dichloroethane	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
107-06-2	1,2-Dichloroethane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
75-35-4	1,1-Dichloroethene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
78-87-5	1,2-Dichloropropane	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
142-28-9	1,3-Dichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
594-20-7	2,2-Dichloropropane	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
563-58-6	1,1-Dichloropropene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
87-68-3	Hexachlorobutadiene	BDL	U	µg/l	0.5	0.4	1	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	BDL	U	µg/l	10.0	0.5	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	X
75-09-2	Methylene chloride	BDL	U	µg/l	5.0	0.6	1	"	"	"	"	X
91-20-3	Naphthalene	BDL	<del>CAL1</del> U	µg/l	1.0	0.7	1	"	"	"	"	X

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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Sample Identification  
 TC-P1-MW-20 (5/09)  
 SA95562-02

Client Project #  
 0096812

Matrix  
 Ground Water

Collection Date/Time  
 28-May-09 16:20

Received  
 30-May-09

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
<b>Volatile Organic Compounds</b>												
<u>Volatile Organic Compounds</u>												
Prepared by method SW846 5030 Water MS												
103-65-1	n-Propylbenzene	BDL	U	µg/l	1.0	0.6	1	SW846 8260B	05-Jun-09	06-Jun-09	9061319	X
100-42-5	Styrene	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	BDL	U	µg/l	0.5	0.2	1	"	"	"	"	X
127-18-4	Tetrachloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
108-88-3	Toluene	BDL	U	µg/l	1.0	0.6	1	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
79-01-6	Trichloroethene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BDL	U	µg/l	1.0	0.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
75-01-4	Vinyl chloride	BDL	U	µg/l	1.0	0.9	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BDL	U	µg/l	2.0	0.7	1	"	"	"	"	X
95-47-6	o-Xylene	BDL	U	µg/l	1.0	0.5	1	"	"	"	"	X
109-99-9	Tetrahydrofuran	BDL	U	µg/l	10.0	0.4	1	"	"	"	"	
60-29-7	Ethyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	
994-05-8	Tert-amyl methyl ether	BDL	U	µg/l	1.0	0.4	1	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
108-20-3	Di-isopropyl ether	BDL	U	µg/l	1.0	0.3	1	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	BDL	U	µg/l	10.0	7.4	1	"	"	"	"	X
123-91-1	1,4-Dioxane	BDL	U	µg/l	20.0	4.9	1	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	BDL	U	µg/l	5.0	2.5	1	"	"	"	"	X
64-17-5	Ethanol	BDL	U	µg/l	400	73.4	1	"	"	"	"	X
<i>Surrogate recoveries:</i>												
460-00-4	4-Bromofluorobenzene	83			70-130 %			"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	113			70-130 %			"	"	"	"	
1868-53-7	Dibromofluoromethane	116			70-130 %			"	"	"	"	

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\* Reportable Detection Limit

BDL = Below Detection Limit

BRL = Below Reporting Limit

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*APPENDIX G*

*Sub-Slab, Soil Vapor, Indoor Air, &  
Outdoor Air Sampling Forms*



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #:  
 Project Name:  
 Location:  
 Project Manager:

Sample Location:	TC-PI- <del>50</del> -01	Collector(s):	K. P. ...
Address:	Town City	Building No.:	J. ...
PID Meter Used: (Model, Serial #)			

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	/	Canister Serial No.:	749	Canister Serial No.:	1039
Flow Controller Id No.:	/	Flow Controller Id No.:	0256	Flow Controller Id No.:	0250
Start Date/Time:	/	Start Date/Time:	3/16/09 / 1100	Start Date/Time:	3/16/09 / 1100
Start Pressure: (inches Hg)	/	Start Pressure: (inches Hg)	-30" +	Start Pressure: (inches Hg)	-30"
Stop Date/Time:	/	Stop Date/Time:	1815 / 3/16/09	Stop Date/Time:	1845 / 3/16/09
Stop Pressure: (inches Hg)	/	Stop Pressure: (inches Hg)	-5	Stop Pressure: (inches Hg)	-4"
Sample ID:	/	Sample ID:	TC-PI- <del>50</del> -01	Sample ID:	TC-PI- <del>50</del> -01

**Other Sampling Information:**

Story/Level	/	Basement, Crawl Space or Ground Surface?		Direction from Building	
Room	/	Floor Slab Thickness (inches) [if present]		Distance from Building	
Indoor Air Temp (°F)	/	Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)	/	Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?	/	Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)	/	PID Reading (ppm)		PID Reading (ppm)	
Barometric Pressure ("Hg or mb)	/	Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?	/	Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
	/	Duplicate Sample?			

**Comments:**

LEAK TEST: STRAIN PROP      PURGE      RUST

95%      500-30ppm      15%

Continuous Flow: 75%      1000-275 ppm      15%

BLIND DUPE: AMBIENT AIR      TC-PI-~~50~~-01

START: -30" +      START 1100

STOP: -5"      STOP 1815

CALL: 981

PC: 0243

Signature: \_\_\_\_\_





**Environmental Resources Management**  
**5788 Widewaters Parkway**  
**Dewitt, New York 13214**  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #:  
 Project Name:  
 Location:  
 Project Manager:

Sample Location:	TC-PWA-ASG-01	Collector(s):	
Address:			
PID Meter Used: (Model, Serial #)		Building No:	

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:		Canister Serial No.:	8910	Canister Serial No.:	
Flow Controller Id No:		Flow Controller Id No:	130	Flow Controller Id No:	
Start Date/Time:		Start Date/Time:	3/16/09 1237	Start Date/Time:	
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-3.5"	Start Pressure: (inches Hg)	
Stop Date/Time:		Stop Date/Time:	1825 / 3/16/09	Stop Date/Time:	
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-5"	Stop Pressure: (inches Hg)	
Sample ID:		Sample ID:	TC-PWA-ASG-01	Sample ID:	

**Other Sampling Information:**

Story/Level		Basement, Crawl Space or Ground Surface?		Direction from Building	
Room		Floor Slab Thickness (inches) [if present]		Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?		Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)		PID Reading (ppm)		PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?		Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?			

**Comments:**

6.5% continuous flow	1200ppm max	34%	1234	3/16/09	✓
6.5% cont. flow	0-2200ppm max	17%	1825	3/16/09	✓

Signature: \_\_\_\_\_



**Environmental Resources Management**  
**5788 Widewaters Parkway**  
**Dewitt, New York 13214**  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #:  
 Project Name:  
 Location:  
 Project Manager:

Sample Location:	<u>ASG TC-P4A-ASG-02</u>	Collector(s):	
Address:			
PID Meter Used: (Model, Serial #)		Building No:	

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:		Canister Serial No.:	<u>849</u>	Canister Serial No.:	
Flow Controller Id No:		Flow Controller Id No:	<u>0272</u>	Flow Controller Id No:	
Start Date/Time:		Start Date/Time:	<u>1225 / 3/16/09</u>	Start Date/Time:	
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	<u>-30"</u>	Start Pressure: (inches Hg)	
Stop Date/Time:		Stop Date/Time:	<u>1830 / 3/16/09</u>	Stop Date/Time:	
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	<u>-5</u>	Stop Pressure: (inches Hg)	
Sample ID:		Sample ID:	<u>TC-P4A-ASG-02</u>	Sample ID:	

**Other Sampling Information:**

Story/Level		Basement, Crawl Space or Ground Surface?		Direction from Building	
Room		Floor Slab Thickness (inches) [if present]		Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?		Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)		PID Reading (ppm)		PID Reading (ppm)	
Barometric Pressure (*Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?		Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?			

**Comments:**

<u>Continuity of flow</u>	<u>51 ppm</u>	<u>90%</u>	<u>0 ppm</u>	<u>55%</u>	<u>1225 3/16/09</u>
<u>continuous</u>	<u>65%</u>	<u>0 ppm</u>	<u>20%</u>		

Signature: \_\_\_\_\_



Environmental Resources Management  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #:  
 Project Name:  
 Location:  
 Project Manager:

Sample Location:	TC-P4A-ASG-03	Collector(s):	
Address:			
PID Meter Used: (Model, Serial #)		Building No:	

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:		Canister Serial No.:	733	Canister Serial No.:	
Flow Controller Id No:		Flow Controller Id No:	0175	Flow Controller Id No:	
Start Date/Time:		Start Date/Time:	1215 / 3/16/09	Start Date/Time:	
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-28"	Start Pressure: (inches Hg)	
Stop Date/Time:		Stop Date/Time:	1730 / 3/16/09	Stop Date/Time:	
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-4"	Stop Pressure: (inches Hg)	
Sample ID:		Sample ID:	TC-P4A-ASG-03	Sample ID:	

Other Sampling Information:					
Story/Level		Basement, Crawl Space or Ground Surface?		Direction from Building	
Room		Floor Slab Thickness (inches) [if present]		Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?		Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)		PID Reading (ppm)		PID Reading (ppm)	
Barometric Pressure (°Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?		Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?			

Comments:

LEAK TEST:	Pre	Purge	Post		
	100%	6%			
	82%	5.5%			
continuous flow	90%	4.3%	55%	sun	1210 3/16/09
		6.5% max	1.7 → 4.8%		
Signature:	continuous flow 75%	9.5%	60%		





**Environmental Resources Management**  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #:  
 Project Name:  
 Location:  
 Project Manager:

Sample Location:	TC-P4A- <del>ASG</del> -04	Collector(s):	
Address:			
PID Meter Used: (Model, Serial #)		Building No:	

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:		Canister Serial No.:	817	Canister Serial No.:	1538
Flow Controller Id No:		Flow Controller Id No:	0093	Flow Controller Id No:	0022
Start Date/Time:		Start Date/Time:	3/16/09 / 1140	Start Date/Time:	3/16/09 / 1145
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-26"	Start Pressure: (inches Hg)	-30"+
Stop Date/Time:		Stop Date/Time:	1835 / 3/16/09	Stop Date/Time:	1830
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-5	Stop Pressure: (inches Hg)	-4"
Sample ID:		Sample ID:	TC-P4A- <del>ASG</del> -04	Sample ID:	TC-P4A-0A-01/02

**Other Sampling Information:**

Story/Level		Basement, Crawl Space or Ground Surface?		Direction from Building	
Room		Floor Slab Thickness (inches) [if present]		Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?		Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)		PID Reading (ppm)		PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?		Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?			

**Comments:**

LEAK TEST:	PRE	POST	POST		
	88%	2.1%	20%	2 min. purge	11/5 3/16/09
TRAPPER SWIT	96%	4.5%	11.2%		
SUB PRESS MONITOR	78%	2500 ppm	18.2%	3 min. purge	11/5
TURBINE					
CONDENSERS	65%	2400 ppm	25%	3 min.	#1840 3/16/09

Signature: \_\_\_\_\_



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 090812  
 Project Name: Tech city  
 Location: Kingston NY  
 Project Manager: Kris Perritt

Sample Location:	TC-PI-SS-01	Collector(s):	KP SS	Stair well (SE end)
Address:	Kingston NY	Building No:	BoFA #	201
PID Meter Used: (Model, Serial #)	Mini Rae 2000 (R3566)			

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	696	Canister Serial No.:	658	Canister Serial No.:	
Flow Controller Id No:	0337	Flow Controller Id No:	0394	Flow Controller Id No:	
Start Date/Time:	03/13/09 0820	Start Date/Time:	3/13/09 0820	Start Date/Time:	1120
Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-29"	Start Pressure: (inches Hg)	
Stop Date/Time:	1530	Stop Date/Time:	1430	Stop Date/Time:	
Stop Pressure: (inches Hg)	-6"	Stop Pressure: (inches Hg)	-3.5	Stop Pressure: (inches Hg)	
Sample ID:	TC-PI-IA-01 ✓	Sample ID:	TC-PI-SS-01 ✓	Sample ID:	

**Other Sampling Information:**

Story/Level	15 <sup>th</sup> Floor	Basement, Crawl Space or Ground Surface?	SLAB ON GROUND	Direction from Building	
Room	STAIRWELL	Floor Slab Thickness (inches) [if present]	~10"	Distance from Building	
Indoor Air Temp (°F)	~70°F	Potential Vapor Entry Points Observed?	No	Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)	4'	Ground Surface Condition	good	Intake Tubing used?	
Noticeable Odor?	No	Intake depth (ft. relative to floor level or ground surface)	10"	Distance to nearest Roadway (ft.)	
PID Reading (ppm)	0.0	PID Reading (ppm)	0.0 or 7.15	PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?	No	Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?	No		

**Comments:**

Leak Test 1:	95%	4600 ppm	~20%	re-sealed w/ cap
Leak test 2:	START	PURGE	POST PURGE	
Leak test 3:	67%	0 ppm	70%	on 3/12 @ 9:45
	4'	325 ppm	12%	3/13 @ 8:15
	T:	8200 → 12,400 ppm	95% + continuous	3/13 10:55

Signature: [Signature]



Environmental Resources Management  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0090812  
 Project Name: Tech City  
 Location: Kingston NY  
 Project Manager: kris ferritt

Sample Location:	TC-PI-SS-02	Collector(s):	KP SS	Stairwell (sw end)
Address:	Kingston NY	Building No:	B of A	# 201
PID Meter Used: (Model, Serial #)	Mini Rae 200 (R3566)			

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	1537	Canister Serial No.:	883	Canister Serial No.:	
Flow Controller Id No:	0299	Flow Controller Id No:	383	Flow Controller Id No:	
Start Date/Time:	03/13/09 0805	Start Date/Time:	0805 3/13/09	Start Date/Time:	
Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	
Stop Date/Time:	03/13/09 / 1515	Stop Date/Time:	1350	Stop Date/Time:	
Stop Pressure: (inches Hg)	-6"	Stop Pressure: (inches Hg)	-4"	Stop Pressure: (inches Hg)	
Sample ID:	TC-PI-IA-02 ✓	Sample ID:	TC-PI-SS-02 ✓	Sample ID:	

IA SS  
 -20 -15  
 IA = -12 & 1.50 ppm

**Other Sampling Information:**

Story/Level	1 <sup>st</sup>	Basement, Crawl Space or Ground Surface?	SLAB	Direction from Building	
Room	Stairwell	Floor Slab Thickness (inches) [if present]	~ 8"	Distance from Building	
Indoor Air Temp (°F)	~80°F	Potential Vapor Entry Points Observed?	No	Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)	4'	Ground Surface Condition	good	Intake Tubing used?	
Noticeable Odor?	No	Intake depth (ft. relative to floor level or ground surface)	10"	Distance to nearest Roadway (ft.)	
PID Reading (ppm)	0.0	PID Reading (ppm)	0.0 0.313	PID Reading (ppm)	
Barometric Pressure (°Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?	No	Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?			

**Comments:**

Leak Test 1: filled shroud to 95%

Leak Test 2:	START	PURGE	POST PURGE	
	95%	0-500 ppm	25%	0915 3/12
Leak Test 3:	90%	0-500 ppm	30%	0920 3/12
TEST 4:	90%	450 ppm	15%	0805 3/13
TEST 5:	95%	950 ppm	10%	03/13 12:45

Signature: [Signature]





**Environmental Resources Management**  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0096B12  
 Project Name: Tech city  
 Location: Kingston NY  
 Project Manager: Kris Permitt

Sample Location:	TC-PI-SS-03	Collector(s):	Stair well
Address:	Kingston NY	1st SS	(glassed in by break room)
PID Meter Used: (Model, Serial #)	# Mini Rae 2000 (P3566)	Building No:	# 202
		BoFA	Stair-Local

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	997	Canister Serial No.:	569	Canister Serial No.:	1621
Flow Controller Id No:	0213	Flow Controller Id No:	0031	Flow Controller Id No:	0356
Start Date/Time:	03/13/09 / 0905	Start Date/Time:	3/13/09 / 0905	Start Date/Time:	03/13/09 / 0915
Start Pressure: (inches Hg)	-30" ±	Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-30" ±
Stop Date/Time:	03/13/09 / 1635	Stop Date/Time:	3/13/09 / 1500	Stop Date/Time:	3/13/09 / 1625
Stop Pressure: (inches Hg)	-5"	Stop Pressure: (inches Hg)	-5"	Stop Pressure: (inches Hg)	-4"
Sample ID:	TC-PI-IA-03 ✓	Sample ID:	TC-PI-SS-03 ✓	Sample ID:	TC-PI-OA-01 ✓

break room)  
Stair-Local

1125  
SS-IA at  
20-25 25  
SS IA  
-11 -14

**Other Sampling Information:**

Story/Level	1st	Basement, Crawl Space or Ground Surface?	Slab on grade	Direction from Building	NW
Room	Stairwell	Floor Slab Thickness (inches) [if present]	~18"	Distance from Building	25'
Indoor Air Temp (°F)	70°F	Potential Vapor Entry Points Observed?	No	Intake Height Above Ground Level (ft.)	3'
Intake Height Above Floor Level (ft.)	4'	Ground Surface Condition	Good	Intake Tubing used?	No
Noticeable Odor?	No	Intake depth (ft. relative to floor level or ground surface)	10' 77"	Distance to nearest Roadway (ft.)	10'
PID Reading (ppm)	0.0	PID Reading (ppm)	0.0 0.7	PID Reading (ppm)	0.0
Barometric Pressure ("Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?	No	Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?	No		

**Comments:**

Leak test 1:	START	PURGE	POST-PURGE
	8%	2.4%	18%
Leak test 2:	START	PURGE	POST-PURGE
	75%	500 → 0 ppm	15%
Leak test 3:	95%	500-1000 ppm	10%

3/13 0900 ✓

Signature: \_\_\_\_\_



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0096812  
 Project Name: Tech City  
 Location: Kingston NY  
 Project Manager: Kris Perritt

Sample Location:	TC-PI-SS-04	Collector(s):	Garbage Room
Address:	Kingston NY	KP SS	
PID Meter Used: (Model, Serial #)	Mini Rae 2000 (R3566)	Building No:	B of A
		<del>203</del> 201	

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	717	Canister Serial No.:	885	Canister Serial No.:	
Flow Controller Id No:	0336	Flow Controller Id No:	0019	Flow Controller Id No:	
Start Date/Time:	3/13/09 / 1105	Start Date/Time:	05/13/09 / 1105	Start Date/Time:	
Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-29"	Start Pressure: (inches Hg)	
Stop Date/Time:	1920 / 3/13/09	Stop Date/Time:	1645 / 3/13/09	Stop Date/Time:	
Stop Pressure: (inches Hg)	-1" (-1.5 / 3/16/09)	Stop Pressure: (inches Hg)	-5"	Stop Pressure: (inches Hg)	
Sample ID:	TC-PI-IA-04	Sample ID:	<del>TC-PI-SS-04</del> ✓	Sample ID:	

**Other Sampling Information:**

Story/Level	1st	Basement, Crawl Space or Ground Surface?	Stoborgale	Direction from Building	
Room	Garbage Room	Floor Slab Thickness (inches) [if present]	28"	Distance from Building	
Indoor Air Temp (°F)	70°F	Potential Vapor Entry Points Observed?	No	Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)	4'	Ground Surface Condition	Good	Intake Tubing used?	
Noticeable Odor?	No	Intake depth (ft. relative to floor level or ground surface)	8"	Distance to nearest Roadway (ft.)	
PID Reading (ppm)	0.6	PID Reading (ppm)	0.6	PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?	No	Noticeable Odor?	
Duplicate Sample?	No	Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?	No		

**Comments:**

Leak Test 1:

Leak Test 2:      START      PURGE      POST PURGE

Leak Test 3:      25%      125 ppm      17%      05/13/09 1105

                         95%      4000-8500 ppm of conf. flow      95% conf. flow

Signature: \_\_\_\_\_





Environmental Resources Management  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0096812  
 Project Name: Tech City  
 Location: Kingston NY  
 Project Manager: KP

Sample Location:	TC-P4A-SS-01	Collector(s):	KP SS	~100 from E wall
Address:	Kingston NY	Building No:	42	
PID Meter Used: (Model, Serial #)	Mini Rae 2000 (3566)			

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	619	Canister Serial No.:	684	Canister Serial No.:	1561
Flow Controller Id No:	249	Flow Controller Id No:	0076	Flow Controller Id No:	0018
Start Date/Time:	3/13/09 / 1010	Start Date/Time:	03/13/09 1010	Start Date/Time:	3/13/09 1025
Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-29	Start Pressure: (inches Hg)	-30"
Stop Date/Time:	3/13/09 / 1650	Stop Date/Time:	3/13/09 1605	Stop Date/Time:	3/13/09 1900
Stop Pressure: (inches Hg)	-4	Stop Pressure: (inches Hg)	-4	Stop Pressure: (inches Hg)	-5"
Sample ID:	TC-P4A-IA-01 ✓	Sample ID:	TC-P4A-SS-01 ✓	Sample ID:	TC-P4A-AA-1 ✓

**Other Sampling Information:**

Story/Level	1	Basement, Crawl Space or Ground Surface?	GS	Direction from Building	
Room		Floor Slab Thickness (inches) [if present]	~8"	Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?	N	Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)	0.0	PID Reading (ppm)	1.0	PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?	N	Noticeable Odor?	
Duplicate Sample?		Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?			

**Comments:**

PID @ breakthrough: 1.0  
 PID indoor air background: 0.0

Leak test 1: filled shroud to 90%, purged point 1 minute

	START	PURGE	POST PURGE	
Leak test 2:	80%	6:25 AM	24%	03/13/09 1005
Leak test 3:	92%	2:50 PM	12%	03/13/09 1705

Signature: M



Environmental Resources Management  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0090912  
 Project Name: Tech City  
 Location: Kingston NY  
 Project Manager: KP

Sample Location:	TC-P4A-SS-02	Collector(s):	KP SS
Address:	Tech City Kingston NY	Building No:	43 NE corner
PID Meter Used: (Model, Serial #)	Mini Rat 2000 (P3546)		

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	738	Canister Serial No.:	846	Canister Serial No.:	
Flow Controller Id No:	248	Flow Controller Id No:	416	Flow Controller Id No:	
Start Date/Time:	3/13/09 0945	Start Date/Time:	3/13/09 1045	Start Date/Time:	
Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-29"	Start Pressure: (inches Hg)	
Stop Date/Time:	3/13/09 1745	Stop Date/Time:	3/13/09 1745	Stop Date/Time:	
Stop Pressure: (inches Hg)	-4	Stop Pressure: (inches Hg)	-4	Stop Pressure: (inches Hg)	
Sample ID:	TC-P4A-IA-02 ✓	Sample ID:	TC-P4A-SS-02 ✓	Sample ID:	

**Other Sampling Information:**

Story/Level	1st	Basement, Crawl Space or Ground Surface?	GS	Direction from Building	
Room	NE corner	Floor Slab Thickness (inches) [if present]	8"	Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?	N	Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)	<del>1.1</del> 1.1	PID Reading (ppm)	1.0	PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?	N	Noticeable Odor?	
Duplicate Sample?	N	Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?	N		

**Comments:**

PID @ breakthrough: 1.0 ppm  
 PID indoor air background: 1.1 ppm  
 Leak Test 1: filled shroud to 70.1%, purged point 1 minute,  
 Leak Test 2: START 50% PURGE 125-0 POST-PURGE 16%  
 Leak Test 3: 95% 0 12%  
 3/13/09 1720

Signature: [Signature]





**Environmental Resources Management**  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0096812  
 Project Name: Tech City  
 Location: Kingston NY  
 Project Manager: KP

Sample Location:	TC-P4A-SS-03	Collector(s):	KP SS
Address:	Kingston NY		sw end
PID Meter Used: (Model, Serial #)	Mini Rae 2000 (3566)	Building No:	SN

**SUMMA Canister Record:**

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	928	Canister Serial No.:	877	Canister Serial No.:	
Flow Controller Id No:	003	Flow Controller Id No:	298	Flow Controller Id No:	
Start Date/Time:	3/13/09 1040	Start Date/Time:	3/13/09 1040	Start Date/Time:	
Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	
Stop Date/Time:	3/13/09 1730	Stop Date/Time:	3/13/09 1600	Stop Date/Time:	
Stop Pressure: (inches Hg)	-5	Stop Pressure: (inches Hg)	-4	Stop Pressure: (inches Hg)	
Sample ID:	TC-P4A-IA-08 ✓	Sample ID:	TC-P4A-SS-03 ✓	Sample ID:	

**Other Sampling Information:**

Story/Level	1st	Basement, Crawl Space or Ground Surface?	GS	Direction from Building	
Room		Floor Slab Thickness (inches) [if present]	8"	Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition		Intake Tubing used?	
Noticeable Odor?		Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)	0.0	PID Reading (ppm)	0.0	PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?		Noticeable Odor?	
Duplicate Sample?		Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?			

**Comments:**

Leak test 1: filled shroud to 70% , purged point 1 minute.

Leak test 2: START PURGE POST PURGE  
 70% 0 0

Leak test 3: 53% 0 10 3/13/09 1035  
 4: 95% 19.700 12.7  
 5: 98% 1400 1 min. 95% 1 continuous flow -5

Signature: *[Signature]*

5525  
1256  
2400  
9800  
6 95+ 95+ 3/13/09 1750



Environmental Resources Management  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0096812  
 Project Name: Tech City  
 Location: Kingston NY  
 Project Manager: FFF KP

Sample Location:	TC-P4A-SS-04	Collector(s):	KP, SS
Address:	Tech City Kingston NY	Building No:	52 SE corner
PID Meter Used: (Model, Serial #)	Mini Rae 2000 (R3566)		

SUMMA Canister Record:

INDOOR AIR		SUBSTRUCTURE SOIL GAS		AMBIENT AIR	
Canister Serial No.:	897	Canister Serial No.:	1495	Canister Serial No.:	
Flow Controller Id No:	0333	Flow Controller Id No:	0131	Flow Controller Id No:	
Start Date/Time:	3/13/09 0710	Start Date/Time:	3/13/09 0710	Start Date/Time:	
Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	-30"	Start Pressure: (inches Hg)	
Stop Date/Time:	1430 3/13/09	Stop Date/Time:	3/13/09 1500	Stop Date/Time:	
Stop Pressure: (inches Hg)	-4	Stop Pressure: (inches Hg)	-4	Stop Pressure: (inches Hg)	
Sample ID:	TC-P4A-IA-04 ✓	Sample ID:	TC-P4A-SS-04 ✓	Sample ID:	

01145  
 SS IA  
 -19 -14

Other Sampling Information:

Story/Level	1st	Basement, Crawl Space or Ground Surface?	LS	Direction from Building	
Room	SE production area	Floor Slab Thickness (inches) [if present]	4"	Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?	N	Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition	good	Intake Tubing used?	
Noticeable Odor?	No	Intake depth (ft. relative to floor level or ground surface)		Distance to nearest Roadway (ft.)	
PID Reading (ppm)	4.2	PID Reading (ppm)	3.2 / 2.3	PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?	No	Noticeable Odor?	
Duplicate Sample?	No	Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?	No		

Comments:

PID C breakthrough: 3.2 ppm  
 Indoor air background: 4.2 ppm

3/13/09  
 LEAK TEST 1: Flow from SW side to 80% He; purged point 1 minute  
 He in point max 125 ppm. He in strand following purge 31%  
 START Purge Post-Purge

LEAK TEST 2: 85% - 10,000 → 150 ppm - 90% at mid point of strand

LEAK TEST 3:

Signature: \_\_\_\_\_

3/13 (1) 80% strand purges 200 ppm + 24%

(2) 60+ 900 ppm + 15.5

Final leak test:  
 15% 470 ppm 16.1%

NO 2.8 ppm Benz

\* possible min quantity stopped to 0





Environmental Resources Management  
 5788 Widewaters Parkway  
 Dewitt, New York 13214  
 Phone: (315) 445-2554  
 Fax: (315) 445-2543

Project #: 0096812  
 Project Name: Tech City 1g 4A Inv.  
 Location: Kingston, NY  
 Project Manager: K. Peritt

Sample Location:	TechCity B034	Collector(s):	J. Elder M. Nigro
Address:	300 Enterprise Drive	Building No:	B034
PID Meter Used: (Model, Serial #)	MiniRae		

SUMMA Canister Record:

INDOOR AIR		SUBSTRUCTURE SOIL GAS ✓		AMBIENT AIR	
Canister Serial No.:		Canister Serial No.:	134	Canister Serial No.:	
Flow Controller Id No:		Flow Controller Id No:	0047	Flow Controller Id No:	
Start Date/Time:		Start Date/Time:	6/28/09 1340	Start Date/Time:	
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-30	Start Pressure: (inches Hg)	
Stop Date/Time:		Stop Date/Time:	6/28/09 1515	Stop Date/Time:	
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-3	Stop Pressure: (inches Hg)	
Sample ID:		Sample ID:	TC-PHA-SS-02A(5/09)	Sample ID:	

Other Sampling Information:

Sample Category ID: (B, 1, 2, 3...)		Sample Category ID: (A or A-1)	A	Sample Category ID: (AA)	
Story/Level		Basement or Crawl Space?	conc. slab	Direction from Building	
Room		Floor Slab Thickness (inches) [if present]	9"	Distance from Building	
Indoor Air Temp (°F)		Potential Vapor Entry Points Observed?	No	Intake Height Above Ground Level (ft.)	
Intake Height Above Floor Level (ft.)		Ground Surface Condition (Crawl Space Only)		Intake Tubing used?	
Noticeable Odor?		If A, intake depth, if A-1, Intake Height (ft. relative to floor level)	9.5"	Distance to nearest Roadway (ft.)	
PID Reading (ppm)		PID Reading (ppm)	0.0	PID Reading (ppm)	
Barometric Pressure ("Hg or mb)		Noticeable Odor?	No	Noticeable Odor?	
Duplicate Sample?		Percent O <sub>2</sub> /CO <sub>2</sub> /CH <sub>4</sub>		Duplicate Sample?	
		Duplicate Sample?	No		

Comments: SS Point 2' West of SS02  
 Add 52% Helium to shroud  
 Verify concentration in shroud, purge SS w/ PID - 0.0 ppm  
 Helium in SS point 0 ppm  
 Re-test 57% Helium to shroud, 0 ppm in SS

Signature: J. M. [Signature]

TC-PI-SS-04  
Blk. 20E  
201

Environmental  
Resources  
Management

399 Boylston Street, 6<sup>th</sup> Floor  
Boston, MA 02116  
(617) 646-7800  
(617) 267-6447 (fax)

<http://www.erm.com>

## INDOOR AIR RESIDENTIAL SURVEY

*This form must be completed for each residence involved in sub-slab and/or indoor air testing.*

Preparer's Name SS Date/Time Prepared 3.12.09 2:33

Preparer's Affiliation ERM Phone # \_\_\_\_\_

Purpose of Investigation \_\_\_\_\_



### 1.0 OCCUPANT

Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

### 2.0 OWNER OR LANDLORD

Check if same as occupant \_\_\_\_\_ Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

3.0 BUILDING CHARACTERISTICS

Type of Residence (Circle appropriate Response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: <u>Admin</u>

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? N

House Construction:

Number of Floors 4 Building Age ~50 yrs

Is the Building Insulated? Y How Air Tight? Tight/Average/Not Tight

Does the House Have a Basement? N

4.0 AIRFLOW

Airflow Between Floors

NA

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Airflow Near Source

fixed windows

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Outdoor Air Infiltration

  N    
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Infiltration Into Air Ducts

  Y    
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS**

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame    Concrete    Stone Brick, Steele
- b. Basement Type:                    Full                    Crawlspace    Slab    Other NA
- c. Basement Floor:                    Concrete            Dirt                    Stone    Other NA
- d. Basement Floor:                    Uncovered            Covered                    Covered With NA
- e. Concrete Floor:                    Unsealed            Sealed                    Sealed With Tile
- f. Foundation Walls:                    Poured                    Block                    Stone    Other ?
- g. Foundation Walls:                    Unsealed                    Sealed                    Sealed With ?
- h. The Basement Is:                    Wet                    Damp                    Dry    Moldy NA
- i. The Basement Is:                    Finished                    Unfinished                    Partially Finished NA
- j. Sump Present?                    Y/N
- k. Water In Sump?                    Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: \_\_\_\_\_(feet)

Does the basement flood at any time during the year?    Y/N NA

Is it possible to determine how deep water is below the basement floor? Y/N

If yes, approximately how deep?   ?  

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains)



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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump       | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Steam Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove      | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |  |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: \_\_\_\_\_

Boiler/Furnace Located In:    Basement    Outdoors    Main Floor

Other 4th fl \_\_\_\_\_

Air Conditioning:     Central Air    Window Units    Open Windows    None

Are There Air Distribution Ducts Present?     Y     N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7.0 OCCUPANCY

Is the Basement/Lowest Level Occupied?

Full-time  
Seldom

Occasionally  
Almost Never

Level General Use Each Floor (family room, bedroom, laundry, workshop, storage)

Basement

1<sup>st</sup> Floor

Admin, Processes

2<sup>nd</sup> Floor

3<sup>rd</sup> Floor

4<sup>th</sup> Floor

↓  
mechanical room

8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is There An Attached Garage?

Y/N

b. Does the Garage Have a Separate Heating Unit?

Y/N/NA

c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)?

Y/N/NA

Please Specify \_\_\_\_\_

d. Has the Building Ever Had a Fire?

Y/N

When? \_\_\_\_\_

e. Is a Kerosene or Unvented Gas Space Heater Present?

Y/N

Where? \_\_\_\_\_

f. Is There a Workshop or Hobby/Craft Area?

Y/N

Where&Type? \_\_\_\_\_

g. Is There Smoking in the Building?

Y/N

How Frequently? \_\_\_\_\_

h. Have Cleaning Products Been Used Recently?

Y/N

When & Type? \_\_\_\_\_

i. Have Cosmetic Products Been Used Recently?

Y/N

When & Type? \_\_\_\_\_

j. Has Painting/Staining Been Done in the Last 6 Months?

Y/N

Where & When \_\_\_\_\_

k. Is There New Carpet, Drapes, or Other Textiles?

Y/N

Where & When \_\_\_\_\_

Surface cleaner, cream cleanser, furniture polish, stainless steel cleaner

l. Have Air Fresheners Been Used Recently? Y/N When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan? Y/N If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan? Y/N

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer? Y/N If Yes, Is it Vented Outside? Y/N

p. Has There Been a Pesticide Application? Y/N When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building? Y/N

If Yes, Describe:

*garbage/cleaner*  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work? Y/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work? Y/N

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly) No *NA*

Yes, Use Dry-Cleaning Infrequently (Monthly or Less) Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure? Y/N

Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water    Drilled Well    Driven Well    Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer    Septic Tank    Leach Field    Dry Well

Other: \_\_\_\_\_

## **10.0 FLOOR PLANS**

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.

Basement:

First Floor:

Second Floor:

### 11.0 OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.

SEE SURVEY  
FOR  
TC-PI-SS-02

**12.0 PRODUCT INVENTORY FORM**

Make and Model of Field Instrument Used: \_\_\_\_\_

List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
garbage room ↓	floor finish	5 gal	Good			N
	furniture polish	1 qt.	Good			↓
	cream cleanser	2 qt.	Good			
	defoamer	1 qt	Good			
	stainless steel cleaner	17 oz.	Good			

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
 \*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling?                      Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?



TC-PAA-SS-02

Bldg # 43

Environmental Resources Management

399 Boylston Street, 6th Floor  
Boston, MA 02116  
(617) 646-7800  
(617) 267-6447 (fax)

<http://www.erm.com>

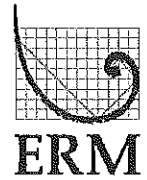
**INDOOR AIR RESIDENTIAL SURVEY**

*This form must be completed for each residence involved in sub-slab and/or indoor air testing.*

Preparer's Name Shannon Schuchart Date/Time Prepared 3.11.09 1844

Preparer's Affiliation ERM Phone # \_\_\_\_\_

Purpose of Investigation \_\_\_\_\_



**1.0 OCCUPANT**

Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2.0 OWNER OR LANDLORD**

Check if same as occupant \_\_\_\_\_ Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

**3.0 BUILDING CHARACTERISTICS**

Type of Residence (Circle appropriate Response)

- Ranch                      2-Family                      3-Family
- Raised Ranch              Split Level                      Colonial
- Cape Cod                      Contemporary                      Mobile Home
- Duplex                      Apartment House                      Townhouses/Condos
- Modular                      Log Home                      Other ~~NA~~ Industrial - Bldg 43

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? \_\_\_\_\_

**House Construction:**

Number of Floors 1                      Building Age ~ 50 yrs

Is the Building Insulated? Y                      How Air Tight? Tight/Average/Not Tight

Does the House Have a Basement? No \_\_\_\_\_

**4.0 AIRFLOW**

Airflow Between Floors

NA  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Airflow Near Source

NA  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Outdoor Air Infiltration

one door to outside

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Infiltration Into Air Ducts

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**5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS**

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame    Concrete    Stone Brick - Steel
- b. Basement Type:                      Full                      Crawlspace    Slab    Other N/A
- c. Basement Floor:                      Concrete              Dirt                      Stone    Other N/A
- d. Basement Floor:                      Uncovered            Covered                      Covered With N/A
- e. Concrete Floor:                      Unsealed            Sealed                      Sealed With \_\_\_\_\_
- f. Foundation Walls:                      Poured                      Block                      Stone    Other ?
- g. Foundation Walls:                      Unsealed                      Sealed                      Sealed With ?
- h. The Basement Is:                      Wet                      Damp                      Dry    Moldy N/A
- i. The Basement Is:                      Finished                      Unfinished                      Partially Finished N/A
- j. Sump Present?                      Y/N
- k. Water In Sump?                      Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: \_\_\_\_\_ (feet)

Does the basement flood at any time during the year? Y/N

Is it possible to determine how deep water is below the basement floor? Y/N

If yes, approximately how deep? ~ 6'

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains) concrete floor pads (20'x20') w/ seams.

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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump       | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Steam Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove      | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |  |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: \_\_\_\_\_

Boiler/Furnace Located In:    Basement    Outdoors    Main Floor

Other \_\_\_\_\_

Air Conditioning:    Central Air    Window Units    Open Windows    None

Are There Air Distribution Ducts Present?     Y     N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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7.0 OCCUPANCY

Is the Basement/Lowest Level Occupied?      Full-time      Occasionally  
    Seldom              Almost Never

Level    General Use Each Floor (family room, bedroom, laundry, workshop, storage)

Basement	_____
1 <sup>st</sup> Floor	<u>abandoned warehouse</u>
2 <sup>nd</sup> Floor	<del>_____</del>
3 <sup>rd</sup> Floor	<del>_____</del>
4 <sup>th</sup> Floor	<del>_____</del>

8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is There An Attached Garage?      Y/N
- b. Does the Garage Have a Separate Heating Unit?      Y/N/NA
- c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)?      Y/N/NA      Please Specify \_\_\_\_\_
- d. Has the Building Ever Had a Fire?      Y/N      When? \_\_\_\_\_
- e. Is a Kerosene or Unvented Gas Space Heater Present?      Y/N Where? \_\_\_\_\_
- f. Is There a Workshop or Hobby/Craft Area?      Y/N      Where&Type? \_\_\_\_\_
- g. Is There Smoking in the Building?      Y/N      How Frequently? \_\_\_\_\_
- h. Have Cleaning Products Been Used Recently?      Y/N When & Type? \_\_\_\_\_
- i. Have Cosmetic Products Been Used Recently?      Y/N When & Type? \_\_\_\_\_
- j. Has Painting/Staining Been Done in the Last 6 Months?      Y/N  
     Where & When \_\_\_\_\_
- k. Is There New Carpet, Drapes, or Other Textiles?      Y/N  
     Where & When \_\_\_\_\_

l. Have Air Fresheners Been Used Recently?  Y/ N When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan?  Y/ N If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan?  Y/ N

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer?  Y/ N If Yes, Is it Vented Outside?  Y/ N

p. Has There Been a Pesticide Application?  Y/ N When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction?  Y/ N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building?  Y/ N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work?  Y/ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work?  Y/ N

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly)                      No                       N/A

Yes, Use Dry-Cleaning Infrequently (Monthly or Less)                      Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure?  Y/ N

Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water    Drilled Well    Driven Well    Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer    Septic Tank    Leach Field    Dry Well

Other: \_\_\_\_\_

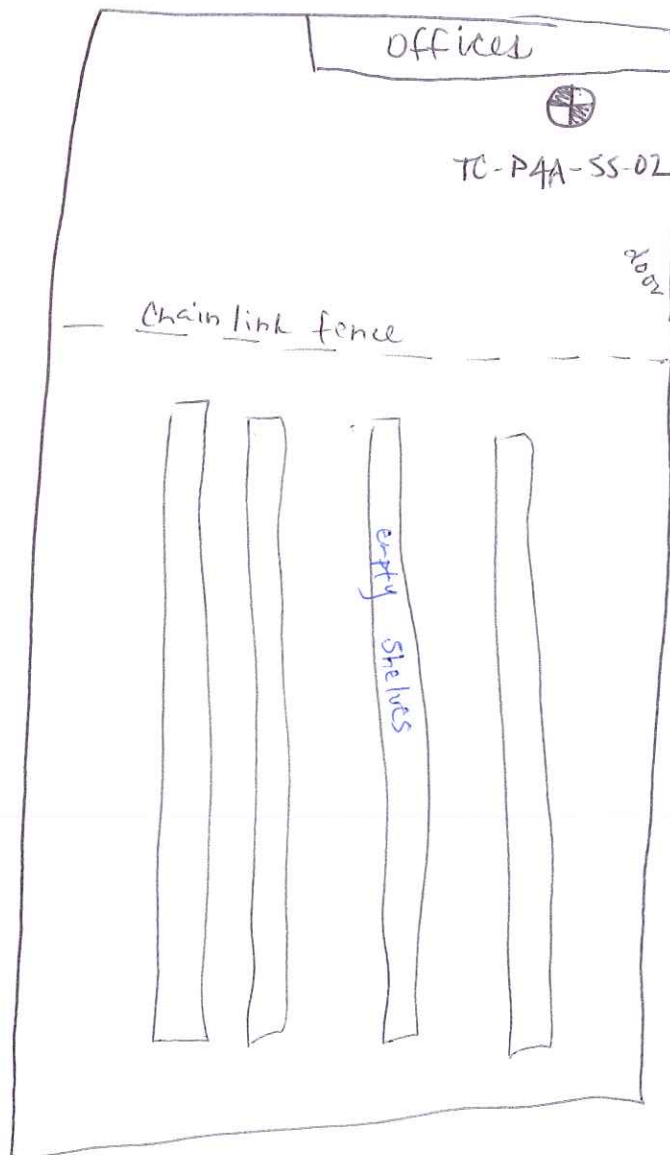
### 10.0 FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.

Basement:

First Floor:

Second Floor:





### **11.0 OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.**

N/A

**12.0 PRODUCT INVENTORY FORM**

**Make and Model of Field Instrument Used:** \_\_\_\_\_

**List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.**

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y/N</u>

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
\*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling?                      Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?

TC-P4A-SS-01

E wall

Environmental  
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(617) 267-6447 (fax)

<http://www.erm.com>

**INDOOR AIR RESIDENTIAL SURVEY**

*This form must be completed for each residence involved in sub-slab  
and/or indoor air testing.*

Preparer's Name Shannon Schuchat Date/Time Prepared 3.11.09 2200

Preparer's Affiliation ERM Phone # \_\_\_\_\_

Purpose of Investigation \_\_\_\_\_



**1.0 OCCUPANT**

Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2.0 OWNER OR LANDLORD**

Check if same as occupant \_\_\_\_\_ Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

**3.0 BUILDING CHARACTERISTICS**

Type of Residence (Circle appropriate Response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: <u>Industrial warehouse - abandoned</u>

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? N

**House Construction:**

Number of Floors 1 Building Age ~ 50 yrs.

Is the Building Insulated? X How Air Tight? Tight/Average/Not Tight

Does the House Have a Basement? N

**4.0 AIRFLOW**

Airflow Between Floors

N/A  
\_\_\_\_\_  
\_\_\_\_\_

Airflow Near Source

N  
\_\_\_\_\_  
\_\_\_\_\_

Outdoor Air Infiltration

  N    
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Infiltration Into Air Ducts

  N    
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS**

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame    Concrete    Stone Brick - steel
- b. Basement Type:                    Full                    Crawlspace    Slab    Other NA
- c. Basement Floor:                    Concrete            Dirt                    Stone    Other NA
- d. Basement Floor:                    Uncovered           Covered            Covered With NA
- e. Concrete Floor:                    Unsealed           Sealed            Sealed With paint/tile
- f. Foundation Walls:                    Poured              Block                    Stone    Other ?
- g. Foundation Walls:                    Unsealed            Sealed                    Sealed With ?
- h. The Basement Is:                    Wet                    Damp                    Dry    Moldy NA
- i. The Basement Is:                    Finished              Unfinished        Partially Finished NA
- j. Sump Present?                        Y/N
- k. Water In Sump?                        Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: 26' (feet)

Does the basement flood at any time during the year?    Y/N

Is it possible to determine how deep water is below the basement floor?    Y/N

If yes, approximately how deep? ~6'

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains)

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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump        | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Stream Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove       | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |   |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: \_\_\_\_\_

Boiler/Furnace Located In:    Basement    Outdoors    Main Floor

Other \_\_\_\_\_

Air Conditioning:    Central Air    Window Units    Open Windows     None

Are There Air Distribution Ducts Present?     Y/N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7.0 OCCUPANCY

Is the Basement/Lowest Level Occupied? Full-time Occasionally  
Seldom Almost Never

Level General Use Each Floor (family room, bedroom, laundry, workshop, storage)

~~Basement~~ \_\_\_\_\_  
1st Floor abandoned \_\_\_\_\_  
2nd Floor \_\_\_\_\_  
3rd Floor \_\_\_\_\_  
4th Floor \_\_\_\_\_

8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is There An Attached Garage? Y/N
- b. Does the Garage Have a Separate Heating Unit? Y/N/NA
- c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)? Y/N/NA Please Specify \_\_\_\_\_
- d. Has the Building Ever Had a Fire? Y/N When? \_\_\_\_\_
- e. Is a Kerosene or Unvented Gas Space Heater Present? Y/N Where? \_\_\_\_\_
- f. Is There a Workshop or Hobby/Craft Area? Y/N Where&Type? \_\_\_\_\_
- g. Is There Smoking in the Building? Y/N How Frequently? \_\_\_\_\_
- h. Have Cleaning Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- i. Have Cosmetic Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- j. Has Painting/Staining Been Done in the Last 6 Months? Y/N  
Where & When \_\_\_\_\_
- k. Is There New Carpet, Drapes, or Other Textiles? Y/N  
Where & When \_\_\_\_\_



l. Have Air Fresheners Been Used Recently? Y/**N** When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan? Y/**N** If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan? Y/**N**

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer? Y/**N** If Yes, Is it Vented Outside? Y/N

p. Has There Been a Pesticide Application? Y/**N** When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction? Y/**N**

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building? Y/**N**

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work? Y/**N**

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work? Y/**N**

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly) **No**

Yes, Use Dry-Cleaning Infrequently (Monthly or Less) Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure? Y/**N**

Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water    Drilled Well    Driven Well    Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer    Septic Tank    Leach Field    Dry Well

Other: \_\_\_\_\_

### 10.0 FLOOR PLANS

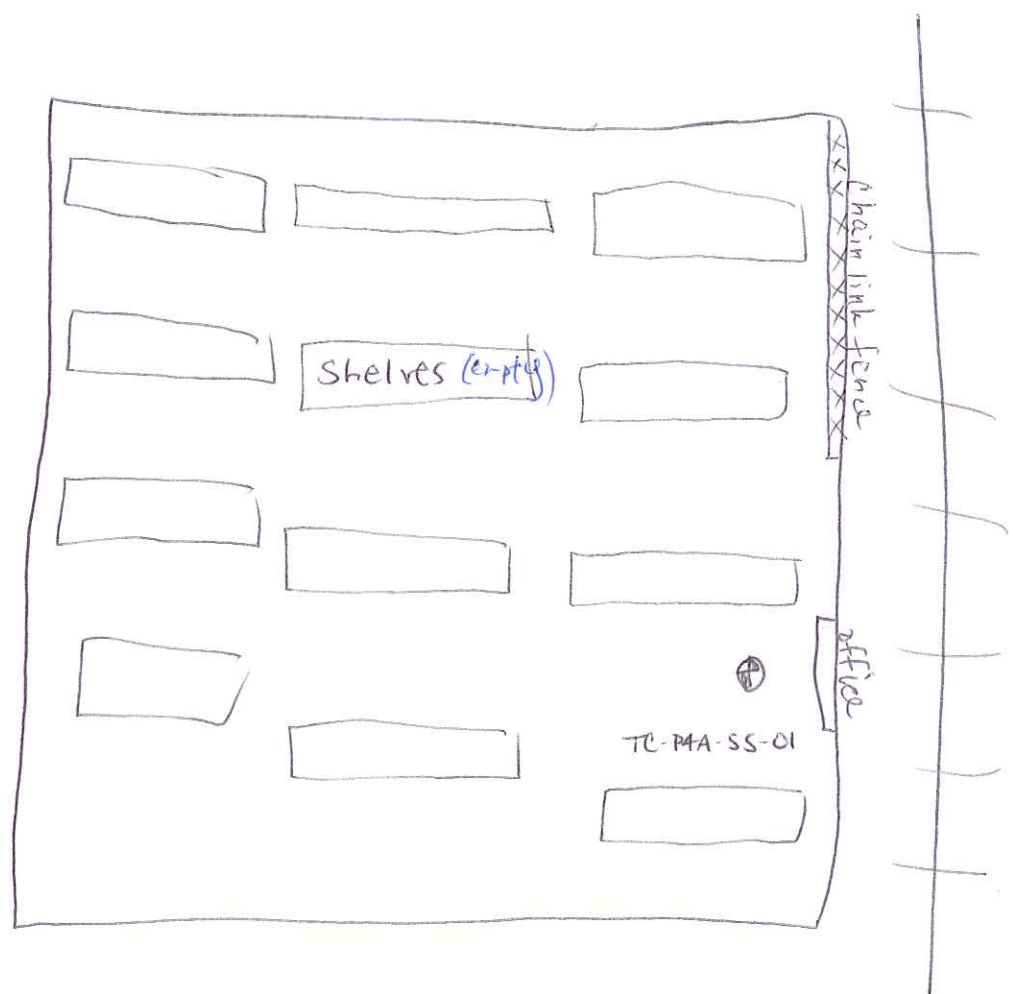
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.



Basement:

Buildg 42

First Floor:



Second Floor:

### **11.0 OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.**

N/A

**12.0 PRODUCT INVENTORY FORM**

**Make and Model of Field Instrument Used:** \_\_\_\_\_

**List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.**

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y/N</u>

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
 \*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling?                      Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?

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**INDOOR AIR RESIDENTIAL SURVEY**

*This form must be completed for each residence involved in sub-slab  
and/or indoor air testing.*

Preparer's Name S. Schuchart

Date/Time Prepared 3.11.09 2255

Preparer's Affiliation ERM

Phone # \_\_\_\_\_



Purpose of Investigation \_\_\_\_\_

**1.0 OCCUPANT**

Interviewed: Y/N

Last Name \_\_\_\_\_

First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_

Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2.0 OWNER OR LANDLORD**

Check if same as occupant \_\_\_\_\_

Interviewed: Y/N

Last Name \_\_\_\_\_

First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_

Office Phone \_\_\_\_\_

3.0 BUILDING CHARACTERISTICS

Type of Residence (Circle appropriate Response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: <u>Industrial - abandoned</u>

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? N

House Construction:

Number of Floors 2-3 Building Age ~50 yrs

Is the Building Insulated? Y How Air Tight? Tight / Average / Not Tight

Does the House Have a Basement? N

4.0 AIRFLOW

Airflow Between Floors

N  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Airflow Near Source

N  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Outdoor Air Infiltration

fixed windows, one shattered but taped

Infiltration Into Air Ducts

N

5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame Concrete Stone Brick - steel
- b. Basement Type: Full Crawlspace Slab Other N/A
- c. Basement Floor: Concrete Dirt Stone Other N/A
- d. Basement Floor: Uncovered Covered Covered With N/A
- e. Concrete Floor: Unsealed Sealed Sealed With asphalt based tile
- f. Foundation Walls: Poured Block Stone Other ?
- g. Foundation Walls: Unsealed Sealed Sealed With ?
- h. The Basement Is: Wet Damp Dry Moldy N/A
- i. The Basement Is: Finished Unfinished Partially Finished N/A
- j. Sump Present? Y/N
- k. Water In Sump? Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: \_\_\_\_\_ (feet)

Does the basement flood at any time during the year? Y/N

Is it possible to determine how deep water is below the basement floor? Y/N

If yes, approximately how deep? ~ 4'

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains) 2x2 3'x3' tile below raised floor

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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump        | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Stream Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove       | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |   |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: \_\_\_\_\_

Boiler/Furnace Located In:    Basement    Outdoors    Main Floor

Other \_\_\_\_\_

Air Conditioning:    Central Air    Window Units    Open Windows     None

Are There Air Distribution Ducts Present?     Y/N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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**7.0 OCCUPANCY**

Is the Basement/Lowest Level Occupied?      Full-time      Occasionally  
    Seldom      Almost Never

Level    General Use Each Floor (family room, bedroom, laundry, workshop, storage)

Basement	_____
1 <sup>st</sup> Floor	_____ <i>abandoned server room</i> _____
2 <sup>nd</sup> Floor	_____ <i>? } abandoned</i> _____
3 <sup>rd</sup> Floor	_____ <i>? }</i> _____
4 <sup>th</sup> Floor	_____

**8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY**

- a. Is There An Attached Garage?      Y/N
- b. Does the Garage Have a Separate Heating Unit?      Y/N/NA
- c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)?      Y/N/NA      Please Specify \_\_\_\_\_
- d. Has the Building Ever Had a Fire?      Y/N      When? \_\_\_\_\_
- e. Is a Kerosene or Unvented Gas Space Heater Present?      Y/N      Where? \_\_\_\_\_
- f. Is There a Workshop or Hobby/Craft Area?      Y/N      Where&Type? \_\_\_\_\_
- g. Is There Smoking in the Building?      Y/N      How Frequently? \_\_\_\_\_
- h. Have Cleaning Products Been Used Recently?      Y/N      When & Type? \_\_\_\_\_
- i. Have Cosmetic Products Been Used Recently?      Y/N      When & Type? \_\_\_\_\_
- j. Has Painting/Staining Been Done in the Last 6 Months?      Y/N  
 Where & When \_\_\_\_\_
- k. Is There New Carpet, Drapes, or Other Textiles?      Y/N  
 Where & When \_\_\_\_\_

l. Have Air Fresheners Been Used Recently?  Y  N When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan?  Y  N If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan?  Y  N

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer?  Y  N If Yes, Is it Vented Outside?  Y  N

p. Has There Been a Pesticide Application?  Y  N When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction?  Y  N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building?  Y  N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work?  Y  N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work?  Y  N

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly)  No

Yes, Use Dry-Cleaning Infrequently (Monthly or Less)  Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure?  Y  N

Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water    Drilled Well    Driven Well    Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer    Septic Tank    Leach Field    Dry Well

Other: \_\_\_\_\_

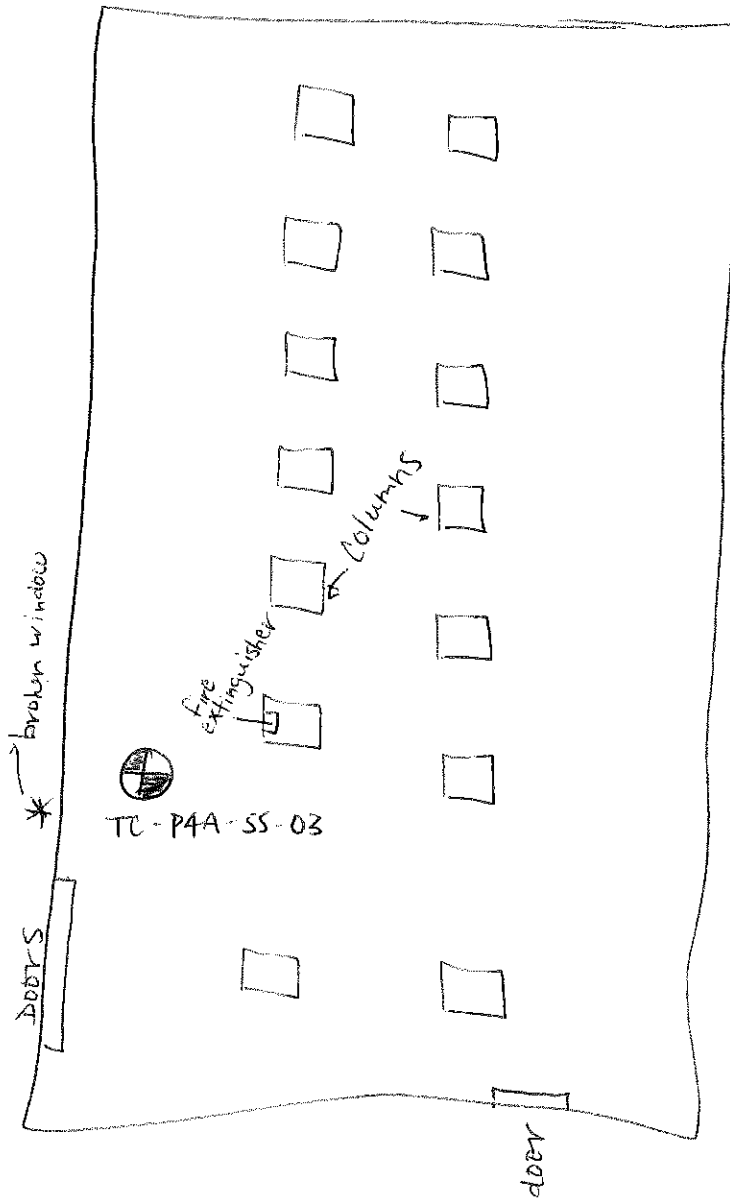
### 10.0 FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.

Basement:

First Floor:

Second Floor:



### **11.0 OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.**

NA

**12.0 PRODUCT INVENTORY FORM**

**Make and Model of Field Instrument Used:** \_\_\_\_\_

**List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.**

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling?                    Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?

TC-PI-SS-02  
Bldg 207

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(617) 267-6447 (fax)

<http://www.erm.com>

### INDOOR AIR RESIDENTIAL SURVEY

*This form must be completed for each residence involved in sub-slab and/or indoor air testing.*

Preparer's Name S Sauchat Date/Time Prepared 3.12.09 2245

Preparer's Affiliation ERM Phone # \_\_\_\_\_

Purpose of Investigation \_\_\_\_\_



#### 1.0 OCCUPANT

Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

#### 2.0 OWNER OR LANDLORD

Check if same as occupant \_\_\_\_\_ Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

3.0 BUILDING CHARACTERISTICS

Type of Residence (Circle appropriate Response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: <u>Commercial - Bof A office</u>

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? N

House Construction:

Number of Floors \_\_\_\_\_ Building Age ~50 yrs.

Is the Building Insulated? Y How Air Tight? Tight/Average/Not Tight

Does the House Have a Basement? \_\_\_\_\_

4.0 AIRFLOW

Airflow Between Floors  
Stairwell

Airflow Near Source  
Emergency Exit Door

Outdoor Air Infiltration

N

Infiltration Into Air Ducts

N

5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame Concrete Stone Brick, Steel
- b. Basement Type: Full Crawlspace Slab Other NA
- c. Basement Floor: Concrete Dirt Stone Other NA
- d. Basement Floor: Uncovered Covered Covered With NA
- e. Concrete Floor: Unsealed Sealed Sealed With tile
- f. Foundation Walls: Poured Block Stone Other ?
- g. Foundation Walls: Unsealed Sealed Sealed With ?
- h. The Basement Is: Wet Damp Dry Moldy NA
- i. The Basement Is: Finished Unfinished Partially Finished NA
- j. Sump Present? Y/N
- k. Water In Sump? Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: \_\_\_\_\_ (feet)

Does the basement flood at any time during the year? Y/N

Is it possible to determine how deep water is below the basement floor? Y/N

If yes, approximately how deep? ~

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains)

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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump        | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Stream Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove       | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |   |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: \_\_\_\_\_

- Boiler/Furnace Located In:    Basement    Outdoors     Main Floor
- Other 4th fl.

Air Conditioning:     Central Air     Window Units     Open Windows     None

Are There Air Distribution Ducts Present?     Y/N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7.0 OCCUPANCY

Is the Basement/Lowest Level Occupied?  Full-time  Occasionally  
 Seldom  Almost Never

Level General Use Each Floor (family room, bedroom, laundry, workshop, storage)

Basement	
1st Floor	Admin, Processing offices
2nd Floor	
3rd Floor	
4th Floor	Mechanical room

8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is There An Attached Garage?  Y  N
- b. Does the Garage Have a Separate Heating Unit?  Y  N  NA
- c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)?  Y  N  NA Please Specify \_\_\_\_\_
- d. Has the Building Ever Had a Fire?  Y  N When? \_\_\_\_\_
- e. Is a Kerosene or Unvented Gas Space Heater Present?  Y  N Where? \_\_\_\_\_
- f. Is There a Workshop or Hobby/Craft Area?  Y  N Where&Type? \_\_\_\_\_
- g. Is There Smoking in the Building?  Y  N How Frequently? \_\_\_\_\_
- h. Have Cleaning Products Been Used Recently?  Y  N When & Type? \_\_\_\_\_
- i. Have Cosmetic Products Been Used Recently?  Y  N When & Type? \_\_\_\_\_
- j. Has Painting/Staining Been Done in the Last 6 Months?  Y  N  
Where & When \_\_\_\_\_
- k. Is There New Carpet, Drapes, or Other Textiles?  Y  N  
Where & When \_\_\_\_\_

l. Have Air Fresheners Been Used Recently? Y/N When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan? Y/N If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan? Y/N

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer? Y/N If Yes, Is it Vented Outside? Y/N

p. Has There Been a Pesticide Application? Y/N When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work? Y/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work? Y/N

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly) No

Yes, Use Dry-Cleaning Infrequently (Monthly or Less) Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure? Y/N

Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water     Drilled Well     Driven Well     Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer     Septic Tank     Leach Field     Dry Well

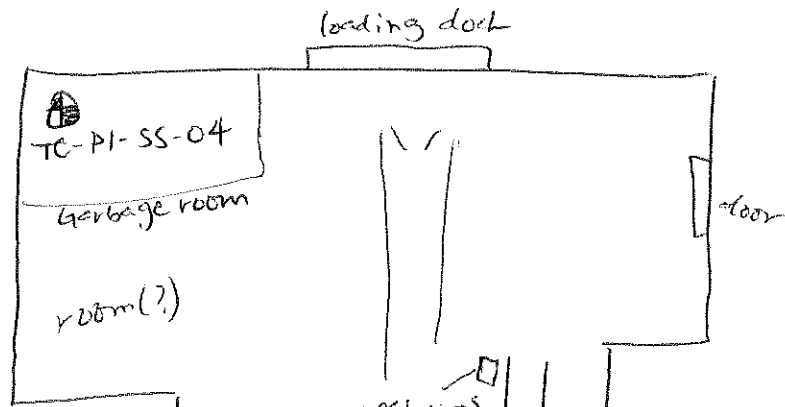
Other: \_\_\_\_\_



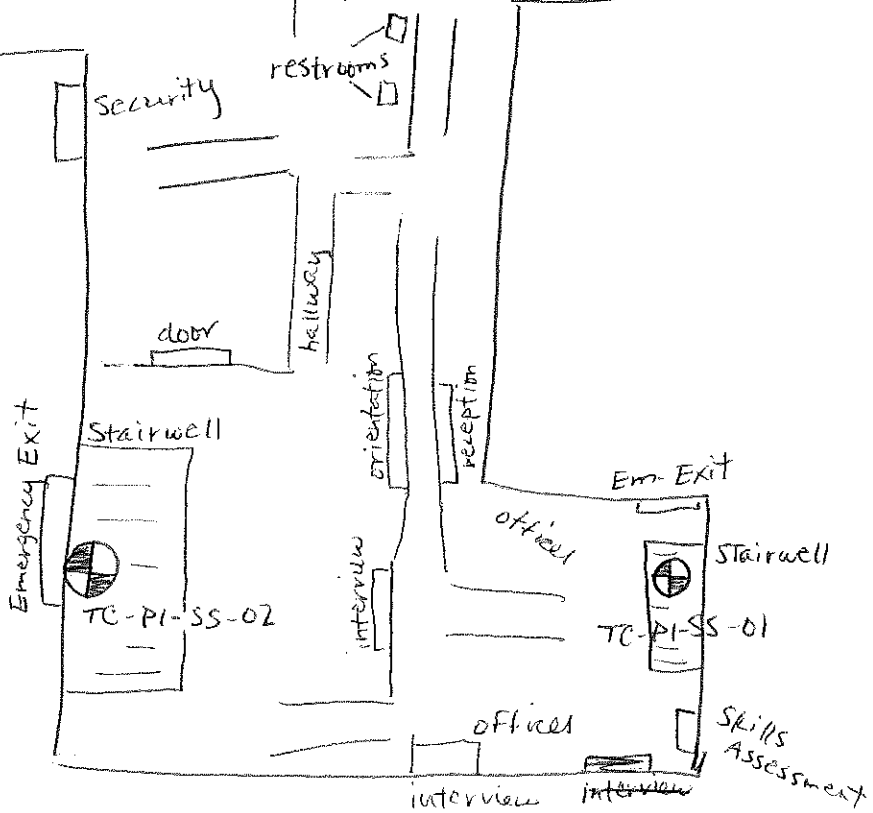
### 10.0 FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.

Basement:



First Floor:



Second Floor:

### **11.0 OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.**

**12.0 PRODUCT INVENTORY FORM**

Make and Model of Field Instrument Used: \_\_\_\_\_

List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y/N</u>

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
\*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling? Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?

TC-PI-SS-01

Blag 2011

Environmental Resources Management

399 Boylston Street, 6th Floor  
Boston, MA 02116  
(617) 646-7800  
(617) 267-6447 (fax)

<http://www.erm.com>

**INDOOR AIR RESIDENTIAL SURVEY**

*This form must be completed for each residence involved in sub-slab and/or indoor air testing.*

Preparer's Name SS

Date/Time Prepared 3.12.09 2515

Preparer's Affiliation ERM

Phone # \_\_\_\_\_

Purpose of Investigation \_\_\_\_\_



**1.0 OCCUPANT**

Interviewed: Y/N

Last Name \_\_\_\_\_

First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_

Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2.0 OWNER OR LANDLORD**

Check if same as occupant \_\_\_\_\_

Interviewed: Y/N

Last Name \_\_\_\_\_

First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_

Office Phone \_\_\_\_\_

**3.0 BUILDING CHARACTERISTICS**

Type of Residence (Circle appropriate Response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? N

**House Construction:**

Number of Floors 4 Building Age 250 yrs

Is the Building Insulated? Y How Air Tight? Tight/Average/Not Tight

Does the House Have a Basement? Y

**4.0 AIRFLOW**

Airflow Between Floors

stairwell  
\_\_\_\_\_  
\_\_\_\_\_

Airflow Near Source

Emerg. Exit  
\_\_\_\_\_  
\_\_\_\_\_

Outdoor Air Infiltration

Emerg. Exit

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Infiltration Into Air Ducts

N

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**5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS**

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame    Concrete    Stone Brick, steel
- b. Basement Type:                      Full                      Crawlspace    Slab    Other NA
- c. Basement Floor:                      Concrete              Dirt                      Stone    Other NA
- d. Basement Floor:                      Uncovered            Covered                      Covered With NA
- e. Concrete Floor:                      Unsealed              Sealed                      Sealed With tile
- f. Foundation Walls:                      Poured                      Block                      Stone    Other ?
- g. Foundation Walls:                      Unsealed                      Sealed                      Sealed With ?
- h. The Basement Is:                      Wet                      Damp                      Dry    Moldy NA
- i. The Basement Is:                      Finished                      Unfinished                      Partially Finished NA
- j. Sump Present?                      Y/N
- k. Water In Sump?                      Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: \_\_\_\_\_ (feet)

Does the basement flood at any time during the year?    Y/N NA

Is it possible to determine how deep water is below the basement floor? Y/N

If yes, approximately how deep? 25-7'

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains)

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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump        | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Stream Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove       | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |   |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: \_\_\_\_\_

Boiler/Furnace Located In:    Basement    Outdoors     Main Floor  
Other 4th fl.

Air Conditioning:     Central Air    Window Units    Open Windows    None

Are There Air Distribution Ducts Present?    Y/N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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**7.0 OCCUPANCY**

Is the Basement/Lowest Level Occupied?

Full-time  
Seldom

Occasionally  
Almost Never

Level General Use Each Floor (family room, bedroom, laundry, workshop, storage)

Basement	<u>Admin</u>
1 <sup>st</sup> Floor	<u>Admin, procedure</u>
2 <sup>nd</sup> Floor	<u>↓</u>
3 <sup>rd</sup> Floor	
4 <sup>th</sup> Floor	<u>mechanical room</u>

**8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY**

- a. Is There An Attached Garage? Y/N
- b. Does the Garage Have a Separate Heating Unit? Y/N/NA
- c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)? Y/N/NA Please Specify \_\_\_\_\_
- d. Has the Building Ever Had a Fire? Y/N When? \_\_\_\_\_
- e. Is a Kerosene or Unvented Gas Space Heater Present? Y/N Where? \_\_\_\_\_
- f. Is There a Workshop or Hobby/Craft Area? Y/N Where&Type? \_\_\_\_\_
- g. Is There Smoking in the Building? Y/N How Frequently? \_\_\_\_\_
- h. Have Cleaning Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- i. Have Cosmetic Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- j. Has Painting/Staining Been Done in the Last 6 Months? Y/N  
Where & When \_\_\_\_\_
- k. Is There New Carpet, Drapes, or Other Textiles? Y/N  
Where & When \_\_\_\_\_

I. Have Air Fresheners Been Used Recently? Y/N When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan? Y/N If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan? Y/N

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer? Y/N If Yes, Is it Vented Outside? Y/N

p. Has There Been a Pesticide Application? Y/N When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work? Y/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work? Y/N

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly) No

Yes, Use Dry-Cleaning Infrequently (Monthly or Less) Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure? Y/N

Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water    Drilled Well    Driven Well    Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer    Septic Tank    Leach Field    Dry Well

Other: \_\_\_\_\_

**10.0 FLOOR PLANS**

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.

Basement:

First Floor:

SEE SURVEY  
FOR TC-PI-SS-02

Second Floor:

### **11.0 OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.**

### 12.0 PRODUCT INVENTORY FORM

Make and Model of Field Instrument Used: \_\_\_\_\_

List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y/N</u>

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
\*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling?                      Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?

TC-71-SS-043  
Bldg. 202

Environmental  
Resources  
Management

399 Boylston Street, 6<sup>th</sup> Floor  
Boston, MA 02116  
(617) 646-7800  
(617) 267-6447 (fax)

<http://www.erm.com>

### INDOOR AIR RESIDENTIAL SURVEY

*This form must be completed for each residence involved in sub-slab  
and/or indoor air testing.*

Preparer's Name SS Date/Time Prepared 3.12.09 2545

Preparer's Affiliation ERM Phone # \_\_\_\_\_

Purpose of Investigation \_\_\_\_\_



#### 1.0 OCCUPANT

Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

#### 2.0 OWNER OR LANDLORD

Check if same as occupant \_\_\_\_\_ Interviewed: Y/N

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_ Office Phone \_\_\_\_\_



3.0 BUILDING CHARACTERISTICS

Type of Residence (Circle appropriate Response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: <u>Admin office</u>

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? N

House Construction:

Number of Floors 4 Building Age 250 yrs

Is the Building Insulated? Y How Air Tight? Tight/Average/Not Tight

Does the House Have a Basement? N

4.0 AIRFLOW

Airflow Between Floors  
Stairwell

Airflow Near Source  
N

Outdoor Air Infiltration

N

Infiltration Into Air Ducts

Y

5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame Concrete Stone Brick, Steele
- b. Basement Type: Full Crawlspace Slab Other NA
- c. Basement Floor: Concrete Dirt Stone Other NA
- d. Basement Floor: Uncovered Covered Covered With NA
- e. Concrete Floor: Unsealed Sealed Sealed With tile
- f. Foundation Walls: Poured Block Stone Other ?
- g. Foundation Walls: Unsealed Sealed Sealed With ?
- h. The Basement Is: Wet Damp Dry Moldy NA
- i. The Basement Is: Finished Unfinished Partially Finished NA
- j. Sump Present? Y/N
- k. Water In Sump? Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: \_\_\_\_\_(feet)

Does the basement flood at any time during the year? Y/N

Is it possible to determine how deep water is below the basement floor? Y/N

If yes, approximately how deep? ~5-7'

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains)

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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump       | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Steam Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove      | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |  |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: \_\_\_\_\_

Boiler/Furnace Located In:    Basement    Outdoors     Main Floor  
Other 4<sup>th</sup> floor

Air Conditioning:     Central Air    Window Units    Open Windows    None

Are There Air Distribution Ducts Present?     Y/N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7.0 OCCUPANCY

Is the Basement/Lowest Level Occupied? Full-time Occasionally  
Seldom Almost Never

Level General Use Each Floor (family room, bedroom, laundry, workshop, storage)

<del>Basement</del>	_____
1 <sup>st</sup> Floor	<u>Admin, processes</u>
2 <sup>nd</sup> Floor	_____
3 <sup>rd</sup> Floor	_____
4 <sup>th</sup> Floor	<u>mechanical</u>

8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is There An Attached Garage? Y/N
- b. Does the Garage Have a Separate Heating Unit? Y/N/NA
- c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)? Y/N/NA Please Specify \_\_\_\_\_
- d. Has the Building Ever Had a Fire? Y/N When? \_\_\_\_\_
- e. Is a Kerosene or Unvented Gas Space Heater Present? Y/N Where? \_\_\_\_\_
- f. Is There a Workshop or Hobby/Craft Area? Y/N Where&Type? \_\_\_\_\_
- g. Is There Smoking in the Building? Y/N How Frequently? \_\_\_\_\_
- h. Have Cleaning Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- i. Have Cosmetic Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- j. Has Painting/Staining Been Done in the Last 6 Months? Y/N  
Where & When \_\_\_\_\_
- k. Is There New Carpet, Drapes, or Other Textiles? Y/N  
Where & When \_\_\_\_\_

l. Have Air Fresheners Been Used Recently? Y/N  When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan? Y/N  If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan? Y/N

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer? Y/N  If Yes, Is it Vented Outside? Y/N

p. Has There Been a Pesticide Application? Y/N  When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work? Y/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work? Y/N

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly) No

Yes, Use Dry-Cleaning Infrequently (Monthly or Less) Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure? Y/N

Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water    Drilled Well    Driven Well    Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer    Septic Tank    Leach Field    Dry Well

Other: \_\_\_\_\_

### 10.0 FLOOR PLANS

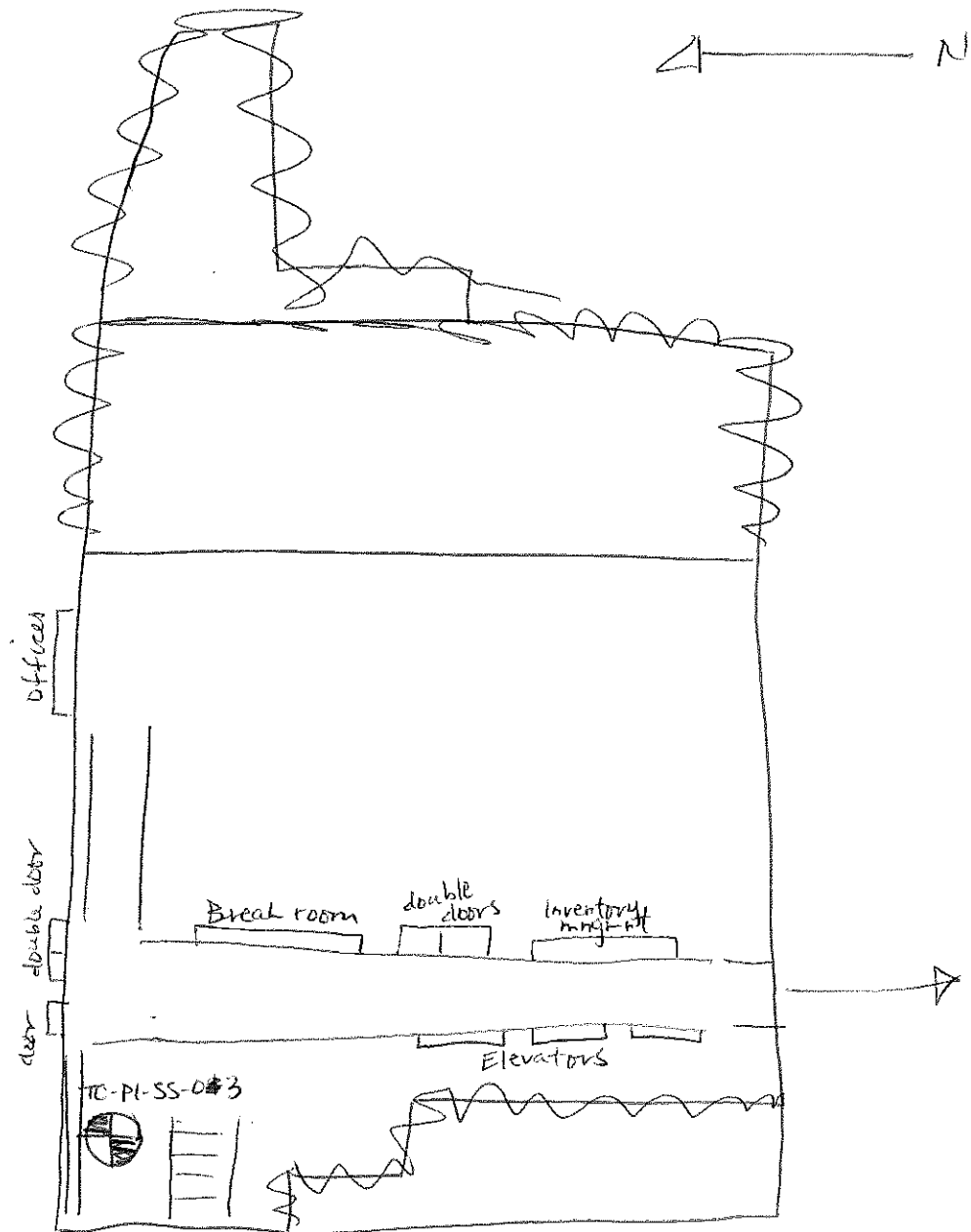
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.

Building  
202

Basement:

First Floor:

Second Floor:



### **11.0 OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.**



**12.0 PRODUCT INVENTORY FORM**

N/A

Make and Model of Field Instrument Used: \_\_\_\_\_

List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y/N</u>

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
 \*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling? Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?

TE-P4A-SS-04  
IA-04

Hunter Power

Environmental  
Resources  
Management

399 Boylston Street, 6<sup>th</sup> Floor  
Boston, MA 02116  
(617) 646-7800  
(617) 267-6447 (fax)

<http://www.erm.com>

## INDOOR AIR RESIDENTIAL SURVEY

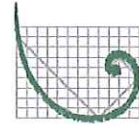
*This form must be completed for each residence involved in sub-slab  
and/or indoor air testing.*

Preparer's Name Kris Perreiti

Date/Time Prepared 3/11/09 3:30 pm

Preparer's Affiliation ERM

Phone # \_\_\_\_\_



**ERM**

Purpose of Investigation \_\_\_\_\_

### 1.0 OCCUPANT

Interviewed: Y/N

Last Name \_\_\_\_\_

First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_

Office Phone \_\_\_\_\_

Number of Occupants/Persons at This Location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

### 2.0 OWNER OR LANDLORD

Check if same as occupant \_\_\_\_\_

Interviewed: Y/N

Last Name \_\_\_\_\_

First Name \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_

Home Phone \_\_\_\_\_

Office Phone \_\_\_\_\_

3.0 BUILDING CHARACTERISTICS

Type of Residence (Circle appropriate Response)

- Ranch                      2-Family                      3-Family
- Raised Ranch              Split Level                      Colonial
- Cape Cod                      Contemporary                      Mobile Home
- Duplex                      Apartment House                      Townhouses/Condos
- Modular                      Log Home                      Other: Industrial - Hunter Power Space

If Multiple Units, How Many? \_\_\_\_\_

Is Any of the Property Used as Commercial Space? \_\_\_\_\_

House Construction:

Number of Floors 1                      Building Age 20 yrs.

Is the Building Insulated? Yes                      How Air Tight? Tight / Average / Not Tight

Does the House Have a Basement? No \_\_\_\_\_

4.0 AIRFLOW

Airflow Between Floors

NA  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Airflow Near Source

None Det 250 A, floor fans  
\_\_\_\_\_  
\_\_\_\_\_

Outdoor Air Infiltration

Fixed Windows

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Infiltration Into Air Ducts

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**5.0 BASEMENT AND CONSTRUCTION CHARACTERISTICS**

(Circle All That Apply)

- a. Above Grade Construction: Wood Frame    Concrete    Stone    Brick    STEEL
- b. Basement Type:                    Full                    Crawlspace    Slab    Other None
- c. Basement Floor:                    Concrete            Dirt                    Stone    Other NA
- d. Basement Floor:                    Uncovered            Covered            Covered With NA
- e. Concrete Floor:                    Unsealed            Sealed            Sealed With Paint
- f. Foundation Walls:                    Poured                    Block                    Stone    Other ?
- g. Foundation Walls:                    Unsealed                    Sealed                    Sealed With ?
- h. The Basement Is:                    Wet                    Damp                    Dry    Moldy    NA
- i. The Basement Is:                    Finished                    Unfinished            Partially Finished    NA
- j. Sump Present?                    Y/N
- k. Water In Sump?                    Y/N/Not Applicable

Basement/Lowest level Depth Below Grade: NA (feet)

Does the basement flood at any time during the year? Y/N

Is it possible to determine how deep water is below the basement floor? Y/N

If yes, approximately how deep? ~ 6 ft

Identify Potential Soil Vapor Entry Points and Approximate Size (e.g., cracks, utility ports, drains)

Columns, but sealed well

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**6.0 HEATING, VENTING, AND AIR CONDITIONING**

Type of Heating System(s) Used in This Building: (Circle All That Apply - Note Primary)

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> Hot Air Circulation | <input type="checkbox"/> Heat Pump        | <input type="checkbox"/> Hot Water Baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Stream Radiation | <input type="checkbox"/> Radiant Floor       |
| <input type="checkbox"/> Electric Baseboard             | <input type="checkbox"/> Wood Stove       | <input type="checkbox"/> Outdoor Wood Boiler |
| Other _____   |   |  |

The Primary Type of Fuel Used is:

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     |                                   |

Domestic Hot Water Tank Fueled By: Gas

Boiler/Furnace Located In:    Basement    Outdoors     Main Floor  
Other NA

Air Conditioning:    Central Air    Window Units    Open Windows     None

Are There Air Distribution Ducts Present?     Y/N

Describe the Supply and Cold Air Return Ductwork, and its Current Condition Where Visible, Including Whether There is a Cold Air Return and the Tightness of Duct Joints. Indicate the Locations on the Floor Plan Diagram.

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7.0 OCCUPANCY

Is the Basement/Lowest Level Occupied? Full-time Occasionally  
Seldom Almost Never

Level General Use Each Floor (family room, bedroom, laundry, workshop, storage)

Basement \_\_\_\_\_  
1st Floor 1<sup>st</sup> + 2<sup>nd</sup> shift manufacturing  
2nd Floor \_\_\_\_\_  
3rd Floor \_\_\_\_\_  
4th Floor \_\_\_\_\_

8.0 FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is There An Attached Garage? Y/N
- b. Does the Garage Have a Separate Heating Unit? Y/N/NA
- c. Are Petroleum-Powered Machines or Vehicles Stored in the Garage (e.g., lawnmower, atv, car)? Y/N/NA Please Specify Fork trucks - propane
- d. Has the Building Ever Had a Fire? Y/N When? \_\_\_\_\_
- e. Is a Kerosene or Unvented Gas Space Heater Present? Y/N Where? \_\_\_\_\_
- f. Is There a Workshop or Hobby/Craft Area? Y/N Where&Type? mfg + polystyrene panels
- g. Is There Smoking in the Building? Y/N How Frequently? break room
- h. Have Cleaning Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- i. Have Cosmetic Products Been Used Recently? Y/N When & Type? \_\_\_\_\_
- j. Has Painting/Staining Been Done in the Last 6 Months? Y/N  
Where & When \_\_\_\_\_
- k. Is There New Carpet, Drapes, or Other Textiles? Y/N  
Where & When \_\_\_\_\_

l. Have Air Fresheners Been Used Recently? Y/N When & Type? \_\_\_\_\_

m. Is There a Kitchen Exhaust Fan? Y/N If Yes, Where Vented? \_\_\_\_\_

n. Is There a Bathroom Exhaust Fan? Y/N

If Yes, Where Vented? \_\_\_\_\_

o. Is There a Clothes Dryer? Y/N If Yes, Is it Vented Outside? Y/N

p. Has There Been a Pesticide Application? Y/N When & Type? \_\_\_\_\_

q. Has There Been any Recent Home Construction? Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are There Odors in the Building?  Y/N

If Yes, Describe:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do Any of the Occupants Use Solvents at Work?  Y/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If Yes, What Types of Solvents Are Used?

polyol + isostyrene  
\_\_\_\_\_  
\_\_\_\_\_

If Yes, Are Their Clothes Washed At Work?  Y/N

Do Any of the Building Occupants Regularly Use or Work at a Dry-Cleaning Service?

(Circle Appropriate Response)

Yes, Use Dry-Cleaning Regularly (Weekly) No

Yes, Use Dry-Cleaning Infrequently (Monthly or Less) Unknown

Yes, Work at a Dry-Cleaning Service

Is There a Radon Mitigation System for the Building/Structure? Y/N



Date of Installation: \_\_\_\_\_

Is the System Active or Passive?                      Active/Passive

**9.0 WATER AND SEWAGE**

**Water Supply:**

Public Water    Drilled Well    Driven Well    Dug Well

Other: \_\_\_\_\_

**Sewage Disposal:**

Public Sewer    Septic Tank    Leach Field    Dry Well

Other: \_\_\_\_\_

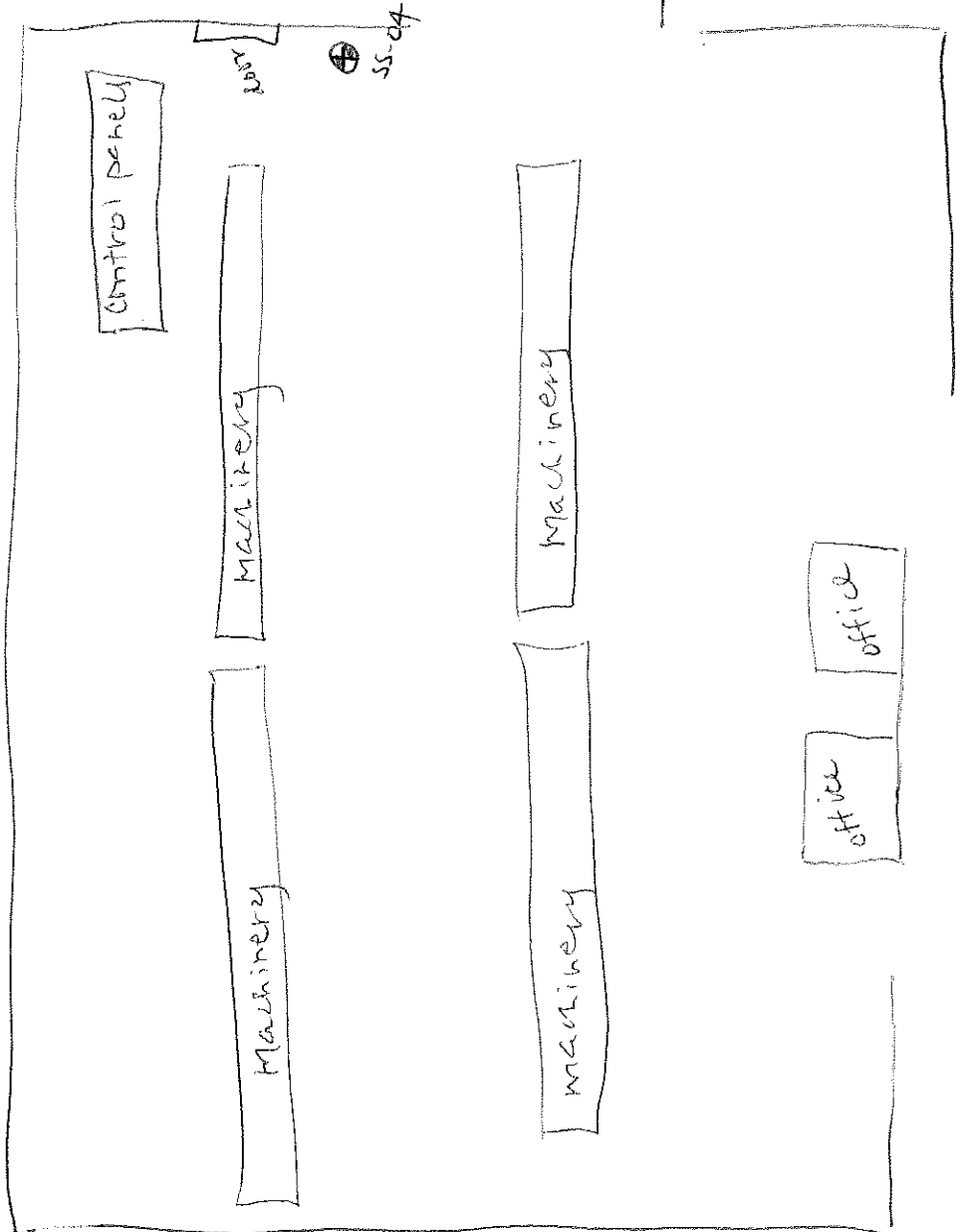
10.0 FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter testings. If the building does not have a basement, please note.

Basement:

First Floor:

Second Floor:



### **11.0 OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of well and septic systems, if applicable, and a qualifying statement to help locate the site on a topographic map.**

12.0 PRODUCT INVENTORY FORM

Make and Model of Field Instrument Used: \_\_\_\_\_

List Specific Products Found in the Residence That Have the Potential to Affect Indoor Air Quality. Do Not Open a Container to Determine the Contents or to Take a Field Instrument Reading.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
	polyol 13,800 gal	2 16K gal tanks	good			
	isocyanate 13,800 gal	2 16K gal tanks	good			
	potassium acetate	2000 lbs 1 tote	good			
	potassium octoate	3200 lbs x 4 totes	good			
	<del>ammonia</del> pot catalyst	2500 lbs 1 tote	good	pentamethyldiethylenetriamine		
	surfactant ① VORASURF ② PEL-SL 915B	10 1800 lb totes	good			
	4 ino } 2 poly }	195K <del>gal</del> <sup>lbs.</sup> each		(train cars outside E wall)		

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
 \*\* Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**13.0 AIR SAMPLING DISCUSSION**

Discuss what will happen the day of the indoor air sampling.

Will the occupants be home during sampling?                      Y/N

What hours will ERM have access to check on the samples? \_\_\_\_\_

Is there any activities of note planned between the time this survey was completed and when the indoor air sampling will be conducted (i.e., interior painting)?

*APPENDIX H*

*Laboratory Analytical Reports & DUSRs  
for Air Data*



## ANALYTICAL REPORT

Lab Number:	L0903165
Client:	ERM, Inc. 5788 Wide Waters Parkway Dewitt, NY 13214
ATTN:	Kris Perritt
Project Name:	TECH CITY
Project Number:	0096812
Report Date:	03/27/09

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:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L0903165-01	TC-P1-SS-01	KINGSTON, NY	03/13/09 14:30
L0903165-02	TC-P1-IA-01	KINGSTON, NY	03/13/09 15:30
L0903165-03	TC-P1-SS-02	KINGSTON, NY	03/13/09 13:50
L0903165-04	TC-P1-IA-02	KINGSTON, NY	03/13/09 15:15
L0903165-05	TC-P1-SS-03	KINGSTON, NY	03/13/09 15:00
L0903165-06	TC-P1-IA-03	KINGSTON, NY	03/13/09 16:35
L0903165-07	TC-P1-SS-04	KINGSTON, NY	03/13/09 16:45
L0903165-08	TC-P1-IA-04	KINGSTON, NY	03/13/09 19:20
L0903165-09	TC-P1-OA-01	KINGSTON, NY	03/13/09 16:25
L0903165-10	TC-P1-ASG-01	KINGSTON, NY	03/16/09 18:15
L0903165-11	TC-P1-OA-02	KINGSTON, NY	03/16/09 18:45
L0903165-12	TC-P4A-SS-01	KINGSTON, NY	03/13/09 16:05
L0903165-13	TC-P4A-IA-01	KINGSTON, NY	03/13/09 16:50
L0903165-14	TC-P4A-SS-02	KINGSTON, NY	03/13/09 14:45
L0903165-15	TC-P4A-IA-02	KINGSTON, NY	03/13/09 17:45
L0903165-16	TC-P4A-SS-03	KINGSTON, NY	03/13/09 16:00
L0903165-17	TC-P4A-IA-03	KINGSTON, NY	03/13/09 17:30
L0903165-18	TC-P4A-SS-04	KINGSTON, NY	03/13/09 15:00
L0903165-19	TC-P4A-IA-04	KINGSTON, NY	03/13/09 14:30
L0903165-20	TC-P4A-OA-01	KINGSTON, NY	03/13/09 19:00
L0903165-21	TC-P4A-ASG-01	KINGSTON, NY	03/16/09 18:25
L0903165-22	TC-P4A-ASG-02	KINGSTON, NY	03/16/09 18:20
L0903165-23	TC-P4A-ASG-03	KINGSTON, NY	03/16/09 17:30
L0903165-24	TC-P4A-ASG-04	KINGSTON, NY	03/16/09 18:35
L0903165-25	TC-P4A-OA-02	KINGSTON, NY	03/16/09 18:50
L0903165-26	TC-DUP-01	KINGSTON, NY	03/16/09 07:45
L0903165-27	CAN 1589	KINGSTON, NY	
L0903165-28	CAN 1627	KINGSTON, NY	
L0903165-29	CAN 793	KINGSTON, NY	
L0903165-30	CAN 711	KINGSTON, NY	
L0903165-31	CAN 1502	KINGSTON, NY	



<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L0903165-32	CAN 723	KINGSTON, NY	
L0903165-33	CAN 716	KINGSTON, NY	

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

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#### TO15-SIM

L0903165-01, -03, -05, -07, -10, -12, -14, -16, -18, and -21 through -24: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph due to low sample volume. The addition of Nitrogen resulted in a dilution of the sample. Additional dilutions were performed on samples -18, -21, -22 and -24 due to the concentration of non-target compounds present in the sample. The reporting limits have been elevated accordingly.

#### TO15-LL

L0903165-01, -03, -05, -07, -10, -12, -14, -16, -18, and -21 through -24: Prior to sample analysis, the

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### Case Narrative (continued)

canisters were pressurized with UHP Nitrogen due to low sample volume. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

L0903165-02, -04, -06, -08, -09, -11, -13, -15, -17, -19, -20, -25, and -26 results for Propylene should be considered estimated due to co-elution with a non-target peak.

L0903165-02, -04, -08, -15, -17, -19, -25, and -26 results for Acetone should be considered estimated due to co-elution with a non-target peak.

L0903165-05 The presence of Isopropyl Alcohol could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L0903165-07 results for Acetone should be considered estimated due to co-elution with a non-target peak.

The presence of Isopropyl Alcohol could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L0903165-10 was re-analyzed on a 5.3x dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L0903165-10, -12, -14, -16, -18 The presence of Isopropyl Alcohol could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L0903165-16 has elevated detection limits due to the 10.66x dilution required by the elevated concentrations of target compounds in the sample. The sample was re-analyzed on an 87x dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L0903165-18 was re-analyzed on a 11.1x dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L0903165-19 was re-analyzed on a 10x dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### Case Narrative (continued)

calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L0903165-19 The presence of Propylene could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L0903165-21 has elevated detection limits due to the 60.61x dilution required by the elevated concentrations of target compounds in the sample.

L0903165-22 has elevated detection limits due to the 97.38x dilution required by the elevated concentrations of target compounds in the sample.

L0903165-23 results for Propylene should be considered estimated due to co-elution with a non-target peak. The presence of Isopropyl Alcohol could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L0903165-24 has elevated detection limits due to the 12.02x dilution required by the elevated concentrations of target compounds in the sample.

L0903165-24 The presence of Isopropyl Alcohol could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

WG356482-4: The relative percent difference for o-xylene 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 WG356482-9 LCS recoveries for 1,2,4-Trichlorobenzene, Ethylbenzene, Hexachlorobutadiene, 4-Methyl-2-pentanone, and Tetrahydrofuran are outside the 70%-130% acceptance limit. Hexachlorobutadiene exceeded method allowance with a high response. Associated samples were non-detect for this compound, therefore no further action was taken.

The WG 356482-2 LCS recovery for Hexachlorobutadiene is 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: 03/27/09

**AIR**

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-01 D  
 Client ID: TC-P1-SS-01  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 16:42  
 Analyst: RY

Date Collected: 03/13/09 14:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.501	ND	2.73		2.505
1,1,2,2-Tetrachloroethane	ND	0.501	ND	3.44		2.505
1,1,2-Trichloroethane	ND	0.501	ND	2.73		2.505
1,1-Dichloroethane	ND	0.501	ND	2.03		2.505
1,1-Dichloroethene	ND	0.501	ND	1.98		2.505
1,2,4-Trichlorobenzene	ND	0.501	ND	3.71		2.505
1,2,4-Trimethylbenzene	ND	0.501	ND	2.46		2.505
1,2-Dibromoethane	ND	0.501	ND	3.85		2.505
1,2-Dichlorobenzene	ND	0.501	ND	3.01		2.505
1,2-Dichloroethane	ND	0.501	ND	2.03		2.505
1,2-Dichloropropane	ND	0.501	ND	2.31		2.505
1,3,5-Trimethylbenzene	ND	0.501	ND	2.46		2.505
1,3-Butadiene	ND	0.501	ND	1.11		2.505
1,3-Dichlorobenzene	ND	0.501	ND	3.01		2.505
1,4-Dichlorobenzene	ND	0.501	ND	3.01		2.505
1,4-Dioxane	ND	0.501	ND	1.80		2.505
2,2,4-Trimethylpentane	ND	0.501	ND	2.34		2.505
2-Butanone	3.76	0.501	11.1	1.48		2.505
2-Hexanone	ND	0.501	ND	2.05		2.505
3-Chloropropene	ND	0.501	ND	1.57		2.505
4-Ethyltoluene	ND	0.501	ND	2.46		2.505
Acetone	35.9	1.25	85.2	2.97		2.505
Benzene	3.85	0.501	12.3	1.60		2.505
Benzyl chloride	ND	0.501	ND	2.59		2.505
Bromodichloromethane	ND	0.501	ND	3.35		2.505



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-01 D

Date Collected: 03/13/09 14:30

Client ID: TC-P1-SS-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.501	ND	5.17		2.505
Bromomethane	ND	0.501	ND	1.94		2.505
Carbon disulfide	3.29	0.501	10.2	1.56		2.505
Carbon tetrachloride	ND	0.501	ND	3.15		2.505
Chlorobenzene	ND	0.501	ND	2.30		2.505
Chloroethane	ND	0.501	ND	1.32		2.505
Chloroform	ND	0.501	ND	2.44		2.505
Chloromethane	ND	0.501	ND	1.03		2.505
cis-1,2-Dichloroethene	ND	0.501	ND	1.98		2.505
cis-1,3-Dichloropropene	ND	0.501	ND	2.27		2.505
Cyclohexane	0.794	0.501	2.73	1.72		2.505
Dibromochloromethane	ND	0.501	ND	4.26		2.505
Dichlorodifluoromethane	0.606	0.501	2.99	2.48		2.505
Ethanol	31.7	6.26	59.7	11.8		2.505
Ethyl Acetate	ND	1.25	ND	4.51		2.505
Ethylbenzene	1.46	0.501	6.32	2.17		2.505
Freon-113	ND	0.501	ND	3.84		2.505
Freon-114	ND	0.501	ND	3.50		2.505
Hexachlorobutadiene	ND	0.501	ND	5.34		2.505
Isopropanol	ND	1.25	ND	3.08		2.505
Methylene chloride	1.63	1.25	5.67	4.35		2.505
4-Methyl-2-pentanone	ND	0.501	ND	2.05		2.505
Methyl tert butyl ether	ND	0.501	ND	1.80		2.505
p/m-Xylene	3.42	1.00	14.8	4.35		2.505
o-Xylene	0.974	0.501	4.22	2.17		2.505
Heptane	0.760	0.501	3.11	2.05		2.505
n-Hexane	1.01	0.501	3.56	1.76		2.505
Propylene	ND	2.50	ND	4.31		2.505



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-01 D

Date Collected: 03/13/09 14:30

Client ID: TC-P1-SS-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.921	0.501	3.92	2.13		2.505
Tetrachloroethene	ND	0.501	ND	3.40		2.505
Tetrahydrofuran	ND	0.501	ND	1.48		2.505
Toluene	9.76	0.501	36.8	1.89		2.505
trans-1,2-Dichloroethene	ND	0.501	ND	1.98		2.505
trans-1,3-Dichloropropene	ND	0.501	ND	2.27		2.505
Trichloroethene	ND	0.501	ND	2.69		2.505
Trichlorofluoromethane	ND	0.501	ND	2.81		2.505
Vinyl acetate	ND	0.501	ND	1.76		2.505
Vinyl bromide	ND	0.501	ND	2.19		2.505
Vinyl chloride	ND	0.501	ND	1.28		2.505





**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-01 D

Date Collected: 03/13/09 14:30

Client ID: TC-P1-SS-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 16:42

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.054	0.050	0.338	0.315		2.505
Trichloroethene	0.061	0.050	0.327	0.269		2.505
Vinyl chloride	ND	0.050	ND	0.128		2.505



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-02  
 Client ID: TC-P1-IA-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 18:22  
 Analyst: RY

Date Collected: 03/13/09 15:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.520	0.200	1.53	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	5.86	0.500	13.9	1.19		1
Benzene	0.356	0.200	1.14	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-02

Date Collected: 03/13/09 15:30

Client ID: TC-P1-IA-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.535	0.200	1.10	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.547	0.200	2.70	0.988		1
Ethanol	49.0	2.50	92.2	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	5.96	0.500	14.6	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	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-02  
 Client ID: TC-P1-IA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 15:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.214	0.200	0.805	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.246	0.200	1.38	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



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-02  
**Client ID:** TC-P1-IA-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 18:22  
**Analyst:** RY

**Date Collected:** 03/13/09 15:30  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.090	0.020	0.566	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-03 D  
 Client ID: TC-P1-SS-02  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 17:19  
 Analyst: RY

Date Collected: 03/13/09 13:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.445	ND	2.43		2.227
1,1,2,2-Tetrachloroethane	ND	0.445	ND	3.06		2.227
1,1,2-Trichloroethane	ND	0.445	ND	2.43		2.227
1,1-Dichloroethane	ND	0.445	ND	1.80		2.227
1,1-Dichloroethene	ND	0.445	ND	1.76		2.227
1,2,4-Trichlorobenzene	ND	0.445	ND	3.30		2.227
1,2,4-Trimethylbenzene	ND	0.445	ND	2.19		2.227
1,2-Dibromoethane	ND	0.445	ND	3.42		2.227
1,2-Dichlorobenzene	ND	0.445	ND	2.68		2.227
1,2-Dichloroethane	ND	0.445	ND	1.80		2.227
1,2-Dichloropropane	ND	0.445	ND	2.06		2.227
1,3,5-Trimethylbenzene	ND	0.445	ND	2.19		2.227
1,3-Butadiene	ND	0.445	ND	0.984		2.227
1,3-Dichlorobenzene	ND	0.445	ND	2.68		2.227
1,4-Dichlorobenzene	ND	0.445	ND	2.68		2.227
1,4-Dioxane	ND	0.445	ND	1.60		2.227
2,2,4-Trimethylpentane	ND	0.445	ND	2.08		2.227
2-Butanone	1.48	0.445	4.37	1.31		2.227
2-Hexanone	ND	0.445	ND	1.82		2.227
3-Chloropropene	ND	0.445	ND	1.39		2.227
4-Ethyltoluene	ND	0.445	ND	2.19		2.227
Acetone	14.8	1.11	35.2	2.64		2.227
Benzene	0.646	0.445	2.06	1.42		2.227
Benzyl chloride	ND	0.445	ND	2.30		2.227
Bromodichloromethane	ND	0.445	ND	2.98		2.227



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-03 D

Date Collected: 03/13/09 13:50

Client ID: TC-P1-SS-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.445	ND	4.60		2.227
Bromomethane	ND	0.445	ND	1.73		2.227
Carbon disulfide	0.591	0.445	1.84	1.38		2.227
Carbon tetrachloride	ND	0.445	ND	2.80		2.227
Chlorobenzene	ND	0.445	ND	2.05		2.227
Chloroethane	ND	0.445	ND	1.17		2.227
Chloroform	ND	0.445	ND	2.17		2.227
Chloromethane	ND	0.445	ND	0.919		2.227
cis-1,2-Dichloroethene	ND	0.445	ND	1.76		2.227
cis-1,3-Dichloropropene	ND	0.445	ND	2.02		2.227
Cyclohexane	ND	0.445	ND	1.53		2.227
Dibromochloromethane	ND	0.445	ND	3.79		2.227
Dichlorodifluoromethane	0.628	0.445	3.10	2.20		2.227
Ethanol	59.0	5.57	111	10.5		2.227
Ethyl Acetate	2.77	1.11	9.98	4.01		2.227
Ethylbenzene	0.628	0.445	2.72	1.93		2.227
Freon-113	ND	0.445	ND	3.41		2.227
Freon-114	ND	0.445	ND	3.11		2.227
Hexachlorobutadiene	ND	0.445	ND	4.75		2.227
Isopropanol	1.20	1.11	2.95	2.73		2.227
Methylene chloride	1.31	1.11	4.56	3.86		2.227
4-Methyl-2-pentanone	ND	0.445	ND	1.82		2.227
Methyl tert butyl ether	ND	0.445	ND	1.60		2.227
p/m-Xylene	1.71	0.891	7.43	3.86		2.227
o-Xylene	0.452	0.445	1.96	1.93		2.227
Heptane	0.814	0.445	3.33	1.82		2.227
n-Hexane	ND	0.445	ND	1.57		2.227
Propylene	ND	2.23	ND	3.83		2.227



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-03 D

Date Collected: 03/13/09 13:50

Client ID: TC-P1-SS-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.485	0.445	2.06	1.90		2.227
Tetrachloroethene	ND	0.445	ND	3.02		2.227
Tetrahydrofuran	ND	0.445	ND	1.31		2.227
Toluene	4.36	0.445	16.4	1.68		2.227
trans-1,2-Dichloroethene	ND	0.445	ND	1.76		2.227
trans-1,3-Dichloropropene	ND	0.445	ND	2.02		2.227
Trichloroethene	ND	0.445	ND	2.39		2.227
Trichlorofluoromethane	ND	0.445	ND	2.50		2.227
Vinyl acetate	ND	0.445	ND	1.57		2.227
Vinyl bromide	ND	0.445	ND	1.95		2.227
Vinyl chloride	ND	0.445	ND	1.14		2.227





**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-03 D

Date Collected: 03/13/09 13:50

Client ID: TC-P1-SS-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 17:19

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.071	0.045	0.448	0.280		2.227
Trichloroethene	0.055	0.045	0.298	0.239		2.227
Vinyl chloride	ND	0.045	ND	0.114		2.227



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-04  
 Client ID: TC-P1-IA-02  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 19:36  
 Analyst: RY

Date Collected: 03/13/09 15:15  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.426	0.200	1.26	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	5.37	0.500	12.7	1.19		1
Benzene	0.298	0.200	0.950	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-04

Date Collected: 03/13/09 15:15

Client ID: TC-P1-IA-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.558	0.200	1.15	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.588	0.200	2.90	0.988		1
Ethanol	24.1	2.50	45.4	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	6.94	0.500	17.0	1.23		1
Methylene chloride	0.504	0.500	1.75	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	0.293	0.200	1.20	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-04

Date Collected: 03/13/09 15:15

Client ID: TC-P1-IA-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.285	0.200	1.07	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.255	0.200	1.43	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

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-04  
 Client ID: TC-P1-IA-02  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/20/09 19:36  
 Analyst: RY

Date Collected: 03/13/09 15:15  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.556	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-05 D  
 Client ID: TC-P1-SS-03  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 17:56  
 Analyst: RY

Date Collected: 03/13/09 15:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.493	ND	2.69		2.464
1,1,2,2-Tetrachloroethane	ND	0.493	ND	3.38		2.464
1,1,2-Trichloroethane	ND	0.493	ND	2.69		2.464
1,1-Dichloroethane	ND	0.493	ND	1.99		2.464
1,1-Dichloroethene	ND	0.493	ND	1.95		2.464
1,2,4-Trichlorobenzene	ND	0.493	ND	3.65		2.464
1,2,4-Trimethylbenzene	ND	0.493	ND	2.42		2.464
1,2-Dibromoethane	ND	0.493	ND	3.78		2.464
1,2-Dichlorobenzene	ND	0.493	ND	2.96		2.464
1,2-Dichloroethane	ND	0.493	ND	1.99		2.464
1,2-Dichloropropane	ND	0.493	ND	2.28		2.464
1,3,5-Trimethylbenzene	ND	0.493	ND	2.42		2.464
1,3-Butadiene	ND	0.493	ND	1.09		2.464
1,3-Dichlorobenzene	ND	0.493	ND	2.96		2.464
1,4-Dichlorobenzene	ND	0.493	ND	2.96		2.464
1,4-Dioxane	ND	0.493	ND	1.77		2.464
2,2,4-Trimethylpentane	ND	0.493	ND	2.30		2.464
2-Butanone	1.31	0.493	3.87	1.45		2.464
2-Hexanone	ND	0.493	ND	2.02		2.464
3-Chloropropene	ND	0.493	ND	1.54		2.464
4-Ethyltoluene	ND	0.493	ND	2.42		2.464
Acetone	8.27	1.23	19.6	2.92		2.464
Benzene	ND	0.493	ND	1.57		2.464
Benzyl chloride	ND	0.493	ND	2.55		2.464
Bromodichloromethane	ND	0.493	ND	3.30		2.464



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-05 D

Date Collected: 03/13/09 15:00

Client ID: TC-P1-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.493	ND	5.09		2.464
Bromomethane	ND	0.493	ND	1.91		2.464
Carbon disulfide	0.606	0.493	1.89	1.53		2.464
Carbon tetrachloride	ND	0.493	ND	3.10		2.464
Chlorobenzene	ND	0.493	ND	2.27		2.464
Chloroethane	ND	0.493	ND	1.30		2.464
Chloroform	0.644	0.493	3.14	2.40		2.464
Chloromethane	ND	0.493	ND	1.02		2.464
cis-1,2-Dichloroethene	ND	0.493	ND	1.95		2.464
cis-1,3-Dichloropropene	ND	0.493	ND	2.23		2.464
Cyclohexane	ND	0.493	ND	1.69		2.464
Dibromochloromethane	ND	0.493	ND	4.19		2.464
Dichlorodifluoromethane	0.644	0.493	3.18	2.44		2.464
Ethanol	65.2	6.16	123	11.6		2.464
Ethyl Acetate	2.27	1.23	8.18	4.44		2.464
Ethylbenzene	ND	0.493	ND	2.14		2.464
Freon-113	ND	0.493	ND	3.77		2.464
Freon-114	ND	0.493	ND	3.44		2.464
Hexachlorobutadiene	ND	0.493	ND	5.25		2.464
Isopropanol	ND	1.23	ND	3.02		2.464
Methylene chloride	1.37	1.23	4.77	4.28		2.464
4-Methyl-2-pentanone	ND	0.493	ND	2.02		2.464
Methyl tert butyl ether	ND	0.493	ND	1.78		2.464
p/m-Xylene	ND	0.986	ND	4.28		2.464
o-Xylene	ND	0.493	ND	2.14		2.464
Heptane	0.511	0.493	2.09	2.02		2.464
n-Hexane	ND	0.493	ND	1.74		2.464
Propylene	ND	2.46	ND	4.24		2.464



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-05 D

Date Collected: 03/13/09 15:00

Client ID: TC-P1-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	4.13	0.493	17.6	2.10		2.464
Tetrachloroethene	ND	0.493	ND	3.34		2.464
Tetrahydrofuran	ND	0.493	ND	1.45		2.464
Toluene	1.15	0.493	4.33	1.86		2.464
trans-1,2-Dichloroethene	ND	0.493	ND	1.95		2.464
trans-1,3-Dichloropropene	ND	0.493	ND	2.23		2.464
Trichloroethene	ND	0.493	ND	2.65		2.464
Trichlorofluoromethane	ND	0.493	ND	2.77		2.464
Vinyl acetate	ND	0.493	ND	1.73		2.464
Vinyl bromide	ND	0.493	ND	2.15		2.464
Vinyl chloride	ND	0.493	ND	1.26		2.464





**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-05 D

Date Collected: 03/13/09 15:00

Client ID: TC-P1-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 17:56

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.055	0.049	0.347	0.310		2.464
Trichloroethene	0.246	0.049	1.32	0.265		2.464
Vinyl chloride	ND	0.049	ND	0.126		2.464



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-06  
 Client ID: TC-P1-IA-03  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 20:13  
 Analyst: RY

Date Collected: 03/13/09 16:35  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.268	0.200	0.791	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	2.52	0.500	6.00	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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-06

Date Collected: 03/13/09 16:35

Client ID: TC-P1-IA-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.504	0.200	1.04	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.625	0.200	3.09	0.988		1
Ethanol	14.2	2.50	26.8	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	3.22	0.500	7.91	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	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-06

Date Collected: 03/13/09 16:35

Client ID: TC-P1-IA-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.278	0.200	1.05	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.256	0.200	1.43	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

**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-06  
**Client ID:** TC-P1-IA-03  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 20:13  
**Analyst:** RY

**Date Collected:** 03/13/09 16:35  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.089	0.020	0.559	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-07 D  
 Client ID: TC-P1-SS-04  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 18:35  
 Analyst: RY

Date Collected: 03/13/09 16:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	0.644	0.505	3.51	2.75		2.526
1,1,2,2-Tetrachloroethane	ND	0.505	ND	3.46		2.526
1,1,2-Trichloroethane	ND	0.505	ND	2.75		2.526
1,1-Dichloroethane	ND	0.505	ND	2.04		2.526
1,1-Dichloroethene	ND	0.505	ND	2.00		2.526
1,2,4-Trichlorobenzene	ND	0.505	ND	3.75		2.526
1,2,4-Trimethylbenzene	ND	0.505	ND	2.48		2.526
1,2-Dibromoethane	ND	0.505	ND	3.88		2.526
1,2-Dichlorobenzene	ND	0.505	ND	3.03		2.526
1,2-Dichloroethane	ND	0.505	ND	2.04		2.526
1,2-Dichloropropane	ND	0.505	ND	2.33		2.526
1,3,5-Trimethylbenzene	ND	0.505	ND	2.48		2.526
1,3-Butadiene	6.24	0.505	13.8	1.12		2.526
1,3-Dichlorobenzene	ND	0.505	ND	3.03		2.526
1,4-Dichlorobenzene	ND	0.505	ND	3.03		2.526
1,4-Dioxane	ND	0.505	ND	1.82		2.526
2,2,4-Trimethylpentane	ND	0.505	ND	2.36		2.526
2-Butanone	4.94	0.505	14.5	1.49		2.526
2-Hexanone	ND	0.505	ND	2.07		2.526
3-Chloropropene	ND	0.505	ND	1.58		2.526
4-Ethyltoluene	ND	0.505	ND	2.48		2.526
Acetone	34.5	1.26	82.0	3.00		2.526
Benzene	4.49	0.505	14.3	1.61		2.526
Benzyl chloride	ND	0.505	ND	2.61		2.526
Bromodichloromethane	ND	0.505	ND	3.38		2.526



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-07 D

Date Collected: 03/13/09 16:45

Client ID: TC-P1-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.505	ND	5.22		2.526
Bromomethane	ND	0.505	ND	1.96		2.526
Carbon disulfide	1.18	0.505	3.66	1.57		2.526
Carbon tetrachloride	ND	0.505	ND	3.18		2.526
Chlorobenzene	ND	0.505	ND	2.32		2.526
Chloroethane	ND	0.505	ND	1.33		2.526
Chloroform	ND	0.505	ND	2.46		2.526
Chloromethane	ND	0.505	ND	1.04		2.526
cis-1,2-Dichloroethene	ND	0.505	ND	2.00		2.526
cis-1,3-Dichloropropene	ND	0.505	ND	2.29		2.526
Cyclohexane	1.72	0.505	5.90	1.74		2.526
Dibromochloromethane	ND	0.505	ND	4.30		2.526
Dichlorodifluoromethane	1.32	0.505	6.54	2.50		2.526
Ethanol	9.68	6.32	18.2	11.9		2.526
Ethyl Acetate	ND	1.26	ND	4.55		2.526
Ethylbenzene	0.910	0.505	3.95	2.19		2.526
Freon-113	ND	0.505	ND	3.87		2.526
Freon-114	ND	0.505	ND	3.53		2.526
Hexachlorobutadiene	ND	0.505	ND	5.38		2.526
Isopropanol	ND	1.26	ND	3.10		2.526
Methylene chloride	1.57	1.26	5.45	4.38		2.526
4-Methyl-2-pentanone	ND	0.505	ND	2.07		2.526
Methyl tert butyl ether	ND	0.505	ND	1.82		2.526
p/m-Xylene	2.33	1.01	10.1	4.38		2.526
o-Xylene	0.666	0.505	2.89	2.19		2.526
Heptane	0.622	0.505	2.55	2.07		2.526
n-Hexane	1.03	0.505	3.62	1.78		2.526
Propylene	47.6	2.53	81.8	4.34		2.526



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-07 D

Date Collected: 03/13/09 16:45

Client ID: TC-P1-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.777	0.505	3.31	2.15		2.526
Tetrachloroethene	ND	0.505	ND	3.42		2.526
Tetrahydrofuran	ND	0.505	ND	1.49		2.526
Toluene	6.28	0.505	23.6	1.90		2.526
trans-1,2-Dichloroethene	ND	0.505	ND	2.00		2.526
trans-1,3-Dichloropropene	ND	0.505	ND	2.29		2.526
Trichloroethene	ND	0.505	ND	2.71		2.526
Trichlorofluoromethane	0.964	0.505	5.41	2.84		2.526
Vinyl acetate	ND	0.505	ND	1.78		2.526
Vinyl bromide	ND	0.505	ND	2.21		2.526
Vinyl chloride	ND	0.505	ND	1.29		2.526





**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-07 D

Date Collected: 03/13/09 16:45

Client ID: TC-P1-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 18:35

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.051	ND	0.318		2.526
Trichloroethene	0.055	0.051	0.296	0.271		2.526
Vinyl chloride	ND	0.051	ND	0.129		2.526



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-08  
 Client ID: TC-P1-IA-04  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 20:51  
 Analyst: RY

Date Collected: 03/13/09 19:20  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.609	0.200	1.79	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	7.29	0.500	17.3	1.19		1
Benzene	0.651	0.200	2.08	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-08

Date Collected: 03/13/09 19:20

Client ID: TC-P1-IA-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.622	0.200	1.28	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.656	0.200	3.24	0.988		1
Ethanol	31.7	2.50	59.7	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	8.27	0.500	20.3	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.225	0.200	0.920	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	0.440	0.200	1.80	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-08

Date Collected: 03/13/09 19:20

Client ID: TC-P1-IA-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.203	0.200	0.864	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Tetrahydrofuran	ND	0.200	ND	0.589		1
Toluene	0.905	0.200	3.41	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.291	0.200	1.63	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

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-08  
 Client ID: TC-P1-IA-04  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/20/09 20:51  
 Analyst: RY

Date Collected: 03/13/09 19:20  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.090	0.020	0.563	0.126		1
Trichloroethene	0.022	0.020	0.116	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-09  
 Client ID: TC-P1-OA-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 21:28  
 Analyst: RY

Date Collected: 03/13/09 16:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.239	0.200	0.705	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	2.70	0.500	6.42	1.19		1
Benzene	0.226	0.200	0.723	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-09

Date Collected: 03/13/09 16:25

Client ID: TC-P1-OA-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.563	0.200	1.16	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.468	0.200	2.32	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-09

Date Collected: 03/13/09 16:25

Client ID: TC-P1-OA-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.226	0.200	0.852	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.241	0.200	1.35	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





**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-09  
**Client ID:** TC-P1-OA-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 21:28  
**Analyst:** RY

**Date Collected:** 03/13/09 16:25  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.551	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-10 D  
 Client ID: TC-P1-ASG-01  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 19:11  
 Analyst: RY

Date Collected: 03/16/09 18:15  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.529	ND	2.88		2.646
1,1,2,2-Tetrachloroethane	ND	0.529	ND	3.63		2.646
1,1,2-Trichloroethane	ND	0.529	ND	2.88		2.646
1,1-Dichloroethane	ND	0.529	ND	2.14		2.646
1,1-Dichloroethene	ND	0.529	ND	2.10		2.646
1,2,4-Trichlorobenzene	ND	0.529	ND	3.92		2.646
1,2,4-Trimethylbenzene	1.77	0.529	8.71	2.60		2.646
1,2-Dibromoethane	ND	0.529	ND	4.06		2.646
1,2-Dichlorobenzene	ND	0.529	ND	3.18		2.646
1,2-Dichloroethane	ND	0.529	ND	2.14		2.646
1,2-Dichloropropane	ND	0.529	ND	2.44		2.646
1,3,5-Trimethylbenzene	0.771	0.529	3.79	2.60		2.646
1,3-Butadiene	ND	0.529	ND	1.17		2.646
1,3-Dichlorobenzene	ND	0.529	ND	3.18		2.646
1,4-Dichlorobenzene	2.34	0.529	14.1	3.18		2.646
1,4-Dioxane	ND	0.529	ND	1.90		2.646
2,2,4-Trimethylpentane	ND	0.529	ND	2.47		2.646
2-Butanone	7.04	0.529	20.7	1.56		2.646
2-Hexanone	0.784	0.529	3.21	2.17		2.646
3-Chloropropene	ND	0.529	ND	1.66		2.646
4-Ethyltoluene	ND	0.529	ND	2.60		2.646
Acetone	303	1.32	720	3.14	E	2.646
Benzene	0.604	0.529	1.93	1.69		2.646
Benzyl chloride	ND	0.529	ND	2.74		2.646
Bromodichloromethane	ND	0.529	ND	3.54		2.646



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-10 D

Date Collected: 03/16/09 18:15

Client ID: TC-P1-ASG-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.529	ND	5.46		2.646
Bromomethane	ND	0.529	ND	2.05		2.646
Carbon disulfide	5.08	0.529	15.8	1.65		2.646
Carbon tetrachloride	ND	0.529	ND	3.33		2.646
Chlorobenzene	ND	0.529	ND	2.43		2.646
Chloroethane	ND	0.529	ND	1.40		2.646
Chloroform	0.942	0.529	4.60	2.58		2.646
Chloromethane	ND	0.529	ND	1.09		2.646
cis-1,2-Dichloroethene	ND	0.529	ND	2.10		2.646
cis-1,3-Dichloropropene	ND	0.529	ND	2.40		2.646
Cyclohexane	ND	0.529	ND	1.82		2.646
Dibromochloromethane	ND	0.529	ND	4.50		2.646
Dichlorodifluoromethane	0.579	0.529	2.86	2.62		2.646
Ethanol	ND	6.62	ND	12.4		2.646
Ethyl Acetate	ND	1.32	ND	4.76		2.646
Ethylbenzene	2.13	0.529	9.24	2.30		2.646
Freon-113	ND	0.529	ND	4.05		2.646
Freon-114	ND	0.529	ND	3.70		2.646
Hexachlorobutadiene	ND	0.529	ND	5.64		2.646
Isopropanol	ND	1.32	ND	3.25		2.646
Methylene chloride	ND	1.32	ND	4.59		2.646
4-Methyl-2-pentanone	ND	0.529	ND	2.17		2.646
Methyl tert butyl ether	ND	0.529	ND	1.91		2.646
p/m-Xylene	8.31	1.06	36.1	4.59		2.646
o-Xylene	2.86	0.529	12.4	2.30		2.646
Heptane	0.845	0.529	3.46	2.17		2.646
n-Hexane	ND	0.529	ND	1.86		2.646
Propylene	4.50	2.44	7.74	4.20		2.646



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-10 D

Date Collected: 03/16/09 18:15

Client ID: TC-P1-ASG-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.529	ND	2.25		2.646
Tetrachloroethene	0.783	0.529	5.30	3.59		2.646
Tetrahydrofuran	ND	0.529	ND	1.56		2.646
Toluene	5.05	0.529	19.0	1.99		2.646
trans-1,2-Dichloroethene	ND	0.529	ND	2.10		2.646
trans-1,3-Dichloropropene	ND	0.529	ND	2.40		2.646
Trichloroethene	ND	0.529	ND	2.84		2.646
Trichlorofluoromethane	ND	0.529	ND	2.97		2.646
Vinyl acetate	ND	0.529	ND	1.86		2.646
Vinyl bromide	ND	0.529	ND	2.31		2.646
Vinyl chloride	ND	0.529	ND	1.35		2.646



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-10 D  
**Client ID:** TC-P1-ASG-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 19:11  
**Analyst:** RY

**Date Collected:** 03/16/09 18:15  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.053	ND	0.333		2.646
Trichloroethene	0.053	0.053	0.286	0.284		2.646
Vinyl chloride	ND	0.053	ND	0.135		2.646



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-10 DR

Date Collected: 03/16/09 18:15

Client ID: TC-P1-ASG-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 03/22/09 01:49

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	241	2.65	571	6.28		5.292



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-11  
 Client ID: TC-P1-OA-02  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 22:05  
 Analyst: RY

Date Collected: 03/16/09 18:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.375	0.200	1.10	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	3.44	0.500	8.18	1.19		1
Benzene	0.256	0.200	0.816	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-11

Date Collected: 03/16/09 18:45

Client ID: TC-P1-OA-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.517	0.200	1.07	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.468	0.200	2.31	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1





Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-11

Date Collected: 03/16/09 18:45

Client ID: TC-P1-OA-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.217	0.200	0.817	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.218	0.200	1.22	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



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-11  
**Client ID:** TC-P1-OA-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 22:05  
**Analyst:** RY

**Date Collected:** 03/16/09 18:45  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.551	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-12 D  
 Client ID: TC-P4A-SS-01  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 20:26  
 Analyst: RY

Date Collected: 03/13/09 16:05  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	0.955	0.462	5.21	2.52		2.312
1,1,2,2-Tetrachloroethane	ND	0.462	ND	3.17		2.312
1,1,2-Trichloroethane	ND	0.462	ND	2.52		2.312
1,1-Dichloroethane	ND	0.462	ND	1.87		2.312
1,1-Dichloroethene	ND	0.462	ND	1.83		2.312
1,2,4-Trichlorobenzene	ND	0.462	ND	3.43		2.312
1,2,4-Trimethylbenzene	ND	0.462	ND	2.27		2.312
1,2-Dibromoethane	ND	0.462	ND	3.55		2.312
1,2-Dichlorobenzene	ND	0.462	ND	2.78		2.312
1,2-Dichloroethane	ND	0.462	ND	1.87		2.312
1,2-Dichloropropane	ND	0.462	ND	2.14		2.312
1,3,5-Trimethylbenzene	ND	0.462	ND	2.27		2.312
1,3-Butadiene	ND	0.462	ND	1.02		2.312
1,3-Dichlorobenzene	ND	0.462	ND	2.78		2.312
1,4-Dichlorobenzene	ND	0.462	ND	2.78		2.312
1,4-Dioxane	ND	0.462	ND	1.66		2.312
2,2,4-Trimethylpentane	ND	0.462	ND	2.16		2.312
2-Butanone	0.732	0.462	2.16	1.36		2.312
2-Hexanone	ND	0.462	ND	1.89		2.312
3-Chloropropene	ND	0.462	ND	1.45		2.312
4-Ethyltoluene	ND	0.462	ND	2.27		2.312
Acetone	7.19	1.16	17.1	2.74		2.312
Benzene	0.614	0.462	1.96	1.48		2.312
Benzyl chloride	ND	0.462	ND	2.39		2.312
Bromodichloromethane	ND	0.462	ND	3.10		2.312



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-12 D

Date Collected: 03/13/09 16:05

Client ID: TC-P4A-SS-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.462	ND	4.78		2.312
Bromomethane	ND	0.462	ND	1.79		2.312
Carbon disulfide	ND	0.462	ND	1.44		2.312
Carbon tetrachloride	ND	0.462	ND	2.91		2.312
Chlorobenzene	ND	0.462	ND	2.13		2.312
Chloroethane	ND	0.462	ND	1.22		2.312
Chloroform	ND	0.462	ND	2.26		2.312
Chloromethane	ND	0.462	ND	0.954		2.312
cis-1,2-Dichloroethene	ND	0.462	ND	1.83		2.312
cis-1,3-Dichloropropene	ND	0.462	ND	2.10		2.312
Cyclohexane	ND	0.462	ND	1.59		2.312
Dibromochloromethane	ND	0.462	ND	3.94		2.312
Dichlorodifluoromethane	0.683	0.462	3.38	2.28		2.312
Ethanol	6.57	5.78	12.4	10.9		2.312
Ethyl Acetate	ND	1.16	ND	4.16		2.312
Ethylbenzene	ND	0.462	ND	2.01		2.312
Freon-113	ND	0.462	ND	3.54		2.312
Freon-114	ND	0.462	ND	3.23		2.312
Hexachlorobutadiene	ND	0.462	ND	4.93		2.312
Isopropanol	ND	1.16	ND	2.84		2.312
Methylene chloride	1.30	1.16	4.50	4.01		2.312
4-Methyl-2-pentanone	ND	0.462	ND	1.89		2.312
Methyl tert butyl ether	ND	0.462	ND	1.66		2.312
p/m-Xylene	1.02	0.925	4.41	4.01		2.312
o-Xylene	ND	0.462	ND	2.01		2.312
Heptane	ND	0.462	ND	1.89		2.312
n-Hexane	ND	0.462	ND	1.63		2.312
Propylene	ND	2.31	ND	3.98		2.312



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-12 D

Date Collected: 03/13/09 16:05

Client ID: TC-P4A-SS-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.462	ND	1.97		2.312
Tetrachloroethene	ND	0.462	ND	3.13		2.312
Tetrahydrofuran	ND	0.462	ND	1.36		2.312
Toluene	3.12	0.462	11.8	1.74		2.312
trans-1,2-Dichloroethene	ND	0.462	ND	1.83		2.312
trans-1,3-Dichloropropene	ND	0.462	ND	2.10		2.312
Trichloroethene	ND	0.462	ND	2.48		2.312
Trichlorofluoromethane	ND	0.462	ND	2.60		2.312
Vinyl acetate	ND	0.462	ND	1.63		2.312
Vinyl bromide	ND	0.462	ND	2.02		2.312
Vinyl chloride	ND	0.462	ND	1.18		2.312



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-12 D

Date Collected: 03/13/09 16:05

Client ID: TC-P4A-SS-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 20:26

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.046	ND	0.291		2.312
Trichloroethene	0.063	0.046	0.336	0.248		2.312
Vinyl chloride	ND	0.046	ND	0.118		2.312



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-13  
 Client ID: TC-P4A-IA-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 22:42  
 Analyst: RY

Date Collected: 03/13/09 16:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.281	0.200	0.827	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	1.88	0.500	4.45	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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-13

Date Collected: 03/13/09 16:50

Client ID: TC-P4A-IA-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.486	0.200	1.00	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.531	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	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	1.11	0.500	2.73	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	1.00	ND	1.72		1





Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-13  
 Client ID: TC-P4A-IA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.245	0.200	0.923	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.259	0.200	1.45	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



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-13  
**Client ID:** TC-P4A-IA-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 22:42  
**Analyst:** RY

**Date Collected:** 03/13/09 16:50  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.556	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-14 D  
 Client ID: TC-P4A-SS-02  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 21:03  
 Analyst: RY

Date Collected: 03/13/09 14:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.510	ND	2.78		2.548
1,1,2,2-Tetrachloroethane	ND	0.510	ND	3.50		2.548
1,1,2-Trichloroethane	ND	0.510	ND	2.78		2.548
1,1-Dichloroethane	ND	0.510	ND	2.06		2.548
1,1-Dichloroethene	ND	0.510	ND	2.02		2.548
1,2,4-Trichlorobenzene	ND	0.510	ND	3.78		2.548
1,2,4-Trimethylbenzene	ND	0.510	ND	2.50		2.548
1,2-Dibromoethane	ND	0.510	ND	3.91		2.548
1,2-Dichlorobenzene	ND	0.510	ND	3.06		2.548
1,2-Dichloroethane	ND	0.510	ND	2.06		2.548
1,2-Dichloropropane	ND	0.510	ND	2.35		2.548
1,3,5-Trimethylbenzene	ND	0.510	ND	2.50		2.548
1,3-Butadiene	ND	0.510	ND	1.13		2.548
1,3-Dichlorobenzene	ND	0.510	ND	3.06		2.548
1,4-Dichlorobenzene	ND	0.510	ND	3.06		2.548
1,4-Dioxane	ND	0.510	ND	1.83		2.548
2,2,4-Trimethylpentane	ND	0.510	ND	2.38		2.548
2-Butanone	1.47	0.510	4.34	1.50		2.548
2-Hexanone	ND	0.510	ND	2.08		2.548
3-Chloropropene	ND	0.510	ND	1.59		2.548
4-Ethyltoluene	ND	0.510	ND	2.50		2.548
Acetone	12.7	1.27	30.2	3.02		2.548
Benzene	ND	0.510	ND	1.63		2.548
Benzyl chloride	ND	0.510	ND	2.64		2.548
Bromodichloromethane	ND	0.510	ND	3.41		2.548



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-14 D

Date Collected: 03/13/09 14:45

Client ID: TC-P4A-SS-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.510	ND	5.26		2.548
Bromomethane	ND	0.510	ND	1.98		2.548
Carbon disulfide	0.633	0.510	1.97	1.58		2.548
Carbon tetrachloride	ND	0.510	ND	3.20		2.548
Chlorobenzene	ND	0.510	ND	2.34		2.548
Chloroethane	ND	0.510	ND	1.34		2.548
Chloroform	ND	0.510	ND	2.49		2.548
Chloromethane	ND	0.510	ND	1.05		2.548
cis-1,2-Dichloroethene	ND	0.510	ND	2.02		2.548
cis-1,3-Dichloropropene	ND	0.510	ND	2.31		2.548
Cyclohexane	ND	0.510	ND	1.75		2.548
Dibromochloromethane	ND	0.510	ND	4.34		2.548
Dichlorodifluoromethane	0.598	0.510	2.95	2.52		2.548
Ethanol	840	6.37	1580	12.0		2.548
Ethyl Acetate	20.7	1.27	74.6	4.59		2.548
Ethylbenzene	ND	0.510	ND	2.21		2.548
Freon-113	ND	0.510	ND	3.90		2.548
Freon-114	ND	0.510	ND	3.56		2.548
Hexachlorobutadiene	ND	0.510	ND	5.43		2.548
Isopropanol	ND	1.27	ND	3.13		2.548
Methylene chloride	1.42	1.27	4.93	4.42		2.548
4-Methyl-2-pentanone	ND	0.510	ND	2.08		2.548
Methyl tert butyl ether	ND	0.510	ND	1.84		2.548
p/m-Xylene	ND	1.02	ND	4.42		2.548
o-Xylene	ND	0.510	ND	2.21		2.548
Heptane	3.53	0.510	14.4	2.09		2.548
n-Hexane	ND	0.510	ND	1.79		2.548
Propylene	ND	2.55	ND	4.38		2.548



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-14 D

Date Collected: 03/13/09 14:45

Client ID: TC-P4A-SS-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.510	ND	2.17		2.548
Tetrachloroethene	ND	0.510	ND	3.45		2.548
Tetrahydrofuran	ND	0.510	ND	1.50		2.548
Toluene	2.45	0.510	9.21	1.92		2.548
trans-1,2-Dichloroethene	ND	0.510	ND	2.02		2.548
trans-1,3-Dichloropropene	ND	0.510	ND	2.31		2.548
Trichloroethene	ND	0.510	ND	2.74		2.548
Trichlorofluoromethane	0.526	0.510	2.95	2.86		2.548
Vinyl acetate	ND	0.510	ND	1.79		2.548
Vinyl bromide	ND	0.510	ND	2.23		2.548
Vinyl chloride	ND	0.510	ND	1.30		2.548



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-14 D

Date Collected: 03/13/09 14:45

Client ID: TC-P4A-SS-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 21:03

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.051	ND	0.320		2.548
Trichloroethene	ND	0.051	ND	0.274		2.548
Vinyl chloride	ND	0.051	ND	0.130		2.548

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-15  
 Client ID: TC-P4A-IA-02  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 23:19  
 Analyst: RY

Date Collected: 03/13/09 17:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	1.89	0.500	4.50	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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-15  
 Client ID: TC-P4A-IA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.545	0.200	1.12	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.520	0.200	2.57	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1





Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-15  
 Client ID: TC-P4A-IA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.261	0.200	1.47	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



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-15  
 Client ID: TC-P4A-IA-02  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/20/09 23:19  
 Analyst: RY

Date Collected: 03/13/09 17:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.090	0.020	0.568	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-16 D  
 Client ID: TC-P4A-SS-03  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 21:38  
 Analyst: RY

Date Collected: 03/13/09 16:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	2.13	ND	11.6		10.66
1,1,2,2-Tetrachloroethane	ND	2.13	ND	14.6		10.66
1,1,2-Trichloroethane	ND	2.13	ND	11.6		10.66
1,1-Dichloroethane	ND	2.13	ND	8.62		10.66
1,1-Dichloroethene	ND	2.13	ND	8.45		10.66
1,2,4-Trichlorobenzene	ND	2.13	ND	15.8		10.66
1,2,4-Trimethylbenzene	ND	2.13	ND	10.5		10.66
1,2-Dibromoethane	ND	2.13	ND	16.4		10.66
1,2-Dichlorobenzene	ND	2.13	ND	12.8		10.66
1,2-Dichloroethane	ND	2.13	ND	8.62		10.66
1,2-Dichloropropane	ND	2.13	ND	9.84		10.66
1,3,5-Trimethylbenzene	ND	2.13	ND	10.5		10.66
1,3-Butadiene	ND	2.13	ND	4.71		10.66
1,3-Dichlorobenzene	ND	2.13	ND	12.8		10.66
1,4-Dichlorobenzene	ND	2.13	ND	12.8		10.66
1,4-Dioxane	ND	2.13	ND	7.68		10.66
2,2,4-Trimethylpentane	ND	2.13	ND	9.95		10.66
2-Butanone	ND	2.13	ND	6.28		10.66
2-Hexanone	ND	2.13	ND	8.73		10.66
3-Chloropropene	ND	2.13	ND	6.67		10.66
4-Ethyltoluene	ND	2.13	ND	10.5		10.66
Acetone	8.02	5.33	19.0	12.6		10.66
Benzene	ND	2.13	ND	6.80		10.66
Benzyl chloride	ND	2.13	ND	11.0		10.66
Bromodichloromethane	ND	2.13	ND	14.3		10.66



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-16 D

Date Collected: 03/13/09 16:00

Client ID: TC-P4A-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	2.13	ND	22.0		10.66
Bromomethane	ND	2.13	ND	8.27		10.66
Carbon disulfide	ND	2.13	ND	6.63		10.66
Carbon tetrachloride	ND	2.13	ND	13.4		10.66
Chlorobenzene	ND	2.13	ND	9.81		10.66
Chloroethane	ND	2.13	ND	5.62		10.66
Chloroform	ND	2.13	ND	10.4		10.66
Chloromethane	ND	2.13	ND	4.40		10.66
cis-1,2-Dichloroethene	ND	2.13	ND	8.45		10.66
cis-1,3-Dichloropropene	ND	2.13	ND	9.67		10.66
Cyclohexane	ND	2.13	ND	7.33		10.66
Dibromochloromethane	ND	2.13	ND	18.1		10.66
Dichlorodifluoromethane	2050	2.13	10200	10.5	E	10.66
Ethanol	139	26.6	262	50.2		10.66
Ethyl Acetate	ND	5.33	ND	19.2		10.66
Ethylbenzene	ND	2.13	ND	9.25		10.66
Freon-113	ND	2.13	ND	16.3		10.66
Freon-114	ND	2.13	ND	14.9		10.66
Hexachlorobutadiene	ND	2.13	ND	22.7		10.66
Isopropanol	ND	5.33	ND	13.1		10.66
Methylene chloride	ND	5.33	ND	18.5		10.66
4-Methyl-2-pentanone	ND	2.13	ND	8.73		10.66
Methyl tert butyl ether	ND	2.13	ND	7.68		10.66
p/m-Xylene	ND	4.26	ND	18.5		10.66
o-Xylene	ND	2.13	ND	9.25		10.66
Heptane	ND	2.13	ND	8.73		10.66
n-Hexane	ND	2.13	ND	7.51		10.66
Propylene	ND	10.7	ND	18.3		10.66



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-16 D

Date Collected: 03/13/09 16:00

Client ID: TC-P4A-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	2.13	ND	9.07		10.66
Tetrachloroethene	ND	2.13	ND	14.4		10.66
Tetrahydrofuran	ND	2.13	ND	6.28		10.66
Toluene	ND	2.13	ND	8.03		10.66
trans-1,2-Dichloroethene	ND	2.13	ND	8.45		10.66
trans-1,3-Dichloropropene	ND	2.13	ND	9.67		10.66
Trichloroethene	2.37	2.13	12.7	11.4		10.66
Trichlorofluoromethane	ND	2.13	ND	12.0		10.66
Vinyl acetate	ND	2.13	ND	7.50		10.66
Vinyl bromide	ND	2.13	ND	9.32		10.66
Vinyl chloride	ND	2.13	ND	5.44		10.66



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-16 D

Date Collected: 03/13/09 16:00

Client ID: TC-P4A-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 03/23/09 19:40

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Dichlorodifluoromethane	1460	17.4	7220	86.0		87.02



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-16 D

Date Collected: 03/13/09 16:00

Client ID: TC-P4A-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 21:38

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.213	ND	1.34		10.66
Trichloroethene	2.16	0.213	11.6	1.14		10.66
Vinyl chloride	ND	0.213	ND	0.544		10.66

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-17  
 Client ID: TC-P4A-IA-03  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/20/09 23:56  
 Analyst: RY

Date Collected: 03/13/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	3.32	0.500	7.88	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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-17  
 Client ID: TC-P4A-IA-03  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.507	0.200	1.04	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.920	0.200	4.55	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-17  
 Client ID: TC-P4A-IA-03  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.231	0.200	0.869	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.233	0.200	1.31	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



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-17  
**Client ID:** TC-P4A-IA-03  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 23:56  
**Analyst:** RY

**Date Collected:** 03/13/09 17:30  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.089	0.020	0.562	0.126		1
Trichloroethene	0.034	0.020	0.184	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-18 D  
 Client ID: TC-P4A-SS-04  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 22:15  
 Analyst: RY

Date Collected: 03/13/09 15:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.557	ND	3.03		2.783
1,1,2,2-Tetrachloroethane	ND	0.557	ND	3.82		2.783
1,1,2-Trichloroethane	ND	0.557	ND	3.03		2.783
1,1-Dichloroethane	ND	0.557	ND	2.25		2.783
1,1-Dichloroethene	ND	0.557	ND	2.20		2.783
1,2,4-Trichlorobenzene	ND	0.557	ND	4.13		2.783
1,2,4-Trimethylbenzene	ND	0.557	ND	2.73		2.783
1,2-Dibromoethane	ND	0.557	ND	4.27		2.783
1,2-Dichlorobenzene	ND	0.557	ND	3.34		2.783
1,2-Dichloroethane	ND	0.557	ND	2.25		2.783
1,2-Dichloropropane	ND	0.557	ND	2.57		2.783
1,3,5-Trimethylbenzene	ND	0.557	ND	2.73		2.783
1,3-Butadiene	ND	0.557	ND	1.23		2.783
1,3-Dichlorobenzene	ND	0.557	ND	3.34		2.783
1,4-Dichlorobenzene	ND	0.557	ND	3.34		2.783
1,4-Dioxane	5.05	0.557	18.2	2.00		2.783
2,2,4-Trimethylpentane	ND	0.557	ND	2.60		2.783
2-Butanone	8.76	0.557	25.8	1.64		2.783
2-Hexanone	ND	0.557	ND	2.28		2.783
3-Chloropropene	ND	0.557	ND	1.74		2.783
4-Ethyltoluene	ND	0.557	ND	2.73		2.783
Acetone	119	1.39	283	3.30		2.783
Benzene	1.17	0.557	3.73	1.78		2.783
Benzyl chloride	ND	0.557	ND	2.88		2.783
Bromodichloromethane	ND	0.557	ND	3.73		2.783



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-18 D

Date Collected: 03/13/09 15:00

Client ID: TC-P4A-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.557	ND	5.75		2.783
Bromomethane	ND	0.557	ND	2.16		2.783
Carbon disulfide	1.59	0.557	4.96	1.73		2.783
Carbon tetrachloride	ND	0.557	ND	3.50		2.783
Chlorobenzene	ND	0.557	ND	2.56		2.783
Chloroethane	ND	0.557	ND	1.47		2.783
Chloroform	ND	0.557	ND	2.72		2.783
Chloromethane	ND	0.557	ND	1.15		2.783
cis-1,2-Dichloroethene	ND	0.557	ND	2.20		2.783
cis-1,3-Dichloropropene	ND	0.557	ND	2.52		2.783
Cyclohexane	ND	0.557	ND	1.91		2.783
Dibromochloromethane	ND	0.557	ND	4.74		2.783
Dichlorodifluoromethane	0.590	0.557	2.92	2.75		2.783
Ethanol	2250	6.96	4240	13.1	E	2.783
Ethyl Acetate	22.0	1.39	79.2	5.01		2.783
Ethylbenzene	2.90	0.557	12.6	2.41		2.783
Freon-113	ND	0.557	ND	4.26		2.783
Freon-114	ND	0.557	ND	3.89		2.783
Hexachlorobutadiene	ND	0.557	ND	5.93		2.783
Isopropanol	ND	1.39	ND	3.42		2.783
Methylene chloride	4.22	1.39	14.6	4.83		2.783
4-Methyl-2-pentanone	ND	0.557	ND	2.28		2.783
Methyl tert butyl ether	ND	0.557	ND	2.00		2.783
p/m-Xylene	4.36	1.11	18.9	4.83		2.783
o-Xylene	1.10	0.557	4.76	2.41		2.783
Heptane	4.98	0.557	20.4	2.28		2.783
n-Hexane	ND	0.557	ND	1.96		2.783
Propylene	ND	2.78	ND	4.78		2.783



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-18 D

Date Collected: 03/13/09 15:00

Client ID: TC-P4A-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	1.06	0.557	4.50	2.37		2.783
Tetrachloroethene	ND	0.557	ND	3.77		2.783
Tetrahydrofuran	ND	0.557	ND	1.64		2.783
Toluene	8.11	0.557	30.5	2.10		2.783
trans-1,2-Dichloroethene	ND	0.557	ND	2.20		2.783
trans-1,3-Dichloropropene	ND	0.557	ND	2.52		2.783
Trichloroethene	ND	0.557	ND	2.99		2.783
Trichlorofluoromethane	0.589	0.557	3.30	3.12		2.783
Vinyl acetate	ND	0.557	ND	1.96		2.783
Vinyl bromide	ND	0.557	ND	2.43		2.783
Vinyl chloride	ND	0.557	ND	1.42		2.783



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-18 D

Date Collected: 03/13/09 15:00

Client ID: TC-P4A-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 03/22/09 03:37

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Ethanol	2300	27.8	4340	52.4		11.13



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-18 D

Date Collected: 03/13/09 15:00

Client ID: TC-P4A-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 22:15

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.083	0.056	0.520	0.350		2.783
Trichloroethene	0.196	0.056	1.05	0.299		2.783
Vinyl chloride	0.059	0.056	0.151	0.142		2.783





Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-19  
 Client ID: TC-P4A-IA-04  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 00:32  
 Analyst: RY

Date Collected: 03/13/09 14:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	8.27	0.200	38.2	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	138	0.200	498	0.720	E	1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	14.8	0.200	43.6	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	11.4	0.500	26.9	1.19		1
Benzene	0.521	0.200	1.66	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-19

Date Collected: 03/13/09 14:30

Client ID: TC-P4A-IA-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.873	0.200	4.01	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	1.04	0.200	2.15	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.692	0.200	2.38	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.483	0.200	2.39	0.988		1
Ethanol	6.30	2.50	11.8	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	0.636	0.200	2.76	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	5.98	0.500	14.7	1.23		1
Methylene chloride	71.9	0.500	250	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	1.82	0.400	7.88	1.74		1
o-Xylene	0.500	0.200	2.17	0.868		1
Heptane	2.26	0.200	9.27	0.819		1
n-Hexane	1.21	0.200	4.25	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-19  
 Client ID: TC-P4A-IA-04  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 14:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	1.00	0.200	3.78	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.276	0.200	1.55	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	0.406	0.200	1.04	0.511		1



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-19  
**Client ID:** TC-P4A-IA-04  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 00:32  
**Analyst:** RY

**Date Collected:** 03/13/09 14:30  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.072	0.020	0.454	0.126		1
Trichloroethene	0.050	0.020	0.270	0.107		1
Vinyl chloride	0.406	0.020	1.04	0.051		1



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

Lab ID: L0903165-19 DR

Date Collected: 03/13/09 14:30

Client ID: TC-P4A-IA-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 03/22/09 01:13

Analyst: RY

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,4-Dioxane	138	2.00	498	7.20		10



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-20  
 Client ID: TC-P4A-OA-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 01:09  
 Analyst: RY

Date Collected: 03/13/09 19:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.295	0.200	0.870	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	2.88	0.500	6.83	1.19		1
Benzene	0.208	0.200	0.663	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-20  
 Client ID: TC-P4A-OA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 19:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.549	0.200	1.13	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.472	0.200	2.33	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-20  
 Client ID: TC-P4A-OA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 19:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.254	0.200	1.43	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





Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-20  
 Client ID: TC-P4A-OA-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/21/09 01:09  
 Analyst: RY

Date Collected: 03/13/09 19:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.554	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-21 D  
 Client ID: TC-P4A-ASG-01  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 22:50  
 Analyst: RY

Date Collected: 03/16/09 18:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	12.1	ND	66.1		60.61
1,1,2,2-Tetrachloroethane	ND	12.1	ND	83.2		60.61
1,1,2-Trichloroethane	ND	12.1	ND	66.1		60.61
1,1-Dichloroethane	ND	12.1	ND	49.0		60.61
1,1-Dichloroethene	ND	12.1	ND	48.0		60.61
1,2,4-Trichlorobenzene	ND	12.1	ND	89.9		60.61
1,2,4-Trimethylbenzene	ND	12.1	ND	59.5		60.61
1,2-Dibromoethane	ND	12.1	ND	93.1		60.61
1,2-Dichlorobenzene	ND	12.1	ND	72.8		60.61
1,2-Dichloroethane	ND	12.1	ND	49.0		60.61
1,2-Dichloropropane	ND	12.1	ND	56.0		60.61
1,3,5-Trimethylbenzene	ND	12.1	ND	59.5		60.61
1,3-Butadiene	ND	12.1	ND	26.8		60.61
1,3-Dichlorobenzene	ND	12.1	ND	72.8		60.61
1,4-Dichlorobenzene	12.8	12.1	77.2	72.8		60.61
1,4-Dioxane	ND	12.1	ND	43.6		60.61
2,2,4-Trimethylpentane	ND	12.1	ND	56.6		60.61
2-Butanone	ND	12.1	ND	35.7		60.61
2-Hexanone	ND	12.1	ND	49.6		60.61
3-Chloropropene	ND	12.1	ND	37.9		60.61
4-Ethyltoluene	ND	12.1	ND	59.5		60.61
Acetone	407	30.3	967	71.9		60.61
Benzene	52.1	12.1	166	38.7		60.61
Benzyl chloride	ND	12.1	ND	62.7		60.61
Bromodichloromethane	ND	12.1	ND	81.2		60.61



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-21 D  
 Client ID: TC-P4A-ASG-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	12.1	ND	125.		60.61
Bromomethane	ND	12.1	ND	47.0		60.61
Carbon disulfide	ND	12.1	ND	37.7		60.61
Carbon tetrachloride	ND	12.1	ND	76.2		60.61
Chlorobenzene	ND	12.1	ND	55.8		60.61
Chloroethane	ND	12.1	ND	32.0		60.61
Chloroform	ND	12.1	ND	59.1		60.61
Chloromethane	ND	12.1	ND	25.0		60.61
cis-1,2-Dichloroethene	ND	12.1	ND	48.0		60.61
cis-1,3-Dichloropropene	ND	12.1	ND	55.0		60.61
Cyclohexane	ND	12.1	ND	41.7		60.61
Dibromochloromethane	ND	12.1	ND	103.		60.61
Dichlorodifluoromethane	ND	12.1	ND	59.9		60.61
Ethanol	ND	152	ND	285		60.61
Ethyl Acetate	ND	30.3	ND	109.		60.61
Ethylbenzene	ND	12.1	ND	52.6		60.61
Freon-113	ND	12.1	ND	92.8		60.61
Freon-114	ND	12.1	ND	84.7		60.61
Hexachlorobutadiene	ND	12.1	ND	129.		60.61
Isopropanol	ND	30.3	ND	74.4		60.61
Methylene chloride	ND	30.3	ND	105		60.61
4-Methyl-2-pentanone	ND	12.1	ND	49.6		60.61
Methyl tert butyl ether	ND	12.1	ND	43.7		60.61
p/m-Xylene	ND	24.2	ND	105		60.61
o-Xylene	ND	12.1	ND	52.6		60.61
Heptane	ND	12.1	ND	49.6		60.61
n-Hexane	ND	12.1	ND	42.7		60.61
Propylene	ND	60.6	ND	104		60.61



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-21 D  
 Client ID: TC-P4A-ASG-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	12.1	ND	51.6		60.61
Tetrachloroethene	ND	12.1	ND	82.1		60.61
Tetrahydrofuran	ND	12.1	ND	35.7		60.61
Toluene	5500	12.1	20700	45.6		60.61
trans-1,2-Dichloroethene	ND	12.1	ND	48.0		60.61
trans-1,3-Dichloropropene	ND	12.1	ND	55.0		60.61
Trichloroethene	ND	12.1	ND	65.1		60.61
Trichlorofluoromethane	ND	12.1	ND	68.0		60.61
Vinyl acetate	ND	12.1	ND	42.6		60.61
Vinyl bromide	ND	12.1	ND	53.0		60.61
Vinyl chloride	ND	12.1	ND	31.0		60.61



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-21 D  
**Client ID:** TC-P4A-ASG-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 22:50  
**Analyst:** RY

**Date Collected:** 03/16/09 18:25  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	1.21	ND	7.62		60.61
Trichloroethene	ND	1.21	ND	6.51		60.61
Vinyl chloride	ND	1.21	ND	3.10		60.61



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-22 D  
**Client ID:** TC-P4A-ASG-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 23:25  
**Analyst:** RY

**Date Collected:** 03/16/09 18:20  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	1.19	ND	7.50		59.64
Trichloroethene	ND	1.19	ND	6.40		59.64
Vinyl chloride	ND	1.19	ND	3.05		59.64



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-22 D3  
 Client ID: TC-P4A-ASG-02  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/27/09 00:42  
 Analyst: RY

Date Collected: 03/16/09 18:20  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	19.5	ND	106.		97.38
1,1,2,2-Tetrachloroethane	ND	19.5	ND	134.		97.38
1,1,2-Trichloroethane	ND	19.5	ND	106.		97.38
1,1-Dichloroethane	ND	19.5	ND	78.8		97.38
1,1-Dichloroethene	ND	19.5	ND	77.2		97.38
1,2,4-Trichlorobenzene	ND	19.5	ND	144.		97.38
1,2,4-Trimethylbenzene	ND	19.5	ND	95.7		97.38
1,2-Dibromoethane	ND	19.5	ND	150.		97.38
1,2-Dichlorobenzene	ND	19.5	ND	117.		97.38
1,2-Dichloroethane	ND	19.5	ND	78.8		97.38
1,2-Dichloropropane	ND	19.5	ND	89.9		97.38
1,3,5-Trimethylbenzene	ND	19.5	ND	95.7		97.38
1,3-Butadiene	ND	19.5	ND	43.0		97.38
1,3-Dichlorobenzene	ND	19.5	ND	117.		97.38
1,4-Dichlorobenzene	ND	19.5	ND	117.		97.38
1,4-Dioxane	ND	19.5	ND	70.1		97.38
2,2,4-Trimethylpentane	ND	19.5	ND	90.9		97.38
2-Butanone	ND	19.5	ND	57.4		97.38
2-Hexanone	ND	19.5	ND	79.7		97.38
3-Chloropropene	ND	19.5	ND	60.9		97.38
4-Ethyltoluene	ND	19.5	ND	95.7		97.38
Acetone	219	48.7	519	116		97.38
Benzene	ND	19.5	ND	62.2		97.38
Benzyl chloride	ND	19.5	ND	101.		97.38
Bromodichloromethane	ND	19.5	ND	130.		97.38



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-22 D3

Date Collected: 03/16/09 18:20

Client ID: TC-P4A-ASG-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	19.5	ND	201.		97.38
Bromomethane	ND	19.5	ND	75.6		97.38
Carbon disulfide	ND	19.5	ND	60.6		97.38
Carbon tetrachloride	ND	19.5	ND	122.		97.38
Chlorobenzene	ND	19.5	ND	89.6		97.38
Chloroethane	ND	19.5	ND	51.4		97.38
Chloroform	ND	19.5	ND	95.0		97.38
Chloromethane	ND	19.5	ND	40.2		97.38
cis-1,2-Dichloroethene	ND	19.5	ND	77.2		97.38
cis-1,3-Dichloropropene	ND	19.5	ND	88.3		97.38
Cyclohexane	ND	19.5	ND	67.0		97.38
Dibromochloromethane	ND	19.5	ND	166.		97.38
Dichlorodifluoromethane	ND	19.5	ND	96.2		97.38
Ethanol	ND	243	ND	458		97.38
Ethyl Acetate	ND	48.7	ND	175.		97.38
Ethylbenzene	ND	19.5	ND	84.5		97.38
Freon-113	ND	19.5	ND	149.		97.38
Freon-114	ND	19.5	ND	136.		97.38
Hexachlorobutadiene	ND	19.5	ND	208.		97.38
Isopropanol	ND	48.7	ND	120.		97.38
Methylene chloride	ND	48.7	ND	169		97.38
4-Methyl-2-pentanone	ND	19.5	ND	79.7		97.38
Methyl tert butyl ether	ND	19.5	ND	70.2		97.38
p/m-Xylene	ND	39.0	ND	169		97.38
o-Xylene	ND	19.5	ND	84.5		97.38
Heptane	ND	19.5	ND	79.8		97.38
n-Hexane	ND	19.5	ND	68.6		97.38
Propylene	ND	97.4	ND	167		97.38





Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-22 D3

Date Collected: 03/16/09 18:20

Client ID: TC-P4A-ASG-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	19.5	ND	82.9		97.38
Tetrachloroethene	ND	19.5	ND	132		97.38
Tetrahydrofuran	ND	19.5	ND	57.4		97.38
Toluene	4740	19.5	17800	73.3		97.38
trans-1,2-Dichloroethene	ND	19.5	ND	77.2		97.38
trans-1,3-Dichloropropene	ND	19.5	ND	88.3		97.38
Trichloroethene	ND	19.5	ND	104.		97.38
Trichlorofluoromethane	ND	19.5	ND	109.		97.38
Vinyl acetate	ND	19.5	ND	68.5		97.38
Vinyl bromide	ND	19.5	ND	85.1		97.38
Vinyl chloride	ND	19.5	ND	49.7		97.38



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-23 D  
 Client ID: TC-P4A-ASG-03  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/22/09 00:02  
 Analyst: RY

Date Collected: 03/16/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.489	ND	2.66		2.444
1,1,2,2-Tetrachloroethane	ND	0.489	ND	3.35		2.444
1,1,2-Trichloroethane	ND	0.489	ND	2.66		2.444
1,1-Dichloroethane	ND	0.489	ND	1.98		2.444
1,1-Dichloroethene	ND	0.489	ND	1.94		2.444
1,2,4-Trichlorobenzene	ND	0.489	ND	3.62		2.444
1,2,4-Trimethylbenzene	1.07	0.489	5.28	2.40		2.444
1,2-Dibromoethane	ND	0.489	ND	3.75		2.444
1,2-Dichlorobenzene	ND	0.489	ND	2.94		2.444
1,2-Dichloroethane	ND	0.489	ND	1.98		2.444
1,2-Dichloropropane	ND	0.489	ND	2.26		2.444
1,3,5-Trimethylbenzene	ND	0.489	ND	2.40		2.444
1,3-Butadiene	ND	0.489	ND	1.08		2.444
1,3-Dichlorobenzene	ND	0.489	ND	2.94		2.444
1,4-Dichlorobenzene	3.23	0.489	19.4	2.94		2.444
1,4-Dioxane	ND	0.489	ND	1.76		2.444
2,2,4-Trimethylpentane	ND	0.489	ND	2.28		2.444
2-Butanone	10.2	0.489	30.1	1.44		2.444
2-Hexanone	1.54	0.489	6.32	2.00		2.444
3-Chloropropene	ND	0.489	ND	1.53		2.444
4-Ethyltoluene	ND	0.489	ND	2.40		2.444
Acetone	228	1.22	542	2.90		2.444
Benzene	0.731	0.489	2.33	1.56		2.444
Benzyl chloride	ND	0.489	ND	2.53		2.444
Bromodichloromethane	ND	0.489	ND	3.27		2.444



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-23 D  
 Client ID: TC-P4A-ASG-03  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.489	ND	5.05		2.444
Bromomethane	ND	0.489	ND	1.90		2.444
Carbon disulfide	3.35	0.489	10.4	1.52		2.444
Carbon tetrachloride	ND	0.489	ND	3.07		2.444
Chlorobenzene	ND	0.489	ND	2.25		2.444
Chloroethane	ND	0.489	ND	1.29		2.444
Chloroform	ND	0.489	ND	2.38		2.444
Chloromethane	ND	0.489	ND	1.01		2.444
cis-1,2-Dichloroethene	ND	0.489	ND	1.94		2.444
cis-1,3-Dichloropropene	ND	0.489	ND	2.22		2.444
Cyclohexane	ND	0.489	ND	1.68		2.444
Dibromochloromethane	ND	0.489	ND	4.16		2.444
Dichlorodifluoromethane	ND	0.489	ND	2.42		2.444
Ethanol	6.18	6.11	11.6	11.5		2.444
Ethyl Acetate	ND	1.22	ND	4.40		2.444
Ethylbenzene	1.62	0.489	7.04	2.12		2.444
Freon-113	ND	0.489	ND	3.74		2.444
Freon-114	ND	0.489	ND	3.41		2.444
Hexachlorobutadiene	ND	0.489	ND	5.21		2.444
Isopropanol	ND	1.22	ND	3.00		2.444
Methylene chloride	1.31	1.22	4.54	4.24		2.444
4-Methyl-2-pentanone	1.09	0.489	4.45	2.00		2.444
Methyl tert butyl ether	ND	0.489	ND	1.76		2.444
p/m-Xylene	5.36	0.978	23.3	4.24		2.444
o-Xylene	1.94	0.489	8.43	2.12		2.444
Heptane	1.46	0.489	5.98	2.00		2.444
n-Hexane	0.866	0.489	3.05	1.72		2.444
Propylene	7.02	2.44	12.1	4.20		2.444



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-23 D  
 Client ID: TC-P4A-ASG-03  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.489	ND	2.08		2.444
Tetrachloroethene	0.894	0.489	6.06	3.31		2.444
Tetrahydrofuran	ND	0.489	ND	1.44		2.444
Toluene	6.64	0.489	25.0	1.84		2.444
trans-1,2-Dichloroethene	ND	0.489	ND	1.94		2.444
trans-1,3-Dichloropropene	ND	0.489	ND	2.22		2.444
Trichloroethene	ND	0.489	ND	2.62		2.444
Trichlorofluoromethane	ND	0.489	ND	2.74		2.444
Vinyl acetate	ND	0.489	ND	1.72		2.444
Vinyl bromide	ND	0.489	ND	2.14		2.444
Vinyl chloride	ND	0.489	ND	1.25		2.444



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-23 D  
 Client ID: TC-P4A-ASG-03  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/22/09 00:02  
 Analyst: RY

Date Collected: 03/16/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.049	ND	0.307		2.444
Trichloroethene	ND	0.049	ND	0.262		2.444
Vinyl chloride	ND	0.049	ND	0.125		2.444



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-24 D  
 Client ID: TC-P4A-ASG-04  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/22/09 00:38  
 Analyst: RY

Date Collected: 03/16/09 18:35  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	2.40	ND	13.1		12.02
1,1,2,2-Tetrachloroethane	ND	2.40	ND	16.5		12.02
1,1,2-Trichloroethane	ND	2.40	ND	13.1		12.02
1,1-Dichloroethane	ND	2.40	ND	9.72		12.02
1,1-Dichloroethene	ND	2.40	ND	9.52		12.02
1,2,4-Trichlorobenzene	ND	2.40	ND	17.8		12.02
1,2,4-Trimethylbenzene	ND	2.40	ND	11.8		12.02
1,2-Dibromoethane	ND	2.40	ND	18.4		12.02
1,2-Dichlorobenzene	ND	2.40	ND	14.4		12.02
1,2-Dichloroethane	ND	2.40	ND	9.72		12.02
1,2-Dichloropropane	ND	2.40	ND	11.1		12.02
1,3,5-Trimethylbenzene	ND	2.40	ND	11.8		12.02
1,3-Butadiene	ND	2.40	ND	5.31		12.02
1,3-Dichlorobenzene	ND	2.40	ND	14.4		12.02
1,4-Dichlorobenzene	3.74	2.40	22.4	14.4		12.02
1,4-Dioxane	ND	2.40	ND	8.66		12.02
2,2,4-Trimethylpentane	ND	2.40	ND	11.2		12.02
2-Butanone	26.4	2.40	77.7	7.08		12.02
2-Hexanone	3.04	2.40	12.4	9.84		12.02
3-Chloropropene	ND	2.40	ND	7.52		12.02
4-Ethyltoluene	ND	2.40	ND	11.8		12.02
Acetone	832	6.01	1980	14.3		12.02
Benzene	4.49	2.40	14.3	7.67		12.02
Benzyl chloride	ND	2.40	ND	12.4		12.02
Bromodichloromethane	ND	2.40	ND	16.1		12.02



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-24 D  
 Client ID: TC-P4A-ASG-04  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:35  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	2.40	ND	24.8		12.02
Bromomethane	ND	2.40	ND	9.33		12.02
Carbon disulfide	7.68	2.40	23.9	7.48		12.02
Carbon tetrachloride	ND	2.40	ND	15.1		12.02
Chlorobenzene	ND	2.40	ND	11.0		12.02
Chloroethane	ND	2.40	ND	6.34		12.02
Chloroform	ND	2.40	ND	11.7		12.02
Chloromethane	ND	2.40	ND	4.96		12.02
cis-1,2-Dichloroethene	ND	2.40	ND	9.52		12.02
cis-1,3-Dichloropropene	ND	2.40	ND	10.9		12.02
Cyclohexane	ND	2.40	ND	8.27		12.02
Dibromochloromethane	ND	2.40	ND	20.5		12.02
Dichlorodifluoromethane	ND	2.40	ND	11.9		12.02
Ethanol	ND	30.0	ND	56.6		12.02
Ethyl Acetate	ND	6.01	ND	21.6		12.02
Ethylbenzene	ND	2.40	ND	10.4		12.02
Freon-113	ND	2.40	ND	18.4		12.02
Freon-114	ND	2.40	ND	16.8		12.02
Hexachlorobutadiene	ND	2.40	ND	25.6		12.02
Isopropanol	ND	6.01	ND	14.8		12.02
Methylene chloride	ND	6.01	ND	20.8		12.02
4-Methyl-2-pentanone	ND	2.40	ND	9.84		12.02
Methyl tert butyl ether	ND	2.40	ND	8.66		12.02
p/m-Xylene	5.51	4.81	23.9	20.9		12.02
o-Xylene	ND	2.40	ND	10.4		12.02
Heptane	2.75	2.40	11.2	9.84		12.02
n-Hexane	ND	2.40	ND	8.47		12.02
Propylene	23.7	12.0	40.8	20.7		12.02



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-24 D  
 Client ID: TC-P4A-ASG-04  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:35  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	2.40	ND	10.2		12.02
Tetrachloroethene	ND	2.40	ND	16.3		12.02
Tetrahydrofuran	ND	2.40	ND	7.08		12.02
Toluene	338	2.40	1270	9.05		12.02
trans-1,2-Dichloroethene	ND	2.40	ND	9.52		12.02
trans-1,3-Dichloropropene	ND	2.40	ND	10.9		12.02
Trichloroethene	ND	2.40	ND	12.9		12.02
Trichlorofluoromethane	ND	2.40	ND	13.5		12.02
Vinyl acetate	ND	2.40	ND	8.46		12.02
Vinyl bromide	ND	2.40	ND	10.5		12.02
Vinyl chloride	ND	2.40	ND	6.14		12.02





**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-24 D  
**Client ID:** TC-P4A-ASG-04  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/22/09 00:38  
**Analyst:** RY

**Date Collected:** 03/16/09 18:35  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.240	ND	1.51		12.02
Trichloroethene	ND	0.240	ND	1.29		12.02
Vinyl chloride	ND	0.240	ND	0.614		12.02



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-25  
 Client ID: TC-P4A-OA-02  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 01:46  
 Analyst: RY

Date Collected: 03/16/09 18:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.388	0.200	1.14	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	2.32	0.500	5.52	1.19		1
Benzene	0.274	0.200	0.875	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-25  
 Client ID: TC-P4A-OA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.526	0.200	1.08	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.444	0.200	2.19	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-25  
 Client ID: TC-P4A-OA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.234	0.200	1.31	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



**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-25  
**Client ID:** TC-P4A-OA-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 01:46  
**Analyst:** RY

**Date Collected:** 03/16/09 18:50  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.091	0.020	0.569	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-26  
 Client ID: TC-DUP-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 02:23  
 Analyst: RY

Date Collected: 03/16/09 07:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.356	0.200	1.05	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	3.42	0.500	8.11	1.19		1
Benzene	0.269	0.200	0.860	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-26

Date Collected: 03/16/09 07:45

Client ID: TC-DUP-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.500	0.200	1.03	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.465	0.200	2.30	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-26

Date Collected: 03/16/09 07:45

Client ID: TC-DUP-01

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.223	0.200	0.840	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.229	0.200	1.28	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





**Project Name:** TECH CITY**Lab Number:** L0903165**Project Number:** 0096812**Report Date:** 03/27/09**SAMPLE RESULTS**

**Lab ID:** L0903165-26  
**Client ID:** TC-DUP-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 02:23  
**Analyst:** RY

**Date Collected:** 03/16/09 07:45  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.092	0.020	0.578	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/20/09 13:48

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Batch:						
Carbon tetrachloride	ND	0.020	ND	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/20/09 14:25

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Ba						
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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/20/09 14:25

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Ba						
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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/20/09 14:25

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Ba						
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		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

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/26/09 14:41

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 22 Batch: WG356482-10						
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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/26/09 14:41

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 22 Batch: WG356482-10						
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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/26/09 14:41

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 22 Batch: WG356482-10						
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		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



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/21/09 12:59

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch:						
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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/21/09 12:59

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch:						
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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/21/09 12:59

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch:						
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72		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

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/23/09 19:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 16 Batch: WG356482-7						
Dichlorodifluoromethane	ND	0.200	ND	0.988		1
Toluene	ND	0.200	ND	0.753		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/21/09 12:59

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03,05,07,10,12,14,16,18,21-24 Batch: WG35						
Carbon tetrachloride	ND	0.020	ND	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Batch: WG356276-2					
Carbon tetrachloride	101	-	70-130	-	
Trichloroethene	92	-	70-130	-	
Vinyl chloride	95	-	70-130	-	

Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Batch: WG356277-2					
1,1,1-Trichloroethane	110	-	70-130	-	
1,1,2,2-Tetrachloroethane	110	-	70-130	-	
1,1,2-Trichloroethane	101	-	70-130	-	
1,1-Dichloroethane	99	-	70-130	-	
1,1-Dichloroethene	96	-	70-130	-	
1,2,4-Trichlorobenzene	105	-	70-130	-	
1,2,4-Trimethylbenzene	108	-	70-130	-	
1,2-Dibromoethane	94	-	70-130	-	
1,2-Dichlorobenzene	111	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Batch: WG356277-2					
1,2-Dichloroethane	100	-	70-130	-	
1,2-Dichloropropane	99	-	70-130	-	
1,3,5-Trimethylbenzene	105	-	70-130	-	
1,3-Butadiene	89	-	70-130	-	
1,3-Dichlorobenzene	106	-	70-130	-	
1,4-Dichlorobenzene	108	-	70-130	-	
1,4-Dioxane	116	-	70-130	-	
2,2,4-Trimethylpentane	104	-	70-130	-	
2-Butanone	111	-	70-130	-	
2-Hexanone	118	-	70-130	-	
3-Chloropropene	88	-	70-130	-	
4-Ethyltoluene	108	-	70-130	-	
Acetone	100	-	70-130	-	
Benzene	92	-	70-130	-	
Benzyl chloride	102	-	70-130	-	
Bromodichloromethane	104	-	70-130	-	
Bromoform	108	-	70-130	-	
Bromomethane	79	-	70-130	-	
Carbon disulfide	89	-	70-130	-	
Carbon tetrachloride	116	-	70-130	-	
Chlorobenzene	102	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0903165

Report Date: 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Batch: WG356277-2					
Chloroethane	93	-	70-130	-	
Chloroform	102	-	70-130	-	
Chloromethane	95	-	70-130	-	
cis-1,2-Dichloroethene	99	-	70-130	-	
cis-1,3-Dichloropropene	85	-	70-130	-	
Cyclohexane	100	-	70-130	-	
Dibromochloromethane	107	-	70-130	-	
Dichlorodifluoromethane	96	-	70-130	-	
Ethyl Alcohol	98	-	70-130	-	
Ethyl Acetate	111	-	70-130	-	
Ethylbenzene	109	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	96	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	93	-	70-130	-	
Hexachlorobutadiene	123	-	70-130	-	
iso-Propyl Alcohol	99	-	70-130	-	
Methylene chloride	91	-	70-130	-	
4-Methyl-2-pentanone	115	-	70-130	-	
Methyl tert butyl ether	114	-	70-130	-	
p/m-Xylene	113	-	70-130	-	
o-Xylene	115	-	70-130	-	
Heptane	102	-	70-130	-	



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 Batch: WG356277-2					
n-Hexane	105	-	70-130	-	
Propylene	84	-	70-130	-	
Styrene	105	-	70-130	-	
Tetrachloroethene	110	-	70-130	-	
Tetrahydrofuran	115	-	70-130	-	
Toluene	104	-	70-130	-	
trans-1,2-Dichloroethene	91	-	70-130	-	
trans-1,3-Dichloropropene	76	-	70-130	-	
Trichloroethene	106	-	70-130	-	
Trichlorofluoromethane	105	-	70-130	-	
Vinyl acetate	111	-	70-130	-	
Vinyl bromide	90	-	70-130	-	
Vinyl chloride	90	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0903165

Report Date: 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch: WG356482-2					
1,1,1-Trichloroethane	106	-	70-130	-	
1,1,2,2-Tetrachloroethane	112	-	70-130	-	
1,1,2-Trichloroethane	104	-	70-130	-	
1,1-Dichloroethane	94	-	70-130	-	
1,1-Dichloroethene	98	-	70-130	-	
1,2,4-Trichlorobenzene	125	-	70-130	-	
1,2,4-Trimethylbenzene	114	-	70-130	-	
1,2-Dibromoethane	95	-	70-130	-	
1,2-Dichlorobenzene	116	-	70-130	-	
1,2-Dichloroethane	106	-	70-130	-	
1,2-Dichloropropane	102	-	70-130	-	
1,3,5-Trimethylbenzene	110	-	70-130	-	
1,3-Butadiene	89	-	70-130	-	
1,3-Dichlorobenzene	115	-	70-130	-	
1,4-Dichlorobenzene	114	-	70-130	-	
1,4-Dioxane	113	-	70-130	-	
2,2,4-Trimethylpentane	100	-	70-130	-	
2-Butanone	116	-	70-130	-	
2-Hexanone	116	-	70-130	-	
3-Chloropropene	87	-	70-130	-	
4-Ethyltoluene	116	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0903165

Report Date: 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch: WG356482-2					
Acetone	104	-	70-130	-	
Benzene	91	-	70-130	-	
Benzyl chloride	107	-	70-130	-	
Bromodichloromethane	101	-	70-130	-	
Bromoform	106	-	70-130	-	
Bromomethane	79	-	70-130	-	
Carbon disulfide	91	-	70-130	-	
Carbon tetrachloride	110	-	70-130	-	
Chlorobenzene	101	-	70-130	-	
Chloroethane	93	-	70-130	-	
Chloroform	101	-	70-130	-	
Chloromethane	94	-	70-130	-	
cis-1,2-Dichloroethene	98	-	70-130	-	
cis-1,3-Dichloropropene	86	-	70-130	-	
Cyclohexane	98	-	70-130	-	
Dibromochloromethane	103	-	70-130	-	
Dichlorodifluoromethane	99	-	70-130	-	
Ethyl Alcohol	101	-	70-130	-	
Ethyl Acetate	126	-	70-130	-	
Ethylbenzene	111	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	98	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch: WG356482-2					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	94	-	70-130	-	
Hexachlorobutadiene	136	-	70-130	-	
iso-Propyl Alcohol	101	-	70-130	-	
Methylene chloride	95	-	70-130	-	
4-Methyl-2-pentanone	114	-	70-130	-	
Methyl tert butyl ether	115	-	70-130	-	
p/m-Xylene	116	-	70-130	-	
o-Xylene	118	-	70-130	-	
Heptane	96	-	70-130	-	
n-Hexane	100	-	70-130	-	
Propylene	88	-	70-130	-	
Styrene	109	-	70-130	-	
Tetrachloroethene	106	-	70-130	-	
Tetrahydrofuran	121	-	70-130	-	
Toluene	104	-	70-130	-	
trans-1,2-Dichloroethene	91	-	70-130	-	
trans-1,3-Dichloropropene	78	-	70-130	-	
Trichloroethene	103	-	70-130	-	
Trichlorofluoromethane	106	-	70-130	-	
Vinyl acetate	116	-	70-130	-	
Vinyl bromide	89	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch: WG356482-2					
Vinyl chloride	92	-	70-130	-	
Naphthalene	92	-	70-130	-	
Propane	78	-	70-130	-	
Acrylonitrile	104	-	70-130	-	
Acrolein	98	-	70-130	-	
1,1,1,2-Tetrachloroethane	102	-	70-130	-	
Isopropylbenzene	117	-	70-130	-	
1,2,3-Trichloropropane	111	-	70-130	-	
Acetonitrile	101	-	70-130	-	
Bromobenzene	107	-	70-130	-	
Chlorodifluoromethane	83	-	70-130	-	
Dichlorofluoromethane	85	-	70-130	-	
Dibromomethane	93	-	70-130	-	
Pentane	92	-	70-130	-	
Octane	92	-	70-130	-	
Tertiary-Amyl Methyl Ether	124	-	70-130	-	
o-Chlorotoluene	106	-	70-130	-	
p-Chlorotoluene	102	-	70-130	-	
2,2-Dichloropropane	90	-	70-130	-	
1,1-Dichloropropene	99	-	70-130	-	
Isopropyl Ether	124	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21,23-24 Batch: WG356482-2					
Ethyl-Tert-Butyl-Ether	114	-	70-130	-	
1,2,3-Trichlorobenzene	112	-	70-130	-	
Ethyl ether	106	-	70-130	-	
n-Butylbenzene	123	-	70-130	-	
sec-Butylbenzene	113	-	70-130	-	
tert-Butylbenzene	112	-	70-130	-	
1,2-Dibromo-3-chloropropane	127	-	70-130	-	
p-Isopropyltoluene	108	-	70-130	-	
n-Propylbenzene	110	-	70-130	-	
1,3-Dichloropropane	101	-	70-130	-	
Methanol	86	-	70-130	-	
Butane	84	-	70-130	-	
Nonane (C9)	92	-	70-130	-	
Decane (C10)	108	-	70-130	-	
Undecane	123	-	70-130	-	
Dodecane (C12)	117	-	70-130	-	
Butyl Acetate	107	-	70-130	-	
2,4,4-Trimethyl-2-Pentene	104	-	70-130	-	
2,4,4-Trimethyl-1-Pentene	93	-	70-130	-	
tert-Butyl Alcohol	96	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0903165

Report Date: 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 16 Batch: WG356482-6					
Dichlorodifluoromethane	104	-	70-130	-	
Toluene	126	-	70-130	-	

Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 22 Batch: WG356482-9					
1,1,1-Trichloroethane	118	-	70-130	-	
1,1,2,2-Tetrachloroethane	116	-	70-130	-	
1,1,2-Trichloroethane	119	-	70-130	-	
1,1-Dichloroethane	100	-	70-130	-	
1,1-Dichloroethene	92	-	70-130	-	
1,2,4-Trichlorobenzene	144	-	70-130	-	
1,2,4-Trimethylbenzene	124	-	70-130	-	
1,2-Dibromoethane	99	-	70-130	-	
1,2-Dichlorobenzene	117	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 22 Batch: WG356482-9					
1,2-Dichloroethane	127	-	70-130	-	
1,2-Dichloropropane	120	-	70-130	-	
1,3,5-Trimethylbenzene	122	-	70-130	-	
1,3-Butadiene	94	-	70-130	-	
1,3-Dichlorobenzene	116	-	70-130	-	
1,4-Dichlorobenzene	117	-	70-130	-	
1,4-Dioxane	125	-	70-130	-	
2,2,4-Trimethylpentane	115	-	70-130	-	
2-Butanone	126	-	70-130	-	
2-Hexanone	123	-	70-130	-	
3-Chloropropene	98	-	70-130	-	
4-Ethyltoluene	119	-	70-130	-	
Acetone	106	-	70-130	-	
Benzene	112	-	70-130	-	
Benzyl chloride	118	-	70-130	-	
Bromodichloromethane	113	-	70-130	-	
Bromoform	107	-	70-130	-	
Bromomethane	76	-	70-130	-	
Carbon disulfide	78	-	70-130	-	
Carbon tetrachloride	113	-	70-130	-	
Chlorobenzene	106	-	70-130	-	



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 22 Batch: WG356482-9					
Chloroethane	94	-	70-130	-	
Chloroform	103	-	70-130	-	
Chloromethane	97	-	70-130	-	
cis-1,2-Dichloroethene	104	-	70-130	-	
cis-1,3-Dichloropropene	105	-	70-130	-	
Cyclohexane	109	-	70-130	-	
Dibromochloromethane	102	-	70-130	-	
Dichlorodifluoromethane	99	-	70-130	-	
Ethyl Alcohol	111	-	70-130	-	
Ethyl Acetate	129	-	70-130	-	
Ethylbenzene	131	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	89	-	70-130	-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	90	-	70-130	-	
Hexachlorobutadiene	171	-	70-130	-	
iso-Propyl Alcohol	103	-	70-130	-	
Methylene chloride	91	-	70-130	-	
4-Methyl-2-pentanone	138	-	70-130	-	
Methyl tert butyl ether	118	-	70-130	-	
p/m-Xylene	126	-	70-130	-	
o-Xylene	123	-	70-130	-	
Heptane	119	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0903165

Report Date: 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 22 Batch: WG356482-9					
n-Hexane	97	-	70-130	-	
Propylene	108	-	70-130	-	
Styrene	113	-	70-130	-	
Tetrachloroethene	99	-	70-130	-	
Tetrahydrofuran	137	-	70-130	-	
Toluene	110	-	70-130	-	
trans-1,2-Dichloroethene	96	-	70-130	-	
trans-1,3-Dichloropropene	94	-	70-130	-	
Trichloroethene	102	-	70-130	-	
Trichlorofluoromethane	104	-	70-130	-	
Vinyl acetate	129	-	70-130	-	
Vinyl bromide	78	-	70-130	-	
Vinyl chloride	92	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** TECH CITY

**Project Number:** 0096812

**Lab Number:** L0903165

**Report Date:** 03/27/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21-24 Batch: WG356485-2					
Carbon tetrachloride	98	-	70-130	-	
Trichloroethene	89	-	70-130	-	
Vinyl chloride	91	-	70-130	-	

## Lab Duplicate Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0903165

Report Date: 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 QC Batch ID: WG356276-4 QC Sample: L0903165-02 Client ID: TC-P1-IA-01					
Carbon tetrachloride	0.090	0.088	ppbV	2	25
Trichloroethene	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 QC Batch ID: WG356277-4 QC					
Sample: L0903165-02 Client ID: TC-P1-IA-01					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-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	0.520	0.486	ppbV	7	25
2-Hexanone	ND	ND	ppbV	NC	25

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 QC Batch ID: WG356277-4 QC					
Sample: L0903165-02 Client ID: TC-P1-IA-01					
3-Chloropropene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	5.86	5.70	ppbV	3	25
Benzene	0.356	0.360	ppbV	1	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	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	0.535	0.535	ppbV	0	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.547	0.470	ppbV	15	25

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 QC Batch ID: WG356277-4 QC					
Sample: L0903165-02 Client ID: TC-P1-IA-01					
Ethanol	49.0	45.6	ppbV	7	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Isopropanol	5.96	5.35	ppbV	11	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
Propylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
Toluene	0.214	0.259	ppbV	19	25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0903165

Report Date: 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 02,04,06,08-09,11,13,15,17,19-20,25-26 QC Batch ID: WG356277-4 QC					
Sample: L0903165-02 Client ID: TC-P1-IA-01					
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	0.246	0.216	ppbV	13	25
Vinyl acetate	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25



## Lab Duplicate Analysis

### Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21-24 QC Batch ID: WG356482-4 QC Sample: L0903165-10 Client ID: TC-P1-ASG-01					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	1.77	1.89	ppbV	7	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	0.771	0.775	ppbV	1	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	2.34	2.62	ppbV	11	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
2-Butanone	7.04	6.87	ppbV	2	25
2-Hexanone	0.784	0.923	ppbV	16	25

## Lab Duplicate Analysis

### Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21-24 QC Batch ID: WG356482-4 QC Sample: L0903165-10 Client ID: TC-P1-ASG-01					
3-Chloropropene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	303E	264	ppbV	14	25
Benzene	0.604	0.574	ppbV	5	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	5.08	5.11	ppbV	1	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	0.942	0.933	ppbV	1	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.579	0.543	ppbV	6	25

## Lab Duplicate Analysis

### Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21-24 QC Batch ID: WG356482-4 QC Sample: L0903165-10 Client ID: TC-P1-ASG-01					
Ethanol	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Ethylbenzene	2.13	1.76	ppbV	19	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Isopropanol	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	8.31	6.87	ppbV	19	25
o-Xylene	2.86	2.42	ppbV	17	25
Heptane	0.845	0.798	ppbV	6	25
n-Hexane	ND	ND	ppbV	NC	25
Propylene	4.50	5.03	ppbV	11	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	0.783	0.699	ppbV	11	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
Toluene	5.05	4.34	ppbV	15	25

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21-24 QC Batch ID: WG356482-4 QC Sample: L0903165-10 Client ID: TC-P1-ASG-01					
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21-24 QC Batch ID: WG356482-4 QC Sample: L0903165-10 Client ID: TC-P1-ASG-01					
Acetone	241	270	ppbV	11	25
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05,07,10,12,14,16,18,21-24 QC Batch ID: WG356485-4 QC Sample: L0903165-10 Client ID: TC-P1-ASG-01					
Carbon tetrachloride	ND	ND	ppbV	NC	25
Trichloroethene	0.053	0.053	ppbV	0	25
Vinyl chloride	ND	ND	ppbV	NC	25

Project Name: TECH CITY

03270916:40

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## 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
L0903165-01	TC-P1-SS-01	0394	#16 SV		-	-	1.9	1.7	11
L0903165-01	TC-P1-SS-01	658	1.0L Can	I0901705	-29.7	-4.6	-	-	-
L0903165-02	TC-P1-IA-01	0337	#30 SV		-	-	11.1	11.5	4
L0903165-02	TC-P1-IA-01	696	6.0L Can	I0901700	-29.7	-7.1	-	-	-
L0903165-03	TC-P1-SS-02	0383	#90 SV		-	-	2.0	2.2	10
L0903165-03	TC-P1-SS-02	883	1.0L Can	I0901705	-29.7	-1.0	-	-	-
L0903165-04	TC-P1-IA-02	0299	#30 SV		-	-	10.7	10.8	1
L0903165-04	TC-P1-IA-02	1537	6.0L Can	I0900837	-29.8	-5.4	-	-	-
L0903165-05	TC-P1-SS-03	0031	#90 SV		-	-	1.9	2.1	10
L0903165-05	TC-P1-SS-03	569	1.0L Can	I0901705	-29.7	-3.7	-	-	-
L0903165-06	TC-P1-IA-03	0213	#16 AMB		-	-	10.7	10.9	2
L0903165-06	TC-P1-IA-03	997	6.0L Can	I0901700	-29.8	-4.1	-	-	-
L0903165-07	TC-P1-SS-04	0019	#16 SV		-	-	1.8	2.1	15
L0903165-07	TC-P1-SS-04	885	1.0L Can	I0901705	-29.7	-4.8	-	-	-
L0903165-08	TC-P1-IA-04	0336	#30 SV		-	-	10.7	11.0	3
L0903165-08	TC-P1-IA-04	747	6.0L Can	I0901700	-29.5	-1.6	-	-	-
L0903165-09	TC-P1-OA-01	0350	#30 AMB		-	-	11.1	11.2	1



Project Name: TECH CITY

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Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

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
L0903165-09	TC-P1-OA-01	1621	6.0L Can	I0901700	-29.8	-0.5	-	-	-
L0903165-10	TC-P1-ASG-01	0256	#16 SV		-	-	1.8	1.7	6
L0903165-10	TC-P1-ASG-01	749	1.0L Can	I0901705	-29.7	0.1	-	-	-
L0903165-11	TC-P1-OA-02	0250	#30 SV		-	-	10.7	11.2	5
L0903165-11	TC-P1-OA-02	1039	6.0L Can	I0901700	-29.8	-3.7	-	-	-
L0903165-12	TC-P4A-SS-01	0076	#16 SV		-	-	1.9	1.9	0
L0903165-12	TC-P4A-SS-01	684	1.0L Can	I0901705	-29.1	-1.9	-	-	-
L0903165-13	TC-P4A-IA-01	0249	#30 SV		-	-	10.9	11.0	1
L0903165-13	TC-P4A-IA-01	619	6.0L Can	I0901700	-29.8	-2.4	-	-	-
L0903165-14	TC-P4A-SS-02	0416	#16 SV		-	-	1.7	0	200
L0903165-14	TC-P4A-SS-02	846	1.0L Can	I0901705	-29.3	-4.8	-	-	-
L0903165-15	TC-P4A-IA-02	0248	#16 AMB		-	-	10.7	11.1	4
L0903165-15	TC-P4A-IA-02	738	6.0L Can	I0900837	-29.8	0.6	-	-	-
L0903165-16	TC-P4A-SS-03	0298	#16 SV		-	-	1.9	2.1	10
L0903165-16	TC-P4A-SS-03	877	1.0L Can	I0901705	-29.6	0.4	-	-	-
L0903165-17	TC-P4A-IA-03	0013	#30 SV		-	-	10.4	11.0	6
L0903165-17	TC-P4A-IA-03	928	6.0L Can	I0901700	-29.8	-1.3	-	-	-



Project Name: TECH CITY

03270916:40

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### 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
L0903165-18	TC-P4A-SS-04	0131	#16 SV		-	-	1.9	1.5	24
L0903165-18	TC-P4A-SS-04	1495	1.0L Can	I0816973	-29.7	-0.9	-	-	-
L0903165-19	TC-P4A-IA-04	0333	#30 SV		-	-	10.7	10.7	0
L0903165-19	TC-P4A-IA-04	897	6.0L Can	I0901700	-29.8	-4.5	-	-	-
L0903165-20	TC-P4A-OA-01	0018	#30 SV		-	-	10.5	10.8	3
L0903165-20	TC-P4A-OA-01	1564	6.0L Can	I0901700	-29.7	2.2	-	-	-
L0903165-21	TC-P4A-ASG-01	0130	#16 SV		-	-	1.9	2.0	5
L0903165-21	TC-P4A-ASG-01	890	1.0L Can	I0901705	-29.7	-3.3	-	-	-
L0903165-22	TC-P4A-ASG-02	0272	#16 AMB		-	-	1.7	1.9	11
L0903165-22	TC-P4A-ASG-02	849	1.0L Can	I0901705	-29.7	-3.7	-	-	-
L0903165-23	TC-P4A-ASG-03	0175	#16 SV		-	-	1.9	2.2	15
L0903165-23	TC-P4A-ASG-03	733	1.0L Can	I0901705	-29.7	-3.3	-	-	-
L0903165-24	TC-P4A-ASG-04	0093	#16 SV		-	-	1.6	1.6	0
L0903165-24	TC-P4A-ASG-04	817	1.0L Can	I0901705	-29.2	-3.7	-	-	-
L0903165-25	TC-P4A-OA-02	0022	#30 SV		-	-	11.1	11.2	1
L0903165-25	TC-P4A-OA-02	1538	6.0L Can	I0900837	-29.8	-3.4	-	-	-
L0903165-26	TC-DUP-01	981	6.0L Can	I0900837	-29.1	-2.4	-	-	-



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

## Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0903165-01A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-02A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-03A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-04A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30)
L0903165-05A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-06A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30)
L0903165-07A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-08A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30)
L0903165-09A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30)
L0903165-10A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-11A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30)
L0903165-12A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-13A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30)
L0903165-14A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-15A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30)
L0903165-16A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-17A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-18A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-19A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-20A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-21A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-22A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-23A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-24A	Canister - 1 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-25A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-26A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0903165-27A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	CLEAN-FEE()
L0903165-28A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	CLEAN-FEE()
L0903165-29A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	CLEAN-FEE()
L0903165-30A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	CLEAN-FEE()

\*Hold days indicated by values in parentheses





**Project Name:** TECH CITY**Project Number:** 0096812**Lab Number:** L0903165**Report Date:** 03/27/09**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis</b>
L0903165-31A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	CLEAN-FEE()
L0903165-32A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	CLEAN-FEE()
L0903165-33A	Canister - 6 Liter	N/A	NA		NA	Present/Intact	CLEAN-FEE()

\*Hold days indicated by values in parentheses

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

## 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.
- LCS D** - 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.
- MS D** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND** - Not detected at the reported detection limit for the sample.
- NI** - Not Ignitable.
- RDL** - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- \*** - The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- N** - The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

## 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 February 18, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### **Connecticut Department of Public Health** Certificate/Lab ID: PH-0141.

*Wastewater/Non-Potable Water* (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, 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, 4500NH3-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**

# AIR ANALYSIS

**ALPHA ANALYTICAL**  
**CHAIN OF CUSTODY**

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

**Client Information**

Client: ERM  
 Address: 5788 Cinnabar Road  
Deerfield, NY 13214

Phone: (315) 445-2554

Fax: (315) 445-2543

Email: Kris.Perrin@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Detection limit: TCF, CARBONATE, Vinyl Chloride = 0.25 ug/m<sup>3</sup>  
OTHERS = 1 ug/m<sup>3</sup> for ALL SAMPLES (PYS 1-3)

**Project Information**

Project Name: Tek City

Project Location: Kingston, NY

Project #: 0098518 0016812

Project Manager: Kris Perrin

ALPHA Quote #:

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved)  
 10 DAYS

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

**Date Rec'd in Lab:**

**Report Information - Data Deliverables**

FAX  
 DADEx

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 #: 20903165**

**Billing Information**

Same as Client info

PO #:

**Regulatory Requirements/Report Limits**

State/Fed \_\_\_\_\_ Program \_\_\_\_\_

Criteria \_\_\_\_\_

**ANALYSIS**

- TO-14A by TO-15
- TO-15
- TO-15 SIM
- APH
- FIXED GASES
- TO-13A
- TO-4 / TO-10

**All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID-Flow Controller	Sample Comments (i.e. PID)	
		Date	Start Time	End Time	Initial Vacuum							Final Vacuum
L0903165-1	TC-P1-SS-01	3/13/09	0820	1430	-29"	-3.5"	SV	KL	1L	658	0394	X
2	TC-P1-IA-01	3/13/09	0820	1530	-30"	-6"	AA	KL	6L	696	0337	X
3	TC-P1-SS-02	3/13/09	0805	1350	-30"	-4"	SV	KL	1L	883	3613	X
4	TC-P1-IA-02	3/13/09	0805	1515	-30"	-6"	AA	KL	6L	1537	0299	X
5	TC-P1-SS-03	3/13/09	0905	1500	-30"	-5"	SV	KL	1L	509	0031	X
6	TC-P1-IA-03	3/13/09	0905	1635	-30"	-5"	AA	KL	6L	997	0213	X
7	TC-P1-SS-04	3/13/09	1005	1645	-30"	-5"	SV	KL	1L	885	0019	X
8	TC-P1-IA-04	3/13/09	1105	1920	-30"	-1.5"	AA	KL	6L	717	0336	X
9	TC-P1-0A-01	3/13/09	0915	1625	-30"	-4"	AA	KL	6L	1621	0350	X
10	TC-P1-ASX-01	3/16/09	1100	1815	-30"	-5"	AA	KL	1L	719	0256	X

\*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: \_\_\_\_\_

Kris Perrin  
3/17/09 13:05

3/17/09 09:05  
3/17/09 13:05

Kris Perrin  
3/17/09 13:05

3/17/09 09:05  
3/17/09 13:10  
3/17/09 13:25

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.

# AIR ANALYSIS

**ALPHA ANALYTICAL**  
**CHAIN OF CUSTODY**  
 320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

**Project Information**

Project Name: TECH COY  
 Project Location: KATYAN  
 Project #: 006545 0090212  
 Project Manager: \_\_\_\_\_  
 ALPHA Quote #: \_\_\_\_\_

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 #: 40903165**  
**Billing Information**  
 Same as Client info  
 PO #: \_\_\_\_\_

**Client Information**

Client: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Regulatory Requirements/Report Limits  
 State/Fed: \_\_\_\_\_ Program: \_\_\_\_\_ Criteria: \_\_\_\_\_

Turn-Around Time  
 Standard 10 DAYS  
 RUSH (only confirmed if pre-approved)  
 Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

These samples have been previously analyzed by Alpha  
 Other Project Specific Requirements/Comments: \_\_\_\_\_

**All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Vacuum						
L0903165-11	TC-A1-0A-02	3/16/09	1100	1845	-30"	AA	KB	6L	1039	0250	X
12	TC-P4A-SS-01	3/13/09	1010	1605	-29"	SV	KB	1L	684	0076	X
13	TC-P4A-IA-01	3/13/09	1010	1650	-30"	AA	KB	6L	619	249	X
14	TC-P4A-SS-02	3/13/09	0945	1445	-25"	SV	KB	1L	876	416	X
15	TC-P4A-IA-02	3/13/09	0945	1745	-30"	AA	KB	6L	738	248	X
16	TC-P4A-SS-03	3/13/09	1040	1600	-30"	SV	KB	1L	877	258	X
17	TC-P4A-IA-03	3/13/09	1040	1730	-30"	AA	KB	6L	928	0213	X
18	TC-P4A-SS-04	3/13/09	0710	1500	-30"	SV	KB	1L	148	0131	X
19	TC-P4A-IA-04	3/13/09	0710	1430	-30"	AA	KB	6L	877	0333	X
20	TC-P4A-0A-01	3/14/09	1025	1900	-30"	AA	KB	6L	1824	0618	X

\*SAMPLE MATRIX CODES  
 AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

Relinquished By: \_\_\_\_\_ Date/Time: 3/17/09 0905  
 Received By: \_\_\_\_\_ Date/Time: 3/17/09 905  
 Relinquished By: [Signature] Date/Time: 3/17/09 1335  
 Received By: [Signature] Date/Time: 3/17/09 1335

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.



**CHAIN OF CUSTODY**

**AIR ANALYSIS**

PAGE 3 OF 3

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

**Client Information**

Client: ERM  
 Address: \_\_\_\_\_  
 Project # : 2008316 009681Z  
 Project Location: Keegan City  
 Project Manager: \_\_\_\_\_  
 ALPHA Quote #: \_\_\_\_\_

Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

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

These samples have been previously analyzed by Alpha  
 Other Project Specific Requirements/Comments: \_\_\_\_\_

**Project Information**

Project Name: TECU CITY  
 Project Location: Keegan City

**Date Rec'd in Lab:**

FAX  
 ADEX  
 Criteria Checker: \_\_\_\_\_

**ALPHA Job #:**

20903165

**Billing Information**

Same as Client info  
 PO #: \_\_\_\_\_

**Regulatory Requirements/Report Limits**

State/Fed \_\_\_\_\_ Program \_\_\_\_\_ Criteria \_\_\_\_\_

Report to: (if different than Project Manager)  
 \_\_\_\_\_

**All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sample's Initials	Can Size	I D Can	I D - Flow Controller	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum						
40903165-21	TC-P4A-ASC-01	3/16/09	1237	1825	-30"	-5"	SV	1L	870	130	X
	22 TC-P4A-ASC-02	3/16/09	1225	1820	-30"	-5"	SV	1L	849	0272	X
	23 TC-P4A-ASC-03	3/16/09	1215	1730	-28"	-4"	SV	1L	733	0175	X
	24 TC-P4A-ASC-04	3/16/09	1140	1835	-26"	-5"	SV	1L	817	0093	X
	25 TC-P4A-0A-02	3/16/09	1145	1850	-30"	-4"	AA	6L	1538	0022	X
	26 TC-DUP-01	3/16/09	1200	0745	-30"	-5"	AA	6L			X

**\*SAMPLE MATRIX CODES**

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

Container Type

Relinquished By: \_\_\_\_\_ Date/Time: 03/17/09 09:05

Received By: \_\_\_\_\_ Date/Time: 3/17/09 9:05

Signature: [Handwritten Signature] Date/Time: 3/17/09 13:35

Signature: [Handwritten Signature] Date/Time: 3/17/09 13:35

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.



**DATA USABILITY SUMMARY REPORT (DUSR)  
TECHCITY PROPERTIES INC.  
KINGSTON, NEW YORK  
VAPOR INTRUSION SAMPLING  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
PROJECT NUMBER 0096812  
ALPHA ANALYTICAL LAB NUMBER L0903165**

***Deliverables:***

The above referenced data package for twenty-five (25) air samples and one (1) blind field duplicate sample contains all the required deliverables as stipulated under the 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B deliverables. The samples were analyzed following “*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition 1997, EPA/625/R-96/010B*”, *Compendium Method TO-15, “Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)”*. The data have been evaluated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region 2 Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 4, October 2006: Validating Volatile Organic Analysis of Ambient Air in canister by Method TO-15, and the reviewer's professional judgment.

This report pertains to the following air samples collected on 13 March 2009 and 16 March 2009:

Sample ID

TC-P1-SS-01	TC-P1-IA-03	TC-P1-OA-02	TC-P4A-SS-03	TC-P4A-ASG-01
TC-P1-IA-01	TC-P1-SS-04	TC-P4A-SS-01	TC-P4A-IA-03	TC-P4A-ASG-02
TC-P1-SS-02	TC-P1-IA-04	TC-P4A-IA-01	TC-P4A-SS-04	TC-P4A-ASG-03
TC-P1-IA-02	TC-P1-OA-01	TC-P4A-SS-02	TC-P4A-IA-04	TC-P4A-ASG-04
TC-P1-SS-03	TC-P1-ASG-01	TC-P4A-IA-02	TC-P4A-OA-01	TC-P4A-OA-02

QC Sample ID

TC-DUP-01 (blind field duplicate of sample TC-P1-OA-02)

The following items/criteria were reviewed:

- Case narrative and deliverable compliance
- Chain-of-Custody (COC)
- Holding times
- Canister Certification/Pressures
- Surrogate compound recoveries, summary and data
- Method blank summary and data
- Laboratory Duplicate Sample recoveries, summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Sample Results (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/reporting limits
- Qualitative and quantitative compound identification

The items listed above were in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- The Chains-of-Custody (COCs) were reviewed for completeness and accuracy. The following were noted:

Selective Ion Monitoring (SIM) analysis was requested and performed on all samples for carbon tetrachloride, trichloroethene, and vinyl chloride to achieve lower reporting limits ( $0.25 \mu\text{g}/\text{m}^3$ ). These compounds were also reported by the laboratory on their Form Is from the standard analysis. Results for these compounds are to be utilized from the SIM analysis.

Samples TC-P1-SS-01, TC-P1-SS-02, TC-P1-SS-03, TC-P1-SS-04, TC-P1-ASG-01, TC-P4A-SS-01, TC-P4A-SS-02, TC-P4A-SS-03, TC-P4A-SS-04, TC-P4A-ASG-01, TC-P4A-ASG-02, TC-P4A-ASG-03, and TC-P4A-ASG-04 were collected into 1 liter canisters. The laboratory was required to add zero gas (nitrogen) due to the low sample volume. This dilution resulted in elevated reporting limits for these samples.

There were no other discrepancies observed with the samples presented on the COC, and all other tests specified on the COC were performed for the designated samples.

- The result for propylene in samples TC-P1-IA-01, TC-P1-IA-02, TC-P1-IA-03, TC-P1-IA-04, TC-P1-OA-01, TC-P1-OA-02, TC-P4A-IA-01, TC-P4A-IA-02, TC-P4A-IA-03, TC-P4A-IA-04, TC-P4A-OA-01, TC-P4A-ASG-03, TC-P4A-OA-02, and TC-DUP-01 is considered estimated due to the co-elution of this compound with a non-target compound as detailed in the laboratory's case narrative. Positive results for propylene in the samples listed have been qualified "J" while non-detects have been qualified "ND J".
- The result for acetone in samples TC-P1-IA-01, TC-P1-IA-02, TC-P1-SS-04, TC-P1-IA-04, TC-P4A-IA-02, TC-P4A-IA-03, TC-P4A-IA-04, TC-P4A-OA-02, and TC-DUP-01 is considered estimated due to the co-elution of this compound with a non-target compound as detailed in the laboratory's case narrative. Positive results for acetone in the samples listed have been qualified "J" while non-detects have been qualified "ND J".
- The presence of isopropyl alcohol (isopropanol) in samples TC-P1-SS-03, TC-P1-SS-04, TC-P1-ASG-01, TC-P4A-SS-01, TC-P4A-SS-02, TC-P4A-SS-03, TC-P4A-SS-04, TC-P4A-ASG-03, and TC-P4A-ASG-04 could not be determined due to an interference with this compound as detailed in the laboratory's case narrative. Results for isopropyl alcohol in the samples listed have been rejected and qualified with an "R".
- The percent recovery (%R) for hexachlorobutadiene was slightly above QC criteria in LCS WG356482-2 (136%; QC limit 70-130%). Results for hexachlorobutadiene in all associated samples may possibly be biased high. No qualification of the sample is required as hexachlorobutadiene was not positively identified in any associated samples.
- The %R for 1,2,4-trichlorobenzene (146%), ethylbenzene (131%), hexachlorobutadiene (171%), 4-methyl-2-pentanone (138%), and tetrahydrofuran (137%) were above QC criteria in LCS WG356482-9 (QC limit 70-130%). This LCS is only associated with sample TC-P4A-ASG-02. Results for these compounds in sample TC-P4A-ASG-02 may possibly be biased high. No

qualification of the sample is required as these compounds were not positively identified in sample TC-P4A-ASG-02.

- The relative percent difference (RPD) for o-xylene was slightly above QC criteria in the laboratory duplicate sample WG356482-4 (26%; QC limit 25%). Results for o-xylene in all associated samples may possibly be biased. Positive results for o-xylene in associated samples have been qualified "J" while non-detects for o-xylene in associated samples have been qualified "ND J".
- Samples TC-P4A-SS-03 (10.66x), TC-P4A-ASG-01 (60.61x), TC-P4A-ASG-02 (97.38x), and TC-P4A-ASG-04 (12.02x) were analyzed at the dilutions listed due to the presence of elevated target compounds. No qualification of the sample data is required, however the data user should be aware of the elevated reporting limits of all target compounds.
- The following table contains samples that required further analysis due to target compounds exceeding the calibration range of the instrument in the initial analysis. The target compounds exceeding calibration range were qualified by the laboratory with an "E" qualifier on the Form Is. The result for these compounds should be utilized from the secondary analysis.

Sample	Compound Requiring Dilution	Dilution Factor
TC-P1-ASG-01	acetone	5.292 x
TC-P4A-SS-03	dichlorodifluoromethane	87.02 x
TC-P4A-SS-04	ethanol	11.13 x
TC-P4A-IA-04	1,4-dioxane	10 x

**Package Summary:**

All data are valid and usable with qualifications as noted in this review.

Signed: \_\_\_\_\_  
Andrew J. Coenen  
ERM QA Officer

Dated: 20 May 2009

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-01 D  
 Client ID: TC-P1-SS-01  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 16:42  
 Analyst: RY

Date Collected: 03/13/09 14:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.501	ND	2.73		2.505
1,1,2,2-Tetrachloroethane	ND	0.501	ND	3.44		2.505
1,1,2-Trichloroethane	ND	0.501	ND	2.73		2.505
1,1-Dichloroethane	ND	0.501	ND	2.03		2.505
1,1-Dichloroethene	ND	0.501	ND	1.98		2.505
1,2,4-Trichlorobenzene	ND	0.501	ND	3.71		2.505
1,2,4-Trimethylbenzene	ND	0.501	ND	2.46		2.505
1,2-Dibromoethane	ND	0.501	ND	3.85		2.505
1,2-Dichlorobenzene	ND	0.501	ND	3.01		2.505
1,2-Dichloroethane	ND	0.501	ND	2.03		2.505
1,2-Dichloropropane	ND	0.501	ND	2.31		2.505
1,3,5-Trimethylbenzene	ND	0.501	ND	2.46		2.505
1,3-Butadiene	ND	0.501	ND	1.11		2.505
1,3-Dichlorobenzene	ND	0.501	ND	3.01		2.505
1,4-Dichlorobenzene	ND	0.501	ND	3.01		2.505
1,4-Dioxane	ND	0.501	ND	1.80		2.505
2,2,4-Trimethylpentane	ND	0.501	ND	2.34		2.505
2-Butanone	3.76	0.501	11.1	1.48		2.505
2-Hexanone	ND	0.501	ND	2.05		2.505
3-Chloropropene	ND	0.501	ND	1.57		2.505
4-Ethyltoluene	ND	0.501	ND	2.46		2.505
Acetone	35.9	1.25	85.2	2.97		2.505
Benzene	3.85	0.501	12.3	1.60		2.505
Benzyl chloride	ND	0.501	ND	2.59		2.505
Bromodichloromethane	ND	0.501	ND	3.35		2.505



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-01 D  
Client ID: TC-P1-SS-01  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 14:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.501	ND	5.17		2.505
Bromomethane	ND	0.501	ND	1.94		2.505
Carbon disulfide	3.29	0.501	10.2	1.56		2.505
Carbon tetrachloride	ND	0.501	ND	3.15		2.505
Chlorobenzene	ND	0.501	ND	2.30		2.505
Chloroethane	ND	0.501	ND	1.32		2.505
Chloroform	ND	0.501	ND	2.44		2.505
Chloromethane	ND	0.501	ND	1.03		2.505
cis-1,2-Dichloroethene	ND	0.501	ND	1.98		2.505
cis-1,3-Dichloropropene	ND	0.501	ND	2.27		2.505
Cyclohexane	0.794	0.501	2.73	1.72		2.505
Dibromochloromethane	ND	0.501	ND	4.26		2.505
Dichlorodifluoromethane	0.606	0.501	2.99	2.48		2.505
Ethanol	31.7	6.26	59.7	11.8		2.505
Ethyl Acetate	ND	1.25	ND	4.51		2.505
Ethylbenzene	1.46	0.501	6.32	2.17		2.505
Freon-113	ND	0.501	ND	3.84		2.505
Freon-114	ND	0.501	ND	3.50		2.505
Hexachlorobutadiene	ND	0.501	ND	5.34		2.505
Isopropanol	ND	1.25	ND	3.08		2.505
Methylene chloride	1.63	1.25	5.67	4.35		2.505
4-Methyl-2-pentanone	ND	0.501	ND	2.05		2.505
Methyl tert butyl ether	ND	0.501	ND	1.80		2.505
p/m-Xylene	3.42	1.00	14.8	4.35		2.505
o-Xylene	0.974	0.501	4.22	2.17	J	2.505
Heptane	0.760	0.501	3.11	2.05		2.505
n-Hexane	1.01	0.501	3.56	1.76		2.505
Propylene	ND	2.50	ND	4.31		2.505

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-01 D  
**Client ID:** TC-P1-SS-01  
**Sample Location:** KINGSTON, NY

**Date Collected:** 03/13/09 14:30  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.921	0.501	3.92	2.13		2.505
Tetrachloroethene	ND	0.501	ND	3.40		2.505
Tetrahydrofuran	ND	0.501	ND	1.48		2.505
Toluene	9.76	0.501	36.8	1.89		2.505
trans-1,2-Dichloroethene	ND	0.501	ND	1.98		2.505
trans-1,3-Dichloropropene	ND	0.501	ND	2.27		2.505
Trichloroethene	ND	0.501	ND	2.69		2.505
Trichlorofluoromethane	ND	0.501	ND	2.81		2.505
Vinyl acetate	ND	0.501	ND	1.76		2.505
Vinyl bromide	ND	0.501	ND	2.19		2.505
Vinyl chloride	ND	0.501	ND	1.28		2.505



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-01 D  
Client ID: TC-P1-SS-01  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/21/09 16:42  
Analyst: RY

Date Collected: 03/13/09 14:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.054	0.050	0.338	0.315		2.505
Trichloroethene	0.061	0.050	0.327	0.269		2.505
Vinyl chloride	ND	0.050	ND	0.128		2.505



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-02  
Client ID: TC-P1-IA-01  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 18:22  
Analyst: RY

Date Collected: 03/13/09 15:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.520	0.200	1.53	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	5.86	0.500	13.9	1.19	J	1
Benzene	0.356	0.200	1.14	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-02  
 Client ID: TC-P1-IA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 15:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.535	0.200	1.10	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.547	0.200	2.70	0.988		1
Ethanol	49.0	2.50	92.2	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	5.96	0.500	14.6	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	1.00	ND	1.72	J	1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-02  
 Client ID: TC-P1-IA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 15:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.214	0.200	0.805	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.246	0.200	1.38	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

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-02  
Client ID: TC-P1-IA-01  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/20/09 18:22  
Analyst: RY

Date Collected: 03/13/09 15:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.090	0.020	0.566	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-03 D  
**Client ID:** TC-P1-SS-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 03/21/09 17:19  
**Analyst:** RY

**Date Collected:** 03/13/09 13:50  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.445	ND	2.43		2.227
1,1,2,2-Tetrachloroethane	ND	0.445	ND	3.06		2.227
1,1,2-Trichloroethane	ND	0.445	ND	2.43		2.227
1,1-Dichloroethane	ND	0.445	ND	1.80		2.227
1,1-Dichloroethene	ND	0.445	ND	1.76		2.227
1,2,4-Trichlorobenzene	ND	0.445	ND	3.30		2.227
1,2,4-Trimethylbenzene	ND	0.445	ND	2.19		2.227
1,2-Dibromoethane	ND	0.445	ND	3.42		2.227
1,2-Dichlorobenzene	ND	0.445	ND	2.68		2.227
1,2-Dichloroethane	ND	0.445	ND	1.80		2.227
1,2-Dichloropropane	ND	0.445	ND	2.06		2.227
1,3,5-Trimethylbenzene	ND	0.445	ND	2.19		2.227
1,3-Butadiene	ND	0.445	ND	0.984		2.227
1,3-Dichlorobenzene	ND	0.445	ND	2.68		2.227
1,4-Dichlorobenzene	ND	0.445	ND	2.68		2.227
1,4-Dioxane	ND	0.445	ND	1.60		2.227
2,2,4-Trimethylpentane	ND	0.445	ND	2.08		2.227
2-Butanone	1.48	0.445	4.37	1.31		2.227
2-Hexanone	ND	0.445	ND	1.82		2.227
3-Chloropropene	ND	0.445	ND	1.39		2.227
4-Ethyltoluene	ND	0.445	ND	2.19		2.227
Acetone	14.8	1.11	35.2	2.64		2.227
Benzene	0.646	0.445	2.06	1.42		2.227
Benzyl chloride	ND	0.445	ND	2.30		2.227
Bromodichloromethane	ND	0.445	ND	2.98		2.227



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-03 D

Date Collected: 03/13/09 13:50

Client ID: TC-P1-SS-02

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.445	ND	4.60		2.227
Bromomethane	ND	0.445	ND	1.73		2.227
Carbon disulfide	0.591	0.445	1.84	1.38		2.227
Carbon tetrachloride	ND	0.445	ND	2.80		2.227
Chlorobenzene	ND	0.445	ND	2.05		2.227
Chloroethane	ND	0.445	ND	1.17		2.227
Chloroform	ND	0.445	ND	2.17		2.227
Chloromethane	ND	0.445	ND	0.919		2.227
cis-1,2-Dichloroethene	ND	0.445	ND	1.76		2.227
cis-1,3-Dichloropropene	ND	0.445	ND	2.02		2.227
Cyclohexane	ND	0.445	ND	1.53		2.227
Dibromochloromethane	ND	0.445	ND	3.79		2.227
Dichlorodifluoromethane	0.628	0.445	3.10	2.20		2.227
Ethanol	59.0	5.57	111	10.5		2.227
Ethyl Acetate	2.77	1.11	9.98	4.01		2.227
Ethylbenzene	0.628	0.445	2.72	1.93		2.227
Freon-113	ND	0.445	ND	3.41		2.227
Freon-114	ND	0.445	ND	3.11		2.227
Hexachlorobutadiene	ND	0.445	ND	4.75		2.227
Isopropanol	1.20	1.11	2.95	2.73		2.227
Methylene chloride	1.31	1.11	4.56	3.86		2.227
4-Methyl-2-pentanone	ND	0.445	ND	1.82		2.227
Methyl tert butyl ether	ND	0.445	ND	1.60		2.227
p/m-Xylene	1.71	0.891	7.43	3.86		2.227
o-Xylene	0.452	0.445	1.96	1.93	J	2.227
Heptane	0.814	0.445	3.33	1.82		2.227
n-Hexane	ND	0.445	ND	1.57		2.227
Propylene	ND	2.23	ND	3.83		2.227

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-03 D  
Client ID: TC-P1-SS-02  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 13:50  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.485	0.445	2.06	1.90		2.227
Tetrachloroethene	ND	0.445	ND	3.02		2.227
Tetrahydrofuran	ND	0.445	ND	1.31		2.227
Toluene	4.36	0.445	16.4	1.68		2.227
trans-1,2-Dichloroethene	ND	0.445	ND	1.76		2.227
trans-1,3-Dichloropropene	ND	0.445	ND	2.02		2.227
Trichloroethene	ND	0.445	ND	2.39		2.227
Trichlorofluoromethane	ND	0.445	ND	2.50		2.227
Vinyl acetate	ND	0.445	ND	1.57		2.227
Vinyl bromide	ND	0.445	ND	1.95		2.227
Vinyl chloride	ND	0.445	ND	1.14		2.227

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-03 D  
 Client ID: TC-P1-SS-02  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/21/09 17:19  
 Analyst: RY

Date Collected: 03/13/09 13:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.071	0.045	0.448	0.280		2.227
Trichloroethene	0.055	0.045	0.298	0.239		2.227
Vinyl chloride	ND	0.045	ND	0.114		2.227



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-04  
Client ID: TC-P1-IA-02  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 19:36  
Analyst: RY

Date Collected: 03/13/09 15:15  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.426	0.200	1.26	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	5.37	0.500	12.7	1.19	J	1
Benzene	0.298	0.200	0.950	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-04  
 Client ID: TC-P1-IA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 15:15  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.558	0.200	1.15	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.588	0.200	2.90	0.988		1
Ethanol	24.1	2.50	45.4	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	6.94	0.500	17.0	1.23		1
Methylene chloride	0.504	0.500	1.75	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	0.293	0.200	1.20	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-04  
 Client ID: TC-P1-IA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 15:15  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.285	0.200	1.07	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.255	0.200	1.43	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

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-04  
**Client ID:** TC-P1-IA-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 19:36  
**Analyst:** RY

**Date Collected:** 03/13/09 15:15  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.556	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-05 D  
Client ID: TC-P1-SS-03  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/21/09 17:56  
Analyst: RY

Date Collected: 03/13/09 15:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.493	ND	2.69		2.464
1,1,2,2-Tetrachloroethane	ND	0.493	ND	3.38		2.464
1,1,2-Trichloroethane	ND	0.493	ND	2.69		2.464
1,1-Dichloroethane	ND	0.493	ND	1.99		2.464
1,1-Dichloroethene	ND	0.493	ND	1.95		2.464
1,2,4-Trichlorobenzene	ND	0.493	ND	3.65		2.464
1,2,4-Trimethylbenzene	ND	0.493	ND	2.42		2.464
1,2-Dibromoethane	ND	0.493	ND	3.78		2.464
1,2-Dichlorobenzene	ND	0.493	ND	2.96		2.464
1,2-Dichloroethane	ND	0.493	ND	1.99		2.464
1,2-Dichloropropane	ND	0.493	ND	2.28		2.464
1,3,5-Trimethylbenzene	ND	0.493	ND	2.42		2.464
1,3-Butadiene	ND	0.493	ND	1.09		2.464
1,3-Dichlorobenzene	ND	0.493	ND	2.96		2.464
1,4-Dichlorobenzene	ND	0.493	ND	2.96		2.464
1,4-Dioxane	ND	0.493	ND	1.77		2.464
2,2,4-Trimethylpentane	ND	0.493	ND	2.30		2.464
2-Butanone	1.31	0.493	3.87	1.45		2.464
2-Hexanone	ND	0.493	ND	2.02		2.464
3-Chloropropene	ND	0.493	ND	1.54		2.464
4-Ethyltoluene	ND	0.493	ND	2.42		2.464
Acetone	8.27	1.23	19.6	2.92		2.464
Benzene	ND	0.493	ND	1.57		2.464
Benzyl chloride	ND	0.493	ND	2.55		2.464
Bromodichloromethane	ND	0.493	ND	3.30		2.464



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-05 D

Date Collected: 03/13/09 15:00

Client ID: TC-P1-SS-03

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.493	ND	5.09		2.464
Bromomethane	ND	0.493	ND	1.91		2.464
Carbon disulfide	0.606	0.493	1.89	1.53		2.464
Carbon tetrachloride	ND	0.493	ND	3.10		2.464
Chlorobenzene	ND	0.493	ND	2.27		2.464
Chloroethane	ND	0.493	ND	1.30		2.464
Chloroform	0.644	0.493	3.14	2.40		2.464
Chloromethane	ND	0.493	ND	1.02		2.464
cis-1,2-Dichloroethene	ND	0.493	ND	1.95		2.464
cis-1,3-Dichloropropene	ND	0.493	ND	2.23		2.464
Cyclohexane	ND	0.493	ND	1.69		2.464
Dibromochloromethane	ND	0.493	ND	4.19		2.464
Dichlorodifluoromethane	0.644	0.493	3.18	2.44		2.464
Ethanol	65.2	6.16	123	11.6		2.464
Ethyl Acetate	2.27	1.23	8.18	4.44		2.464
Ethylbenzene	ND	0.493	ND	2.14		2.464
Freon-113	ND	0.493	ND	3.77		2.464
Freon-114	ND	0.493	ND	3.44		2.464
Hexachlorobutadiene	ND	0.493	ND	5.25		2.464
Isopropanol	<del>ND</del>	<del>1.23</del>	<del>ND</del>	<del>3.02</del>	R	2.464
Methylene chloride	1.37	1.23	4.77	4.28		2.464
4-Methyl-2-pentanone	ND	0.493	ND	2.02		2.464
Methyl tert butyl ether	ND	0.493	ND	1.78		2.464
p/m-Xylene	ND	0.986	ND	4.28		2.464
o-Xylene	ND	0.493	ND	2.14	J	2.464
Heptane	0.511	0.493	2.09	2.02		2.464
n-Hexane	ND	0.493	ND	1.74		2.464
Propylene	ND	2.46	ND	4.24		2.464

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-05 D  
Client ID: TC-P1-SS-03  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 15:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	4.13	0.493	17.6	2.10		2.464
Tetrachloroethene	ND	0.493	ND	3.34		2.464
Tetrahydrofuran	ND	0.493	ND	1.45		2.464
Toluene	1.15	0.493	4.33	1.86		2.464
trans-1,2-Dichloroethene	ND	0.493	ND	1.95		2.464
trans-1,3-Dichloropropene	ND	0.493	ND	2.23		2.464
Trichloroethene	ND	0.493	ND	2.65		2.464
Trichlorofluoromethane	ND	0.493	ND	2.77		2.464
Vinyl acetate	ND	0.493	ND	1.73		2.464
Vinyl bromide	ND	0.493	ND	2.15		2.464
Vinyl chloride	ND	0.493	ND	1.26		2.464



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-05 D  
Client ID: TC-P1-SS-03  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/21/09 17:56  
Analyst: RY

Date Collected: 03/13/09 15:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.055	0.049	0.347	0.310		2.464
Trichloroethene	0.246	0.049	1.32	0.265		2.464
Vinyl chloride	ND	0.049	ND	0.126		2.464



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-06  
Client ID: TC-P1-IA-03  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 20:13  
Analyst: RY

Date Collected: 03/13/09 16:35  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.268	0.200	0.791	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	2.52	0.500	6.00	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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-06  
 Client ID: TC-P1-IA-03  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:35  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.504	0.200	1.04	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.625	0.200	3.09	0.988		1
Ethanol	14.2	2.50	26.8	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	3.22	0.500	7.91	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	1.00	ND	1.72	J	1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-06  
Client ID: TC-P1-IA-03  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:35  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.278	0.200	1.05	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.256	0.200	1.43	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

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-06  
**Client ID:** TC-P1-IA-03  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 20:13  
**Analyst:** RY

**Date Collected:** 03/13/09 16:35  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.089	0.020	0.559	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-07 D  
 Client ID: TC-P1-SS-04  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 18:35  
 Analyst: RY

Date Collected: 03/13/09 16:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	0.644	0.505	3.51	2.75		2.526
1,1,2,2-Tetrachloroethane	ND	0.505	ND	3.46		2.526
1,1,2-Trichloroethane	ND	0.505	ND	2.75		2.526
1,1-Dichloroethane	ND	0.505	ND	2.04		2.526
1,1-Dichloroethene	ND	0.505	ND	2.00		2.526
1,2,4-Trichlorobenzene	ND	0.505	ND	3.75		2.526
1,2,4-Trimethylbenzene	ND	0.505	ND	2.48		2.526
1,2-Dibromoethane	ND	0.505	ND	3.88		2.526
1,2-Dichlorobenzene	ND	0.505	ND	3.03		2.526
1,2-Dichloroethane	ND	0.505	ND	2.04		2.526
1,2-Dichloropropane	ND	0.505	ND	2.33		2.526
1,3,5-Trimethylbenzene	ND	0.505	ND	2.48		2.526
1,3-Butadiene	6.24	0.505	13.8	1.12		2.526
1,3-Dichlorobenzene	ND	0.505	ND	3.03		2.526
1,4-Dichlorobenzene	ND	0.505	ND	3.03		2.526
1,4-Dioxane	ND	0.505	ND	1.82		2.526
2,2,4-Trimethylpentane	ND	0.505	ND	2.36		2.526
2-Butanone	4.94	0.505	14.5	1.49		2.526
2-Hexanone	ND	0.505	ND	2.07		2.526
3-Chloropropene	ND	0.505	ND	1.58		2.526
4-Ethyltoluene	ND	0.505	ND	2.48		2.526
Acetone	34.5	1.26	82.0	3.00	J	2.526
Benzene	4.49	0.505	14.3	1.61		2.526
Benzyl chloride	ND	0.505	ND	2.61		2.526
Bromodichloromethane	ND	0.505	ND	3.38		2.526



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-07 D  
 Client ID: TC-P1-SS-04  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.505	ND	5.22		2.526
Bromomethane	ND	0.505	ND	1.96		2.526
Carbon disulfide	1.18	0.505	3.66	1.57		2.526
Carbon tetrachloride	ND	0.505	ND	3.18		2.526
Chlorobenzene	ND	0.505	ND	2.32		2.526
Chloroethane	ND	0.505	ND	1.33		2.526
Chloroform	ND	0.505	ND	2.46		2.526
Chloromethane	ND	0.505	ND	1.04		2.526
cis-1,2-Dichloroethene	ND	0.505	ND	2.00		2.526
cis-1,3-Dichloropropene	ND	0.505	ND	2.29		2.526
Cyclohexane	1.72	0.505	5.90	1.74		2.526
Dibromochloromethane	ND	0.505	ND	4.30		2.526
Dichlorodifluoromethane	1.32	0.505	6.54	2.50		2.526
Ethanol	9.68	6.32	18.2	11.9		2.526
Ethyl Acetate	ND	1.26	ND	4.55		2.526
Ethylbenzene	0.910	0.505	3.95	2.19		2.526
Freon-113	ND	0.505	ND	3.87		2.526
Freon-114	ND	0.505	ND	3.53		2.526
Hexachlorobutadiene	ND	0.505	ND	5.38		2.526
Isopropanol	<del>ND</del>	<del>1.26</del>	<del>ND</del>	<del>3.10</del>		2.526
Methylene chloride	1.57	1.26	5.45	4.38		2.526
4-Methyl-2-pentanone	ND	0.505	ND	2.07		2.526
Methyl tert butyl ether	ND	0.505	ND	1.82		2.526
p/m-Xylene	2.33	1.01	10.1	4.38		2.526
o-Xylene	0.666	0.505	2.89	2.19	J	2.526
Heptane	0.622	0.505	2.55	2.07		2.526
n-Hexane	1.03	0.505	3.62	1.78		2.526
Propylene	47.6	2.53	81.8	4.34		2.526

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-07 D  
**Client ID:** TC-P1-SS-04  
**Sample Location:** KINGSTON, NY

**Date Collected:** 03/13/09 16:45  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.777	0.505	3.31	2.15		2.526
Tetrachloroethene	ND	0.505	ND	3.42		2.526
Tetrahydrofuran	ND	0.505	ND	1.49		2.526
Toluene	6.28	0.505	23.6	1.90		2.526
trans-1,2-Dichloroethene	ND	0.505	ND	2.00		2.526
trans-1,3-Dichloropropene	ND	0.505	ND	2.29		2.526
Trichloroethene	ND	0.505	ND	2.71		2.526
Trichlorofluoromethane	0.964	0.505	5.41	2.84		2.526
Vinyl acetate	ND	0.505	ND	1.78		2.526
Vinyl bromide	ND	0.505	ND	2.21		2.526
Vinyl chloride	ND	0.505	ND	1.29		2.526

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-07 D  
 Client ID: TC-P1-SS-04  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/21/09 18:35  
 Analyst: RY

Date Collected: 03/13/09 16:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.051	ND	0.318		2.526
Trichloroethene	0.055	0.051	0.296	0.271		2.526
Vinyl chloride	ND	0.051	ND	0.129		2.526



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-08  
Client ID: TC-P1-IA-04  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 20:51  
Analyst: RY

Date Collected: 03/13/09 19:20  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.609	0.200	1.79	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	7.29	0.500	17.3	1.19	J	1
Benzene	0.651	0.200	2.08	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-08  
 Client ID: TC-P1-IA-04  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 19:20  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.622	0.200	1.28	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.656	0.200	3.24	0.988		1
Ethanol	31.7	2.50	59.7	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	8.27	0.500	20.3	1.23		1
Methylene chloride	ND	0.500	ND	1.74		1
4-Methyl-2-pentanone	0.225	0.200	0.920	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	0.440	0.200	1.80	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-08  
 Client ID: TC-P1-IA-04  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 19:20  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	0.203	0.200	0.864	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Tetrahydrofuran	ND	0.200	ND	0.589		1
Toluene	0.905	0.200	3.41	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.291	0.200	1.63	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

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-08  
 Client ID: TC-P1-IA-04  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/20/09 20:51  
 Analyst: RY

Date Collected: 03/13/09 19:20  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.090	0.020	0.563	0.126		1
Trichloroethene	0.022	0.020	0.116	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-09  
Client ID: TC-P1-OA-01  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 21:28  
Analyst: RY

Date Collected: 03/13/09 16:25  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.239	0.200	0.705	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	2.70	0.500	6.42	1.19		1
Benzene	0.226	0.200	0.723	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-09  
 Client ID: TC-P1-OA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.563	0.200	1.16	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.468	0.200	2.32	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-09  
 Client ID: TC-P1-OA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.226	0.200	0.852	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.241	0.200	1.35	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

Project Name: TECH CITY  
 Project Number: 0096812

Lab Number: L0903165  
 Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-09  
 Client ID: TC-P1-OA-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/20/09 21:28  
 Analyst: RY

Date Collected: 03/13/09 16:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.551	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-10 D  
Client ID: TC-P1-ASG-01  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/21/09 19:11  
Analyst: RY

Date Collected: 03/16/09 18:15  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.529	ND	2.88		2.646
1,1,2,2-Tetrachloroethane	ND	0.529	ND	3.63		2.646
1,1,2-Trichloroethane	ND	0.529	ND	2.88		2.646
1,1-Dichloroethane	ND	0.529	ND	2.14		2.646
1,1-Dichloroethene	ND	0.529	ND	2.10		2.646
1,2,4-Trichlorobenzene	ND	0.529	ND	3.92		2.646
1,2,4-Trimethylbenzene	1.77	0.529	8.71	2.60		2.646
1,2-Dibromoethane	ND	0.529	ND	4.06		2.646
1,2-Dichlorobenzene	ND	0.529	ND	3.18		2.646
1,2-Dichloroethane	ND	0.529	ND	2.14		2.646
1,2-Dichloropropane	ND	0.529	ND	2.44		2.646
1,3,5-Trimethylbenzene	0.771	0.529	3.79	2.60		2.646
1,3-Butadiene	ND	0.529	ND	1.17		2.646
1,3-Dichlorobenzene	ND	0.529	ND	3.18		2.646
1,4-Dichlorobenzene	2.34	0.529	14.1	3.18		2.646
1,4-Dioxane	ND	0.529	ND	1.90		2.646
2,2,4-Trimethylpentane	ND	0.529	ND	2.47		2.646
2-Butanone	7.04	0.529	20.7	1.56		2.646
2-Hexanone	0.784	0.529	3.21	2.17		2.646
3-Chloropropene	ND	0.529	ND	1.66		2.646
4-Ethyltoluene	ND	0.529	ND	2.60		2.646
Acetone	<del>303</del>	<del>1.32</del>	<del>720</del>	<del>3.14</del>	E	<del>2.646</del>
Benzene	0.604	0.529	1.93	1.69		2.646
Benzyl chloride	ND	0.529	ND	2.74		2.646
Bromodichloromethane	ND	0.529	ND	3.54		2.646

\* use result from diluted analysis



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-10 D  
Client ID: TC-P1-ASG-01  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:15  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.529	ND	5.46		2.646
Bromomethane	ND	0.529	ND	2.05		2.646
Carbon disulfide	5.08	0.529	15.8	1.65		2.646
Carbon tetrachloride	ND	0.529	ND	3.33		2.646
Chlorobenzene	ND	0.529	ND	2.43		2.646
Chloroethane	ND	0.529	ND	1.40		2.646
Chloroform	0.942	0.529	4.60	2.58		2.646
Chloromethane	ND	0.529	ND	1.09		2.646
cis-1,2-Dichloroethene	ND	0.529	ND	2.10		2.646
cis-1,3-Dichloropropene	ND	0.529	ND	2.40		2.646
Cyclohexane	ND	0.529	ND	1.82		2.646
Dibromochloromethane	ND	0.529	ND	4.50		2.646
Dichlorodifluoromethane	0.579	0.529	2.86	2.62		2.646
Ethanol	ND	6.62	ND	12.4		2.646
Ethyl Acetate	ND	1.32	ND	4.76		2.646
Ethylbenzene	2.13	0.529	9.24	2.30		2.646
Freon-113	ND	0.529	ND	4.05		2.646
Freon-114	ND	0.529	ND	3.70		2.646
Hexachlorobutadiene	ND	0.529	ND	5.64		2.646
Isopropanol	<del>ND</del>	<del>1.32</del>	<del>ND</del>	<del>3.25</del>	R	2.646
Methylene chloride	ND	1.32	ND	4.59		2.646
4-Methyl-2-pentanone	ND	0.529	ND	2.17		2.646
Methyl tert butyl ether	ND	0.529	ND	1.91		2.646
p/m-Xylene	8.31	1.06	36.1	4.59		2.646
o-Xylene	2.86	0.529	12.4	2.30	J	2.646
Heptane	0.845	0.529	3.46	2.17		2.646
n-Hexane	ND	0.529	ND	1.86		2.646
Propylene	4.50	2.44	7.74	4.20		2.646

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-10 D  
Client ID: TC-P1-ASG-01  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:15  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.529	ND	2.25		2.646
Tetrachloroethene	0.783	0.529	5.30	3.59		2.646
Tetrahydrofuran	ND	0.529	ND	1.56		2.646
Toluene	5.05	0.529	19.0	1.99		2.646
trans-1,2-Dichloroethene	ND	0.529	ND	2.10		2.646
trans-1,3-Dichloropropene	ND	0.529	ND	2.40		2.646
Trichloroethene	ND	0.529	ND	2.84		2.646
Trichlorofluoromethane	ND	0.529	ND	2.97		2.646
Vinyl acetate	ND	0.529	ND	1.86		2.646
Vinyl bromide	ND	0.529	ND	2.31		2.646
Vinyl chloride	ND	0.529	ND	1.35		2.646

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-10 D  
Client ID: TC-P1-ASG-01  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/21/09 19:11  
Analyst: RY

Date Collected: 03/16/09 18:15  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.053	ND	0.333		2.646
Trichloroethene	0.053	0.053	0.286	0.284		2.646
Vinyl chloride	ND	0.053	ND	0.135		2.646

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-10 DR  
Client ID: TC-P1-ASG-01  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/22/09 01:49  
Analyst: RY

Date Collected: 03/16/09 18:15  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	241	2.65	571	6.28		5.292

*Use this result.*



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-11  
Client ID: TC-P1-OA-02  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 22:05  
Analyst: RY

Date Collected: 03/16/09 18:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.375	0.200	1.10	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	3.44	0.500	8.18	1.19		1
Benzene	0.256	0.200	0.816	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-11  
Client ID: TC-P1-OA-02  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.517	0.200	1.07	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.468	0.200	2.31	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-11  
Client ID: TC-P1-OA-02  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.217	0.200	0.817	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.218	0.200	1.22	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



**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-11  
**Client ID:** TC-P1-OA-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 22:05  
**Analyst:** RY

**Date Collected:** 03/16/09 18:45  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.551	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-12 D  
Client ID: TC-P4A-SS-01  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/21/09 20:26  
Analyst: RY

Date Collected: 03/13/09 16:05  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	0.955	0.462	5.21	2.52		2.312
1,1,2,2-Tetrachloroethane	ND	0.462	ND	3.17		2.312
1,1,2-Trichloroethane	ND	0.462	ND	2.52		2.312
1,1-Dichloroethane	ND	0.462	ND	1.87		2.312
1,1-Dichloroethene	ND	0.462	ND	1.83		2.312
1,2,4-Trichlorobenzene	ND	0.462	ND	3.43		2.312
1,2,4-Trimethylbenzene	ND	0.462	ND	2.27		2.312
1,2-Dibromoethane	ND	0.462	ND	3.55		2.312
1,2-Dichlorobenzene	ND	0.462	ND	2.78		2.312
1,2-Dichloroethane	ND	0.462	ND	1.87		2.312
1,2-Dichloropropane	ND	0.462	ND	2.14		2.312
1,3,5-Trimethylbenzene	ND	0.462	ND	2.27		2.312
1,3-Butadiene	ND	0.462	ND	1.02		2.312
1,3-Dichlorobenzene	ND	0.462	ND	2.78		2.312
1,4-Dichlorobenzene	ND	0.462	ND	2.78		2.312
1,4-Dioxane	ND	0.462	ND	1.66		2.312
2,2,4-Trimethylpentane	ND	0.462	ND	2.16		2.312
2-Butanone	0.732	0.462	2.16	1.36		2.312
2-Hexanone	ND	0.462	ND	1.89		2.312
3-Chloropropene	ND	0.462	ND	1.45		2.312
4-Ethyltoluene	ND	0.462	ND	2.27		2.312
Acetone	7.19	1.16	17.1	2.74		2.312
Benzene	0.614	0.462	1.96	1.48		2.312
Benzyl chloride	ND	0.462	ND	2.39		2.312
Bromodichloromethane	ND	0.462	ND	3.10		2.312



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-12 D  
Client ID: TC-P4A-SS-01  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:05  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.462	ND	4.78		2.312
Bromomethane	ND	0.462	ND	1.79		2.312
Carbon disulfide	ND	0.462	ND	1.44		2.312
Carbon tetrachloride	ND	0.462	ND	2.91		2.312
Chlorobenzene	ND	0.462	ND	2.13		2.312
Chloroethane	ND	0.462	ND	1.22		2.312
Chloroform	ND	0.462	ND	2.26		2.312
Chloromethane	ND	0.462	ND	0.954		2.312
cis-1,2-Dichloroethene	ND	0.462	ND	1.83		2.312
cis-1,3-Dichloropropene	ND	0.462	ND	2.10		2.312
Cyclohexane	ND	0.462	ND	1.59		2.312
Dibromochloromethane	ND	0.462	ND	3.94		2.312
Dichlorodifluoromethane	0.683	0.462	3.38	2.28		2.312
Ethanol	6.57	5.78	12.4	10.9		2.312
Ethyl Acetate	ND	1.16	ND	4.16		2.312
Ethylbenzene	ND	0.462	ND	2.01		2.312
Freon-113	ND	0.462	ND	3.54		2.312
Freon-114	ND	0.462	ND	3.23		2.312
Hexachlorobutadiene	ND	0.462	ND	4.93		2.312
Isopropanol	<del>ND</del>	<del>1.16</del>	<del>ND</del>	<del>2.84</del>	R	2.312
Methylene chloride	1.30	1.16	4.50	4.01		2.312
4-Methyl-2-pentanone	ND	0.462	ND	1.89		2.312
Methyl tert butyl ether	ND	0.462	ND	1.66		2.312
p/m-Xylene	1.02	0.925	4.41	4.01		2.312
o-Xylene	ND	0.462	ND	2.01	J	2.312
Heptane	ND	0.462	ND	1.89		2.312
n-Hexane	ND	0.462	ND	1.63		2.312
Propylene	ND	2.31	ND	3.98		2.312

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-12 D  
Client ID: TC-P4A-SS-01  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:05  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.462	ND	1.97		2.312
Tetrachloroethene	ND	0.462	ND	3.13		2.312
Tetrahydrofuran	ND	0.462	ND	1.36		2.312
Toluene	3.12	0.462	11.8	1.74		2.312
trans-1,2-Dichloroethene	ND	0.462	ND	1.83		2.312
trans-1,3-Dichloropropene	ND	0.462	ND	2.10		2.312
Trichloroethene	ND	0.462	ND	2.48		2.312
Trichlorofluoromethane	ND	0.462	ND	2.60		2.312
Vinyl acetate	ND	0.462	ND	1.63		2.312
Vinyl bromide	ND	0.462	ND	2.02		2.312
Vinyl chloride	ND	0.462	ND	1.18		2.312

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-12 D  
**Client ID:** TC-P4A-SS-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 20:26  
**Analyst:** RY

**Date Collected:** 03/13/09 16:05  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.046	ND	0.291		2.312
Trichloroethene	0.063	0.046	0.336	0.248		2.312
Vinyl chloride	ND	0.046	ND	0.118		2.312



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-13  
Client ID: TC-P4A-IA-01  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 22:42  
Analyst: RY

Date Collected: 03/13/09 16:50  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.281	0.200	0.827	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	1.88	0.500	4.45	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: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-13  
Client ID: TC-P4A-IA-01  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:50  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.486	0.200	1.00	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.531	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	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	1.11	0.500	2.73	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	1.00	ND	1.72	J	1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-13  
Client ID: TC-P4A-IA-01  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:50  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.245	0.200	0.923	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.259	0.200	1.45	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



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-13  
Client ID: TC-P4A-IA-01  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/20/09 22:42  
Analyst: RY

Date Collected: 03/13/09 16:50  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.556	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-14 D  
Client ID: TC-P4A-SS-02  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/21/09 21:03  
Analyst: RY

Date Collected: 03/13/09 14:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.510	ND	2.78		2.548
1,1,2,2-Tetrachloroethane	ND	0.510	ND	3.50		2.548
1,1,2-Trichloroethane	ND	0.510	ND	2.78		2.548
1,1-Dichloroethane	ND	0.510	ND	2.06		2.548
1,1-Dichloroethene	ND	0.510	ND	2.02		2.548
1,2,4-Trichlorobenzene	ND	0.510	ND	3.78		2.548
1,2,4-Trimethylbenzene	ND	0.510	ND	2.50		2.548
1,2-Dibromoethane	ND	0.510	ND	3.91		2.548
1,2-Dichlorobenzene	ND	0.510	ND	3.06		2.548
1,2-Dichloroethane	ND	0.510	ND	2.06		2.548
1,2-Dichloropropane	ND	0.510	ND	2.35		2.548
1,3,5-Trimethylbenzene	ND	0.510	ND	2.50		2.548
1,3-Butadiene	ND	0.510	ND	1.13		2.548
1,3-Dichlorobenzene	ND	0.510	ND	3.06		2.548
1,4-Dichlorobenzene	ND	0.510	ND	3.06		2.548
1,4-Dioxane	ND	0.510	ND	1.83		2.548
2,2,4-Trimethylpentane	ND	0.510	ND	2.38		2.548
2-Butanone	1.47	0.510	4.34	1.50		2.548
2-Hexanone	ND	0.510	ND	2.08		2.548
3-Chloropropene	ND	0.510	ND	1.59		2.548
4-Ethyltoluene	ND	0.510	ND	2.50		2.548
Acetone	12.7	1.27	30.2	3.02		2.548
Benzene	ND	0.510	ND	1.63		2.548
Benzyl chloride	ND	0.510	ND	2.64		2.548
Bromodichloromethane	ND	0.510	ND	3.41		2.548



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-14 D  
Client ID: TC-P4A-SS-02  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 14:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.510	ND	5.26		2.548
Bromomethane	ND	0.510	ND	1.98		2.548
Carbon disulfide	0.633	0.510	1.97	1.58		2.548
Carbon tetrachloride	ND	0.510	ND	3.20		2.548
Chlorobenzene	ND	0.510	ND	2.34		2.548
Chloroethane	ND	0.510	ND	1.34		2.548
Chloroform	ND	0.510	ND	2.49		2.548
Chloromethane	ND	0.510	ND	1.05		2.548
cis-1,2-Dichloroethene	ND	0.510	ND	2.02		2.548
cis-1,3-Dichloropropene	ND	0.510	ND	2.31		2.548
Cyclohexane	ND	0.510	ND	1.75		2.548
Dibromochloromethane	ND	0.510	ND	4.34		2.548
Dichlorodifluoromethane	0.598	0.510	2.95	2.52		2.548
Ethanol	840	6.37	1580	12.0		2.548
Ethyl Acetate	20.7	1.27	74.6	4.59		2.548
Ethylbenzene	ND	0.510	ND	2.21		2.548
Freon-113	ND	0.510	ND	3.90		2.548
Freon-114	ND	0.510	ND	3.56		2.548
Hexachlorobutadiene	ND	0.510	ND	5.43		2.548
Isopropanol	<del>ND</del>	<del>1.27</del>	<del>ND</del>	<del>3.13</del>	R	2.548
Methylene chloride	1.42	1.27	4.93	4.42		2.548
4-Methyl-2-pentanone	ND	0.510	ND	2.08		2.548
Methyl tert butyl ether	ND	0.510	ND	1.84		2.548
p/m-Xylene	ND	1.02	ND	4.42		2.548
o-Xylene	ND	0.510	ND	2.21	J	2.548
Heptane	3.53	0.510	14.4	2.09		2.548
n-Hexane	ND	0.510	ND	1.79		2.548
Propylene	ND	2.55	ND	4.38		2.548

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-14 D  
**Client ID:** TC-P4A-SS-02  
**Sample Location:** KINGSTON, NY

**Date Collected:** 03/13/09 14:45  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.510	ND	2.17		2.548
Tetrachloroethene	ND	0.510	ND	3.45		2.548
Tetrahydrofuran	ND	0.510	ND	1.50		2.548
Toluene	2.45	0.510	9.21	1.92		2.548
trans-1,2-Dichloroethene	ND	0.510	ND	2.02		2.548
trans-1,3-Dichloropropene	ND	0.510	ND	2.31		2.548
Trichloroethene	ND	0.510	ND	2.74		2.548
Trichlorofluoromethane	0.526	0.510	2.95	2.86		2.548
Vinyl acetate	ND	0.510	ND	1.79		2.548
Vinyl bromide	ND	0.510	ND	2.23		2.548
Vinyl chloride	ND	0.510	ND	1.30		2.548



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-14 D  
Client ID: TC-P4A-SS-02  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/21/09 21:03  
Analyst: RY

Date Collected: 03/13/09 14:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.051	ND	0.320		2.548
Trichloroethene	ND	0.051	ND	0.274		2.548
Vinyl chloride	ND	0.051	ND	0.130		2.548



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-15  
Client ID: TC-P4A-IA-02  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 23:19  
Analyst: RY

Date Collected: 03/13/09 17:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	1.89	0.500	4.50	1.19	J	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: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-15  
 Client ID: TC-P4A-IA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.545	0.200	1.12	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.520	0.200	2.57	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-15  
 Client ID: TC-P4A-IA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.261	0.200	1.47	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



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-15  
Client ID: TC-P4A-IA-02  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/20/09 23:19  
Analyst: RY

Date Collected: 03/13/09 17:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.090	0.020	0.568	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-16 D  
Client ID: TC-P4A-SS-03  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/21/09 21:38  
Analyst: RY

Date Collected: 03/13/09 16:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	2.13	ND	11.6		10.66
1,1,2,2-Tetrachloroethane	ND	2.13	ND	14.6		10.66
1,1,2-Trichloroethane	ND	2.13	ND	11.6		10.66
1,1-Dichloroethane	ND	2.13	ND	8.62		10.66
1,1-Dichloroethene	ND	2.13	ND	8.45		10.66
1,2,4-Trichlorobenzene	ND	2.13	ND	15.8		10.66
1,2,4-Trimethylbenzene	ND	2.13	ND	10.5		10.66
1,2-Dibromoethane	ND	2.13	ND	16.4		10.66
1,2-Dichlorobenzene	ND	2.13	ND	12.8		10.66
1,2-Dichloroethane	ND	2.13	ND	8.62		10.66
1,2-Dichloropropane	ND	2.13	ND	9.84		10.66
1,3,5-Trimethylbenzene	ND	2.13	ND	10.5		10.66
1,3-Butadiene	ND	2.13	ND	4.71		10.66
1,3-Dichlorobenzene	ND	2.13	ND	12.8		10.66
1,4-Dichlorobenzene	ND	2.13	ND	12.8		10.66
1,4-Dioxane	ND	2.13	ND	7.68		10.66
2,2,4-Trimethylpentane	ND	2.13	ND	9.95		10.66
2-Butanone	ND	2.13	ND	6.28		10.66
2-Hexanone	ND	2.13	ND	8.73		10.66
3-Chloropropene	ND	2.13	ND	6.67		10.66
4-Ethyltoluene	ND	2.13	ND	10.5		10.66
Acetone	8.02	5.33	19.0	12.6		10.66
Benzene	ND	2.13	ND	6.80		10.66
Benzyl chloride	ND	2.13	ND	11.0		10.66
Bromodichloromethane	ND	2.13	ND	14.3		10.66

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-16 D  
Client ID: TC-P4A-SS-03  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	2.13	ND	22.0		10.66
Bromomethane	ND	2.13	ND	8.27		10.66
Carbon disulfide	ND	2.13	ND	6.63		10.66
Carbon tetrachloride	ND	2.13	ND	13.4		10.66
Chlorobenzene	ND	2.13	ND	9.81		10.66
Chloroethane	ND	2.13	ND	5.62		10.66
Chloroform	ND	2.13	ND	10.4		10.66
Chloromethane	ND	2.13	ND	4.40		10.66
cis-1,2-Dichloroethene	ND	2.13	ND	8.45		10.66
cis-1,3-Dichloropropene	ND	2.13	ND	9.67		10.66
Cyclohexane	ND	2.13	ND	7.33		10.66
Dibromochloromethane	ND	2.13	ND	18.1		10.66
Dichlorodifluoromethane	<del>2050</del>	2.13	<del>10200</del>	10.5	E	<del>10.66</del>
Ethanol	139	26.6	262	50.2		10.66
Ethyl Acetate	ND	5.33	ND	19.2		10.66
Ethylbenzene	ND	2.13	ND	9.25		10.66
Freon-113	ND	2.13	ND	16.3		10.66
Freon-114	ND	2.13	ND	14.9		10.66
Hexachlorobutadiene	ND	2.13	ND	22.7		10.66
Isopropanol	<del>ND</del>	5.33	<del>ND</del>	13.1	R	10.66
Methylene chloride	ND	5.33	ND	18.5		10.66
4-Methyl-2-pentanone	ND	2.13	ND	8.73		10.66
Methyl tert butyl ether	ND	2.13	ND	7.68		10.66
p/m-Xylene	ND	4.26	ND	18.5		10.66
o-Xylene	ND	2.13	ND	9.25	J	10.66
Heptane	ND	2.13	ND	8.73		10.66
n-Hexane	ND	2.13	ND	7.51		10.66
Propylene	ND	10.7	ND	18.3		10.66

\* use result for this compound from further diluted analysis.



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-16 D  
Client ID: TC-P4A-SS-03  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 16:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	2.13	ND	9.07		10.66
Tetrachloroethene	ND	2.13	ND	14.4		10.66
Tetrahydrofuran	ND	2.13	ND	6.28		10.66
Toluene	ND	2.13	ND	8.03		10.66
trans-1,2-Dichloroethene	ND	2.13	ND	8.45		10.66
trans-1,3-Dichloropropene	ND	2.13	ND	9.67		10.66
Trichloroethene	2.37	2.13	12.7	11.4		10.66
Trichlorofluoromethane	ND	2.13	ND	12.0		10.66
Vinyl acetate	ND	2.13	ND	7.50		10.66
Vinyl bromide	ND	2.13	ND	9.32		10.66
Vinyl chloride	ND	2.13	ND	5.44		10.66

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Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-16 D  
Client ID: TC-P4A-SS-03  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/23/09 19:40  
Analyst: RY

Date Collected: 03/13/09 16:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Dichlorodifluoromethane	1460	17.4	7220	86.0		87.02

*Use this result*



**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-16 D  
 Client ID: TC-P4A-SS-03  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/21/09 21:38  
 Analyst: RY

Date Collected: 03/13/09 16:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.213	ND	1.34		10.66
Trichloroethene	2.16	0.213	11.6	1.14		10.66
Vinyl chloride	ND	0.213	ND	0.544		10.66



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-17  
Client ID: TC-P4A-IA-03  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/20/09 23:56  
Analyst: RY

Date Collected: 03/13/09 17:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	3.32	0.500	7.88	1.19	J	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: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-17  
Client ID: TC-P4A-IA-03  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.507	0.200	1.04	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.920	0.200	4.55	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-17  
Client ID: TC-P4A-IA-03  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 17:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.231	0.200	0.869	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.233	0.200	1.31	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

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-17  
**Client ID:** TC-P4A-IA-03  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/20/09 23:56  
**Analyst:** RY

**Date Collected:** 03/13/09 17:30  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.089	0.020	0.562	0.126		1
Trichloroethene	0.034	0.020	0.184	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-18 D  
Client ID: TC-P4A-SS-04  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/21/09 22:15  
Analyst: RY

Date Collected: 03/13/09 15:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.557	ND	3.03		2.783
1,1,2,2-Tetrachloroethane	ND	0.557	ND	3.82		2.783
1,1,2-Trichloroethane	ND	0.557	ND	3.03		2.783
1,1-Dichloroethane	ND	0.557	ND	2.25		2.783
1,1-Dichloroethene	ND	0.557	ND	2.20		2.783
1,2,4-Trichlorobenzene	ND	0.557	ND	4.13		2.783
1,2,4-Trimethylbenzene	ND	0.557	ND	2.73		2.783
1,2-Dibromoethane	ND	0.557	ND	4.27		2.783
1,2-Dichlorobenzene	ND	0.557	ND	3.34		2.783
1,2-Dichloroethane	ND	0.557	ND	2.25		2.783
1,2-Dichloropropane	ND	0.557	ND	2.57		2.783
1,3,5-Trimethylbenzene	ND	0.557	ND	2.73		2.783
1,3-Butadiene	ND	0.557	ND	1.23		2.783
1,3-Dichlorobenzene	ND	0.557	ND	3.34		2.783
1,4-Dichlorobenzene	ND	0.557	ND	3.34		2.783
1,4-Dioxane	5.05	0.557	18.2	2.00		2.783
2,2,4-Trimethylpentane	ND	0.557	ND	2.60		2.783
2-Butanone	8.76	0.557	25.8	1.64		2.783
2-Hexanone	ND	0.557	ND	2.28		2.783
3-Chloropropene	ND	0.557	ND	1.74		2.783
4-Ethyltoluene	ND	0.557	ND	2.73		2.783
Acetone	119	1.39	283	3.30		2.783
Benzene	1.17	0.557	3.73	1.78		2.783
Benzyl chloride	ND	0.557	ND	2.88		2.783
Bromodichloromethane	ND	0.557	ND	3.73		2.783

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-18 D

Date Collected: 03/13/09 15:00

Client ID: TC-P4A-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.557	ND	5.75		2.783
Bromomethane	ND	0.557	ND	2.16		2.783
Carbon disulfide	1.59	0.557	4.96	1.73		2.783
Carbon tetrachloride	ND	0.557	ND	3.50		2.783
Chlorobenzene	ND	0.557	ND	2.56		2.783
Chloroethane	ND	0.557	ND	1.47		2.783
Chloroform	ND	0.557	ND	2.72		2.783
Chloromethane	ND	0.557	ND	1.15		2.783
cis-1,2-Dichloroethene	ND	0.557	ND	2.20		2.783
cis-1,3-Dichloropropene	ND	0.557	ND	2.52		2.783
Cyclohexane	ND	0.557	ND	1.91		2.783
Dibromochloromethane	ND	0.557	ND	4.74		2.783
Dichlorodifluoromethane	0.590	0.557	2.92	2.75		2.783
Ethanol	<del>2250</del>	<del>6.96</del>	<del>4240</del>	<del>13.1</del>	E	2.783
Ethyl Acetate	22.0	1.39	79.2	5.01		2.783
Ethylbenzene	2.90	0.557	12.6	2.41		2.783
Freon-113	ND	0.557	ND	4.26		2.783
Freon-114	ND	0.557	ND	3.89		2.783
Hexachlorobutadiene	ND	0.557	ND	5.93		2.783
Isopropanol	<del>ND</del>	<del>1.39</del>	<del>ND</del>	<del>3.42</del>	R	2.783
Methylene chloride	4.22	1.39	14.6	4.83		2.783
4-Methyl-2-pentanone	ND	0.557	ND	2.28		2.783
Methyl tert butyl ether	ND	0.557	ND	2.00		2.783
p/m-Xylene	4.36	1.11	18.9	4.83		2.783
o-Xylene	1.10	0.557	4.76	2.41	J	2.783
Heptane	4.98	0.557	20.4	2.28		2.783
n-Hexane	ND	0.557	ND	1.96		2.783
Propylene	ND	2.78	ND	4.78		2.783

\* use result from further diluted analysis

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-18 D

Date Collected: 03/13/09 15:00

Client ID: TC-P4A-SS-04

Date Received: 03/17/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	1.06	0.557	4.50	2.37		2.783
Tetrachloroethene	ND	0.557	ND	3.77		2.783
Tetrahydrofuran	ND	0.557	ND	1.64		2.783
Toluene	8.11	0.557	30.5	2.10		2.783
trans-1,2-Dichloroethene	ND	0.557	ND	2.20		2.783
trans-1,3-Dichloropropene	ND	0.557	ND	2.52		2.783
Trichloroethene	ND	0.557	ND	2.99		2.783
Trichlorofluoromethane	0.589	0.557	3.30	3.12		2.783
Vinyl acetate	ND	0.557	ND	1.96		2.783
Vinyl bromide	ND	0.557	ND	2.43		2.783
Vinyl chloride	ND	0.557	ND	1.42		2.783

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Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

**SAMPLE RESULTS**

Lab ID: L0903165-18 D  
Client ID: TC-P4A-SS-04  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48, TO-15  
Analytical Date: 03/22/09 03:37  
Analyst: RY

Date Collected: 03/13/09 15:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Ethanol	2300	27.8	4340	52.4		11.13

*Use this result.*





Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-18 D  
Client ID: TC-P4A-SS-04  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48, TO-15-SIM  
Analytical Date: 03/21/09 22:15  
Analyst: RY

Date Collected: 03/13/09 15:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.083	0.056	0.520	0.350		2.783
Trichloroethene	0.196	0.056	1.05	0.299		2.783
Vinyl chloride	0.059	0.056	0.151	0.142		2.783

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-19  
Client ID: TC-P4A-IA-04  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/21/09 00:32  
Analyst: RY

Date Collected: 03/13/09 14:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	8.27	0.200	38.2	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	<del>138</del>	<del>0.200</del>	<del>498</del>	<del>0.720</del>	<del>E</del>	<del>1</del>
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	14.8	0.200	43.6	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	11.4	0.500	26.9	1.19	J	1
Benzene	0.521	0.200	1.66	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

\* use result from diluted samples





Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-19  
Client ID: TC-P4A-IA-04  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 14:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.873	0.200	4.01	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	1.04	0.200	2.15	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	0.692	0.200	2.38	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.483	0.200	2.39	0.988		1
Ethanol	6.30	2.50	11.8	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	0.636	0.200	2.76	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	5.98	0.500	14.7	1.23		1
Methylene chloride	71.9	0.500	250	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	1.82	0.400	7.88	1.74		1
o-Xylene	0.500	0.200	2.17	0.868		1
Heptane	2.26	0.200	9.27	0.819		1
n-Hexane	1.21	0.200	4.25	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-19  
Client ID: TC-P4A-IA-04  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 14:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	1.00	0.200	3.78	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.276	0.200	1.55	1.12		1
Vinyl acetate	ND	0.200	ND	0.704		1
Vinyl bromide	ND	0.200	ND	0.874		1
Vinyl chloride	0.406	0.200	1.04	0.511		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-19  
Client ID: TC-P4A-IA-04  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/21/09 00:32  
Analyst: RY

Date Collected: 03/13/09 14:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.072	0.020	0.454	0.126		1
Trichloroethene	0.050	0.020	0.270	0.107		1
Vinyl chloride	0.406	0.020	1.04	0.051		1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-19 DR  
Client ID: TC-P4A-IA-04  
Sample Location: KINGSTON, NY  
Matrix: Air  
Analytical Method: 48,TO-15  
Analytical Date: 03/22/09 01:13  
Analyst: RY

Date Collected: 03/13/09 14:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,4-Dioxane	138	2.00	498	7.20		10

*use this result*

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-20  
**Client ID:** TC-P4A-OA-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 03/21/09 01:09  
**Analyst:** RY

**Date Collected:** 03/13/09 19:00  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.295	0.200	0.870	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	2.88	0.500	6.83	1.19		1
Benzene	0.208	0.200	0.663	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-20  
Client ID: TC-P4A-OA-01  
Sample Location: KINGSTON, NY

Date Collected: 03/13/09 19:00  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.549	0.200	1.13	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.472	0.200	2.33	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-20  
 Client ID: TC-P4A-OA-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/13/09 19:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.254	0.200	1.43	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

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-20  
 Client ID: TC-P4A-OA-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/21/09 01:09  
 Analyst: RY

Date Collected: 03/13/09 19:00  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.088	0.020	0.554	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-21 D  
 Client ID: TC-P4A-ASG-01  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 22:50  
 Analyst: RY

Date Collected: 03/16/09 18:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	12.1	ND	66.1		60.61
1,1,2,2-Tetrachloroethane	ND	12.1	ND	83.2		60.61
1,1,2-Trichloroethane	ND	12.1	ND	66.1		60.61
1,1-Dichloroethane	ND	12.1	ND	49.0		60.61
1,1-Dichloroethene	ND	12.1	ND	48.0		60.61
1,2,4-Trichlorobenzene	ND	12.1	ND	89.9		60.61
1,2,4-Trimethylbenzene	ND	12.1	ND	59.5		60.61
1,2-Dibromoethane	ND	12.1	ND	93.1		60.61
1,2-Dichlorobenzene	ND	12.1	ND	72.8		60.61
1,2-Dichloroethane	ND	12.1	ND	49.0		60.61
1,2-Dichloropropane	ND	12.1	ND	56.0		60.61
1,3,5-Trimethylbenzene	ND	12.1	ND	59.5		60.61
1,3-Butadiene	ND	12.1	ND	26.8		60.61
1,3-Dichlorobenzene	ND	12.1	ND	72.8		60.61
1,4-Dichlorobenzene	12.8	12.1	77.2	72.8		60.61
1,4-Dioxane	ND	12.1	ND	43.6		60.61
2,2,4-Trimethylpentane	ND	12.1	ND	56.6		60.61
2-Butanone	ND	12.1	ND	35.7		60.61
2-Hexanone	ND	12.1	ND	49.6		60.61
3-Chloropropene	ND	12.1	ND	37.9		60.61
4-Ethyltoluene	ND	12.1	ND	59.5		60.61
Acetone	407	30.3	967	71.9		60.61
Benzene	52.1	12.1	166	38.7		60.61
Benzyl chloride	ND	12.1	ND	62.7		60.61
Bromodichloromethane	ND	12.1	ND	81.2		60.61



**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-21 D  
 Client ID: TC-P4A-ASG-01  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:25  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	12.1	ND	125.		60.61
Bromomethane	ND	12.1	ND	47.0		60.61
Carbon disulfide	ND	12.1	ND	37.7		60.61
Carbon tetrachloride	ND	12.1	ND	76.2		60.61
Chlorobenzene	ND	12.1	ND	55.8		60.61
Chloroethane	ND	12.1	ND	32.0		60.61
Chloroform	ND	12.1	ND	59.1		60.61
Chloromethane	ND	12.1	ND	25.0		60.61
cis-1,2-Dichloroethene	ND	12.1	ND	48.0		60.61
cis-1,3-Dichloropropene	ND	12.1	ND	55.0		60.61
Cyclohexane	ND	12.1	ND	41.7		60.61
Dibromochloromethane	ND	12.1	ND	103.		60.61
Dichlorodifluoromethane	ND	12.1	ND	59.9		60.61
Ethanol	ND	152	ND	285		60.61
Ethyl Acetate	ND	30.3	ND	109.		60.61
Ethylbenzene	ND	12.1	ND	52.6		60.61
Freon-113	ND	12.1	ND	92.8		60.61
Freon-114	ND	12.1	ND	84.7		60.61
Hexachlorobutadiene	ND	12.1	ND	129.		60.61
Isopropanol	ND	30.3	ND	74.4		60.61
Methylene chloride	ND	30.3	ND	105		60.61
4-Methyl-2-pentanone	ND	12.1	ND	49.6		60.61
Methyl tert butyl ether	ND	12.1	ND	43.7		60.61
p/m-Xylene	ND	24.2	ND	105		60.61
o-Xylene	ND	12.1	ND	52.6	J	60.61
Heptane	ND	12.1	ND	49.6		60.61
n-Hexane	ND	12.1	ND	42.7		60.61
Propylene	ND	60.6	ND	104		60.61

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-21 D  
Client ID: TC-P4A-ASG-01  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:25  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	12.1	ND	51.6		60.61
Tetrachloroethene	ND	12.1	ND	82.1		60.61
Tetrahydrofuran	ND	12.1	ND	35.7		60.61
Toluene	5500	12.1	20700	45.6		60.61
trans-1,2-Dichloroethene	ND	12.1	ND	48.0		60.61
trans-1,3-Dichloropropene	ND	12.1	ND	55.0		60.61
Trichloroethene	ND	12.1	ND	65.1		60.61
Trichlorofluoromethane	ND	12.1	ND	68.0		60.61
Vinyl acetate	ND	12.1	ND	42.6		60.61
Vinyl bromide	ND	12.1	ND	53.0		60.61
Vinyl chloride	ND	12.1	ND	31.0		60.61

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-21 D  
Client ID: TC-P4A-ASG-01  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/21/09 22:50  
Analyst: RY

Date Collected: 03/16/09 18:25  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	1.21	ND	7.62		60.61
Trichloroethene	ND	1.21	ND	6.51		60.61
Vinyl chloride	ND	1.21	ND	3.10		60.61



Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-22 D3  
 Client ID: TC-P4A-ASG-02  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/27/09 00:42  
 Analyst: RY

Date Collected: 03/16/09 18:20  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	19.5	ND	106.		97.38
1,1,2,2-Tetrachloroethane	ND	19.5	ND	134.		97.38
1,1,2-Trichloroethane	ND	19.5	ND	106.		97.38
1,1-Dichloroethane	ND	19.5	ND	78.8		97.38
1,1-Dichloroethene	ND	19.5	ND	77.2		97.38
1,2,4-Trichlorobenzene	ND	19.5	ND	144.		97.38
1,2,4-Trimethylbenzene	ND	19.5	ND	95.7		97.38
1,2-Dibromoethane	ND	19.5	ND	150.		97.38
1,2-Dichlorobenzene	ND	19.5	ND	117.		97.38
1,2-Dichloroethane	ND	19.5	ND	78.8		97.38
1,2-Dichloropropane	ND	19.5	ND	89.9		97.38
1,3,5-Trimethylbenzene	ND	19.5	ND	95.7		97.38
1,3-Butadiene	ND	19.5	ND	43.0		97.38
1,3-Dichlorobenzene	ND	19.5	ND	117.		97.38
1,4-Dichlorobenzene	ND	19.5	ND	117.		97.38
1,4-Dioxane	ND	19.5	ND	70.1		97.38
2,2,4-Trimethylpentane	ND	19.5	ND	90.9		97.38
2-Butanone	ND	19.5	ND	57.4		97.38
2-Hexanone	ND	19.5	ND	79.7		97.38
3-Chloropropene	ND	19.5	ND	60.9		97.38
4-Ethyltoluene	ND	19.5	ND	95.7		97.38
Acetone	219	48.7	519	116		97.38
Benzene	ND	19.5	ND	62.2		97.38
Benzyl chloride	ND	19.5	ND	101.		97.38
Bromodichloromethane	ND	19.5	ND	130.		97.38





Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-22 D3  
Client ID: TC-P4A-ASG-02  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:20  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	19.5	ND	201.		97.38
Bromomethane	ND	19.5	ND	75.6		97.38
Carbon disulfide	ND	19.5	ND	60.6		97.38
Carbon tetrachloride	ND	19.5	ND	122.		97.38
Chlorobenzene	ND	19.5	ND	89.6		97.38
Chloroethane	ND	19.5	ND	51.4		97.38
Chloroform	ND	19.5	ND	95.0		97.38
Chloromethane	ND	19.5	ND	40.2		97.38
cis-1,2-Dichloroethene	ND	19.5	ND	77.2		97.38
cis-1,3-Dichloropropene	ND	19.5	ND	88.3		97.38
Cyclohexane	ND	19.5	ND	67.0		97.38
Dibromochloromethane	ND	19.5	ND	166.		97.38
Dichlorodifluoromethane	ND	19.5	ND	96.2		97.38
Ethanol	ND	243	ND	458		97.38
Ethyl Acetate	ND	48.7	ND	175.		97.38
Ethylbenzene	ND	19.5	ND	84.5		97.38
Freon-113	ND	19.5	ND	149.		97.38
Freon-114	ND	19.5	ND	136.		97.38
Hexachlorobutadiene	ND	19.5	ND	208.		97.38
Isopropanol	ND	48.7	ND	120.		97.38
Methylene chloride	ND	48.7	ND	169		97.38
4-Methyl-2-pentanone	ND	19.5	ND	79.7		97.38
Methyl tert butyl ether	ND	19.5	ND	70.2		97.38
p/m-Xylene	ND	39.0	ND	169		97.38
o-Xylene	ND	19.5	ND	84.5		97.38
Heptane	ND	19.5	ND	79.8		97.38
n-Hexane	ND	19.5	ND	68.6		97.38
Propylene	ND	97.4	ND	167		97.38



**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-22 D3  
**Client ID:** TC-P4A-ASG-02  
**Sample Location:** KINGSTON, NY

**Date Collected:** 03/16/09 18:20  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	19.5	ND	82.9		97.38
Tetrachloroethene	ND	19.5	ND	132		97.38
Tetrahydrofuran	ND	19.5	ND	57.4		97.38
Toluene	4740	19.5	17800	73.3		97.38
trans-1,2-Dichloroethene	ND	19.5	ND	77.2		97.38
trans-1,3-Dichloropropene	ND	19.5	ND	88.3		97.38
Trichloroethene	ND	19.5	ND	104.		97.38
Trichlorofluoromethane	ND	19.5	ND	109.		97.38
Vinyl acetate	ND	19.5	ND	68.5		97.38
Vinyl bromide	ND	19.5	ND	85.1		97.38
Vinyl chloride	ND	19.5	ND	49.7		97.38

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-22 D  
**Client ID:** TC-P4A-ASG-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 23:25  
**Analyst:** RY

**Date Collected:** 03/16/09 18:20  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	1.19	ND	7.50		59.64
Trichloroethene	ND	1.19	ND	6.40		59.64
Vinyl chloride	ND	1.19	ND	3.05		59.64





Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-23 D  
 Client ID: TC-P4A-ASG-03  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/22/09 00:02  
 Analyst: RY

Date Collected: 03/16/09 17:30  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.489	ND	2.66		2.444
1,1,2,2-Tetrachloroethane	ND	0.489	ND	3.35		2.444
1,1,2-Trichloroethane	ND	0.489	ND	2.66		2.444
1,1-Dichloroethane	ND	0.489	ND	1.98		2.444
1,1-Dichloroethene	ND	0.489	ND	1.94		2.444
1,2,4-Trichlorobenzene	ND	0.489	ND	3.62		2.444
1,2,4-Trimethylbenzene	1.07	0.489	5.28	2.40		2.444
1,2-Dibromoethane	ND	0.489	ND	3.75		2.444
1,2-Dichlorobenzene	ND	0.489	ND	2.94		2.444
1,2-Dichloroethane	ND	0.489	ND	1.98		2.444
1,2-Dichloropropane	ND	0.489	ND	2.26		2.444
1,3,5-Trimethylbenzene	ND	0.489	ND	2.40		2.444
1,3-Butadiene	ND	0.489	ND	1.08		2.444
1,3-Dichlorobenzene	ND	0.489	ND	2.94		2.444
1,4-Dichlorobenzene	3.23	0.489	19.4	2.94		2.444
1,4-Dioxane	ND	0.489	ND	1.76		2.444
2,2,4-Trimethylpentane	ND	0.489	ND	2.28		2.444
2-Butanone	10.2	0.489	30.1	1.44		2.444
2-Hexanone	1.54	0.489	6.32	2.00		2.444
3-Chloropropene	ND	0.489	ND	1.53		2.444
4-Ethyltoluene	ND	0.489	ND	2.40		2.444
Acetone	228	1.22	542	2.90		2.444
Benzene	0.731	0.489	2.33	1.56		2.444
Benzyl chloride	ND	0.489	ND	2.53		2.444
Bromodichloromethane	ND	0.489	ND	3.27		2.444

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-23 D  
Client ID: TC-P4A-ASG-03  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 17:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.489	ND	5.05		2.444
Bromomethane	ND	0.489	ND	1.90		2.444
Carbon disulfide	3.35	0.489	10.4	1.52		2.444
Carbon tetrachloride	ND	0.489	ND	3.07		2.444
Chlorobenzene	ND	0.489	ND	2.25		2.444
Chloroethane	ND	0.489	ND	1.29		2.444
Chloroform	ND	0.489	ND	2.38		2.444
Chloromethane	ND	0.489	ND	1.01		2.444
cis-1,2-Dichloroethene	ND	0.489	ND	1.94		2.444
cis-1,3-Dichloropropene	ND	0.489	ND	2.22		2.444
Cyclohexane	ND	0.489	ND	1.68		2.444
Dibromochloromethane	ND	0.489	ND	4.16		2.444
Dichlorodifluoromethane	ND	0.489	ND	2.42		2.444
Ethanol	6.18	6.11	11.6	11.5		2.444
Ethyl Acetate	ND	1.22	ND	4.40		2.444
Ethylbenzene	1.62	0.489	7.04	2.12		2.444
Freon-113	ND	0.489	ND	3.74		2.444
Freon-114	ND	0.489	ND	3.41		2.444
Hexachlorobutadiene	ND	0.489	ND	5.21		2.444
Isopropanol	<del>ND</del>	<del>1.22</del>	<del>ND</del>	<del>3.00</del>	R	2.444
Methylene chloride	1.31	1.22	4.54	4.24		2.444
4-Methyl-2-pentanone	1.09	0.489	4.45	2.00		2.444
Methyl tert butyl ether	ND	0.489	ND	1.76		2.444
p/m-Xylene	5.36	0.978	23.3	4.24		2.444
o-Xylene	1.94	0.489	8.43	2.12	J	2.444
Heptane	1.46	0.489	5.98	2.00		2.444
n-Hexane	0.866	0.489	3.05	1.72		2.444
Propylene	7.02	2.44	12.1	4.20	J	2.444

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-23 D  
Client ID: TC-P4A-ASG-03  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 17:30  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.489	ND	2.08		2.444
Tetrachloroethene	0.894	0.489	6.06	3.31		2.444
Tetrahydrofuran	ND	0.489	ND	1.44		2.444
Toluene	6.64	0.489	25.0	1.84		2.444
trans-1,2-Dichloroethene	ND	0.489	ND	1.94		2.444
trans-1,3-Dichloropropene	ND	0.489	ND	2.22		2.444
Trichloroethene	ND	0.489	ND	2.62		2.444
Trichlorofluoromethane	ND	0.489	ND	2.74		2.444
Vinyl acetate	ND	0.489	ND	1.72		2.444
Vinyl bromide	ND	0.489	ND	2.14		2.444
Vinyl chloride	ND	0.489	ND	1.25		2.444

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-23 D  
**Client ID:** TC-P4A-ASG-03  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/22/09 00:02  
**Analyst:** RY

**Date Collected:** 03/16/09 17:30  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.049	ND	0.307		2.444
Trichloroethene	ND	0.049	ND	0.262		2.444
Vinyl chloride	ND	0.049	ND	0.125		2.444

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-24 D  
Client ID: TC-P4A-ASG-04  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15  
Analytical Date: 03/22/09 00:38  
Analyst: RY

Date Collected: 03/16/09 18:35  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	2.40	ND	13.1		12.02
1,1,2,2-Tetrachloroethane	ND	2.40	ND	16.5		12.02
1,1,2-Trichloroethane	ND	2.40	ND	13.1		12.02
1,1-Dichloroethane	ND	2.40	ND	9.72		12.02
1,1-Dichloroethene	ND	2.40	ND	9.52		12.02
1,2,4-Trichlorobenzene	ND	2.40	ND	17.8		12.02
1,2,4-Trimethylbenzene	ND	2.40	ND	11.8		12.02
1,2-Dibromoethane	ND	2.40	ND	18.4		12.02
1,2-Dichlorobenzene	ND	2.40	ND	14.4		12.02
1,2-Dichloroethane	ND	2.40	ND	9.72		12.02
1,2-Dichloropropane	ND	2.40	ND	11.1		12.02
1,3,5-Trimethylbenzene	ND	2.40	ND	11.8		12.02
1,3-Butadiene	ND	2.40	ND	5.31		12.02
1,3-Dichlorobenzene	ND	2.40	ND	14.4		12.02
1,4-Dichlorobenzene	3.74	2.40	22.4	14.4		12.02
1,4-Dioxane	ND	2.40	ND	8.66		12.02
2,2,4-Trimethylpentane	ND	2.40	ND	11.2		12.02
2-Butanone	26.4	2.40	77.7	7.08		12.02
2-Hexanone	3.04	2.40	12.4	9.84		12.02
3-Chloropropene	ND	2.40	ND	7.52		12.02
4-Ethyltoluene	ND	2.40	ND	11.8		12.02
Acetone	832	6.01	1980	14.3		12.02
Benzene	4.49	2.40	14.3	7.67		12.02
Benzyl chloride	ND	2.40	ND	12.4		12.02
Bromodichloromethane	ND	2.40	ND	16.1		12.02





Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-24 D  
Client ID: TC-P4A-ASG-04  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:35  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	2.40	ND	24.8		12.02
Bromomethane	ND	2.40	ND	9.33		12.02
Carbon disulfide	7.68	2.40	23.9	7.48		12.02
Carbon tetrachloride	ND	2.40	ND	15.1		12.02
Chlorobenzene	ND	2.40	ND	11.0		12.02
Chloroethane	ND	2.40	ND	6.34		12.02
Chloroform	ND	2.40	ND	11.7		12.02
Chloromethane	ND	2.40	ND	4.96		12.02
cis-1,2-Dichloroethene	ND	2.40	ND	9.52		12.02
cis-1,3-Dichloropropene	ND	2.40	ND	10.9		12.02
Cyclohexane	ND	2.40	ND	8.27		12.02
Dibromochloromethane	ND	2.40	ND	20.5		12.02
Dichlorodifluoromethane	ND	2.40	ND	11.9		12.02
Ethanol	ND	30.0	ND	56.6		12.02
Ethyl Acetate	ND	6.01	ND	21.6		12.02
Ethylbenzene	ND	2.40	ND	10.4		12.02
Freon-113	ND	2.40	ND	18.4		12.02
Freon-114	ND	2.40	ND	16.8		12.02
Hexachlorobutadiene	ND	2.40	ND	25.6		12.02
Isopropanol	ND	6.01	ND	14.8	R	12.02
Methylene chloride	ND	6.01	ND	20.8		12.02
4-Methyl-2-pentanone	ND	2.40	ND	9.84		12.02
Methyl tert butyl ether	ND	2.40	ND	8.66		12.02
p/m-Xylene	5.51	4.81	23.9	20.9		12.02
o-Xylene	ND	2.40	ND	10.4	J	12.02
Heptane	2.75	2.40	11.2	9.84		12.02
n-Hexane	ND	2.40	ND	8.47		12.02
Propylene	23.7	12.0	40.8	20.7		12.02

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-24 D  
Client ID: TC-P4A-ASG-04  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:35  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	2.40	ND	10.2		12.02
Tetrachloroethene	ND	2.40	ND	16.3		12.02
Tetrahydrofuran	ND	2.40	ND	7.08		12.02
Toluene	338	2.40	1270	9.05		12.02
trans-1,2-Dichloroethene	ND	2.40	ND	9.52		12.02
trans-1,3-Dichloropropene	ND	2.40	ND	10.9		12.02
Trichloroethene	ND	2.40	ND	12.9		12.02
Trichlorofluoromethane	ND	2.40	ND	13.5		12.02
Vinyl acetate	ND	2.40	ND	8.46		12.02
Vinyl bromide	ND	2.40	ND	10.5		12.02
Vinyl chloride	ND	2.40	ND	6.14		12.02

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-24 D  
Client ID: TC-P4A-ASG-04  
Sample Location: KINGSTON, NY  
Matrix: Soil\_Vapor  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 03/22/09 00:38  
Analyst: RY

Date Collected: 03/16/09 18:35  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	ND	0.240	ND	1.51		12.02
Trichloroethene	ND	0.240	ND	1.29		12.02
Vinyl chloride	ND	0.240	ND	0.614		12.02



**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-25  
 Client ID: TC-P4A-OA-02  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 01:46  
 Analyst: RY

Date Collected: 03/16/09 18:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.388	0.200	1.14	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	2.32	0.500	5.52	1.19	J	1
Benzene	0.274	0.200	0.875	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-25  
 Client ID: TC-P4A-OA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.526	0.200	1.08	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.444	0.200	2.19	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-25  
 Client ID: TC-P4A-OA-02  
 Sample Location: KINGSTON, NY

Date Collected: 03/16/09 18:50  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.234	0.200	1.31	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

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-25  
**Client ID:** TC-P4A-OA-02  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 01:46  
**Analyst:** RY

**Date Collected:** 03/16/09 18:50  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.091	0.020	0.569	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1

Project Name: TECH CITY

Lab Number: L0903165

Project Number: 0096812

Report Date: 03/27/09

## SAMPLE RESULTS

Lab ID: L0903165-26  
 Client ID: TC-DUP-01  
 Sample Location: KINGSTON, NY  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/21/09 02:23  
 Analyst: RY

Date Collected: 03/16/09 07:45  
 Date Received: 03/17/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.356	0.200	1.05	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	3.42	0.500	8.11	1.19	J	1
Benzene	0.269	0.200	0.860	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-26  
Client ID: TC-DUP-01  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 07:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	ND	0.200	ND	0.622		1
Carbon tetrachloride	ND	0.200	ND	1.26		1
Chlorobenzene	ND	0.200	ND	0.920		1
Chloroethane	ND	0.200	ND	0.527		1
Chloroform	ND	0.200	ND	0.976		1
Chloromethane	0.500	0.200	1.03	0.413		1
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Cyclohexane	ND	0.200	ND	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.465	0.200	2.30	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
Heptane	ND	0.200	ND	0.819		1
n-Hexane	ND	0.200	ND	0.704		1
Propylene	ND	1.00	ND	1.72	J	1

Project Name: TECH CITY  
Project Number: 0096812

Lab Number: L0903165  
Report Date: 03/27/09

### SAMPLE RESULTS

Lab ID: L0903165-26  
Client ID: TC-DUP-01  
Sample Location: KINGSTON, NY

Date Collected: 03/16/09 07:45  
Date Received: 03/17/09  
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
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	0.223	0.200	0.840	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.229	0.200	1.28	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

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0903165  
**Report Date:** 03/27/09

### SAMPLE RESULTS

**Lab ID:** L0903165-26  
**Client ID:** TC-DUP-01  
**Sample Location:** KINGSTON, NY  
**Matrix:** Air  
**Analytical Method:** 48,TO-15-SIM  
**Analytical Date:** 03/21/09 02:23  
**Analyst:** RY

**Date Collected:** 03/16/09 07:45  
**Date Received:** 03/17/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.092	0.020	0.578	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1





## ANALYTICAL REPORT

Lab Number:	L0906995
Client:	ERM, Inc. 5788 Wide Waters Parkway Dewitt, NY 13214
ATTN:	Kris Perritt
Project Name:	TECH CITY
Project Number:	0096812
Report Date:	06/08/09

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:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0906995  
**Report Date:** 06/08/09

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L0906995-01	TC-P4A-SS-02A(5/09)	KINGSTON, NY	05/28/09 15:15

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0906995  
**Report Date:** 06/08/09

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

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#### Volatile Organics in Air (Low Level)

L0906995-01 and WG365201-4: The results for Acetone should be considered estimated due to co-elution with a non-target peak. The presence of 2,2,4-Trimethylpentane could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

The WG365201-2 LCS recoveries for 1,2,4-Trichlorobenzene (131%), 1,2-Dichloro-1,1,2,2-tetrafluoroethane (131%), n-Hexane (56%) and trans-1,3-Dichloropropene (57%) 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: 06/08/09

**AIR**

Project Name: TECH CITY

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

## SAMPLE RESULTS

Lab ID: L0906995-01  
 Client ID: TC-P4A-SS-02A(5/09)  
 Sample Location: KINGSTON, NY  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 06/03/09 22:22  
 Analyst: AJ

Date Collected: 05/28/09 15:15  
 Date Received: 06/01/09  
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
1,1,1-Trichloroethane	0.719	0.200	3.92	1.09		1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		1
1,1,2-Trichloroethane	ND	0.200	ND	1.09		1
1,1-Dichloroethane	ND	0.200	ND	0.809		1
1,1-Dichloroethene	ND	0.200	ND	0.792		1
1,2,4-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	0.299	0.200	1.08	0.720		1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934		1
2-Butanone	3.82	0.200	11.3	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	46.9	0.500	111	1.19		1
Benzene	1.45	0.200	4.63	0.638		1
Benzyl chloride	ND	0.200	ND	1.03		1
Bromodichloromethane	ND	0.200	ND	1.34		1



Project Name: TECH CITY

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

## SAMPLE RESULTS

Lab ID: L0906995-01

Date Collected: 05/28/09 15:15

Client ID: TC-P4A-SS-02A(5/09)

Date Received: 06/01/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Bromoform	ND	0.200	ND	2.06		1
Bromomethane	ND	0.200	ND	0.776		1
Carbon disulfide	1.49	0.200	4.63	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	0.343	0.200	1.18	0.688		1
Dibromochloromethane	ND	0.200	ND	1.70		1
Dichlorodifluoromethane	0.602	0.200	2.98	0.988		1
Ethanol	16.8	2.50	31.5	4.71		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	0.565	0.200	2.45	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	13.8	0.500	34.0	1.23		1
Methylene chloride	0.873	0.500	3.03	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	0.340	0.200	1.47	0.868		1
Heptane	5.50	0.200	22.5	0.819		1
n-Hexane	1.12	0.200	3.94	0.704		1
Propylene	ND	0.200	ND	0.344		1



Project Name: TECH CITY

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

## SAMPLE RESULTS

Lab ID: L0906995-01

Date Collected: 05/28/09 15:15

Client ID: TC-P4A-SS-02A(5/09)

Date Received: 06/01/09

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Styrene	ND	0.200	ND	0.851		1
Tetrachloroethene	ND	0.200	ND	1.36		1
Tetrahydrofuran	0.721	0.200	2.12	0.589		1
Toluene	14.3	0.200	53.7	0.753		1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		1
Trichloroethene	ND	0.200	ND	1.07		1
Trichlorofluoromethane	0.592	0.200	3.32	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



**Project Name:** TECH CITY**Lab Number:** L0906995**Project Number:** 0096812**Report Date:** 06/08/09**SAMPLE RESULTS**

**Lab ID:** L0906995-01  
**Client ID:** TC-P4A-SS-02A(5/09)  
**Sample Location:** KINGSTON, NY  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15-SIM  
**Analytical Date:** 06/03/09 22:22  
**Analyst:** AJ

**Date Collected:** 05/28/09 15:15  
**Date Received:** 06/01/09  
**Field Prep:** Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Carbon tetrachloride	0.055	0.020	0.343	0.126		1
Trichloroethene	0.105	0.020	0.562	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1





Project Name: TECH CITY

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/03/09 16:38

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG365201-3						
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: TECH CITY

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/03/09 16:38

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG365201-3						
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: TECH CITY

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/03/09 16:38

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG365201-3						
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

Project Name: TECH CITY

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/03/09 16:38

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG365203-3						
Carbon tetrachloride	ND	0.020	ND	0.126		1
Trichloroethene	ND	0.020	ND	0.107		1
Vinyl chloride	ND	0.020	ND	0.051		1



## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0906995

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG365201-2					
1,1,1-Trichloroethane	70	-	70-130	-	
1,1,2,2-Tetrachloroethane	102	-	70-130	-	
1,1,2-Trichloroethane	82	-	70-130	-	
1,1-Dichloroethane	113	-	70-130	-	
1,1-Dichloroethene	114	-	70-130	-	
1,2,4-Trichlorobenzene	131	-	70-130	-	
1,2,4-Trimethylbenzene	106	-	70-130	-	
1,2-Dibromoethane	78	-	70-130	-	
1,2-Dichlorobenzene	111	-	70-130	-	
1,2-Dichloroethane	105	-	70-130	-	
1,2-Dichloropropane	78	-	70-130	-	
1,3,5-Trimethylbenzene	106	-	70-130	-	
1,3-Butadiene	101	-	70-130	-	
1,3-Dichlorobenzene	112	-	70-130	-	
1,4-Dichlorobenzene	110	-	70-130	-	
1,4-Dioxane	92	-	70-130	-	
2,2,4-Trimethylpentane	72	-	70-130	-	
2-Butanone	111	-	70-130	-	
2-Hexanone	77	-	70-130	-	
3-Chloropropene	97	-	70-130	-	
4-Ethyltoluene	103	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0906995

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG365201-2					
Acetone	115	-	70-130	-	
Benzene	81	-	70-130	-	
Benzyl chloride	82	-	70-130	-	
Bromodichloromethane	71	-	70-130	-	
Bromoform	86	-	70-130	-	
Bromomethane	103	-	70-130	-	
Carbon disulfide	104	-	70-130	-	
Carbon tetrachloride	80	-	70-130	-	
Chlorobenzene	101	-	70-130	-	
Chloroethane	105	-	70-130	-	
Chloroform	98	-	70-130	-	
Chloromethane	114	-	70-130	-	
cis-1,2-Dichloroethene	96	-	70-130	-	
cis-1,3-Dichloropropene	70	-	70-130	-	
Cyclohexane	75	-	70-130	-	
Dibromochloromethane	73	-	70-130	-	
Dichlorodifluoromethane	114	-	70-130	-	
Ethyl Alcohol	114	-	70-130	-	
Ethyl Acetate	107	-	70-130	-	
Ethylbenzene	103	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	117	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0906995

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG365201-2					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	131	-	70-130	-	
Hexachlorobutadiene	125	-	70-130	-	
iso-Propyl Alcohol	116	-	70-130	-	
Methylene chloride	100	-	70-130	-	
4-Methyl-2-pentanone	82	-	70-130	-	
Methyl tert butyl ether	126	-	70-130	-	
p/m-Xylene	102	-	70-130	-	
o-Xylene	106	-	70-130	-	
Heptane	72	-	70-130	-	
n-Hexane	56	-	70-130	-	
Propylene	100	-	70-130	-	
Styrene	106	-	70-130	-	
Tetrachloroethene	104	-	70-130	-	
Tetrahydrofuran	110	-	70-130	-	
Toluene	80	-	70-130	-	
trans-1,2-Dichloroethene	112	-	70-130	-	
trans-1,3-Dichloropropene	57	-	70-130	-	
Trichloroethene	85	-	70-130	-	
Trichlorofluoromethane	120	-	70-130	-	
Vinyl acetate	90	-	70-130	-	
Vinyl bromide	114	-	70-130	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0906995

Report Date: 06/08/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG365201-2					
Vinyl chloride	116	-	70-130	-	

Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG365203-2					
Carbon tetrachloride	76	-	70-130	-	
Trichloroethene	89	-	70-130	-	
Vinyl chloride	98	-	70-130	-	



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0906995  
**Report Date:** 06/08/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG365201-4 QC Sample: L0906995-01 Client ID: TC-P4A-SS-02A(5/09)					
1,1,1-Trichloroethane	0.719	0.682	ppbV	5	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-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	0.299	0.256	ppbV	15	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
2-Butanone	3.82	3.92	ppbV	3	25
2-Hexanone	ND	ND	ppbV	NC	25

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0906995  
**Report Date:** 06/08/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG365201-4 QC Sample: L0906995-01 Client ID: TC-P4A-SS-02A(5/09)					
3-Chloropropene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	46.9	49.8	ppbV	6	25
Benzene	1.45	1.64	ppbV	12	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	1.49	1.52	ppbV	2	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	0.343	0.344	ppbV	0	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.602	0.591	ppbV	2	25

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0906995  
**Report Date:** 06/08/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG365201-4 QC Sample: L0906995-01 Client ID: TC-P4A-SS-02A(5/09)					
Ethanol	16.8	17.2	ppbV	2	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Ethylbenzene	0.565	0.570	ppbV	1	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Isopropanol	13.8	14.0	ppbV	1	25
Methylene chloride	0.873	0.878	ppbV	1	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	1.55	1.52	ppbV	2	25
o-Xylene	0.340	0.340	ppbV	0	25
Heptane	5.50	5.08	ppbV	8	25
n-Hexane	1.12	1.03	ppbV	8	25
Propylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Tetrahydrofuran	0.721	0.709	ppbV	2	25
Toluene	14.3	14.0	ppbV	2	25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: TECH CITY

Project Number: 0096812

Lab Number: L0906995

Report Date: 06/08/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG365201-4 QC Sample: L0906995-01 Client ID: TC-P4A-SS-02A(5/09)</b>					
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	0.592	0.585	ppbV	1	25
Vinyl acetate	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25
<b>Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG365203-4 QC Sample: L0906995-01 Client ID: TC-P4A-SS-02A(5/09)</b>					
Carbon tetrachloride	0.055	0.054	ppbV	0	25
Trichloroethene	0.105	0.101	ppbV	4	25
Vinyl chloride	ND	ND	ppbV	NC	25

Project Name: TECH CITY

06080913:18

Lab Number: L0906995

Project Number: 0096812

Report Date: 06/08/09

### 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
L0906995-01	TC-P4A-SS-02A(5/09)	0047	#20 SV		-	-	19.6	23.3	17
L0906995-01	TC-P4A-SS-02A(5/09)	134	2.7L Can	I0904958	-29.4	-2.8	-	-	-



**Project Name:** TECH CITY**Lab Number:** L0906995**Project Number:** 0096812**Report Date:** 06/08/09**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
N/A	Present/Intact

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0906995-01A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)

\*Hold days indicated by values in parentheses

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0906995  
**Report Date:** 06/08/09

## 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.
- LCS D** - 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.
- MS D** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND** - Not detected at the reported detection limit for the sample.
- NI** - Not Ignitable.
- RDL** - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- \*** - The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- N** - The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

**Project Name:** TECH CITY  
**Project Number:** 0096812

**Lab Number:** L0906995  
**Report Date:** 06/08/09

## 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 May 22, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### **Connecticut Department of Public Health Certificate/Lab ID: PH-0141.**

*Wastewater/Non-Potable Water* (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, 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, 4500NH3-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.)

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

*Non-Potable Water* (Organic Parameters: EPA 5030B, EPA 8260)

**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.)

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

# AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL  
CHAIN OF CUSTODY

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

### Project Information

Project Name: Teddy City

Project Location: Kingston, NY

Project #: 096812

Project Manager: Kris Perritt

ALPHA Quote #:

### Turn-Around Time

Standard

RUSH (only confirmed if pre-approved)

Date Due:

Time:

Client: ERM

Address: 5788 Wickwates New Bedford, NY 13814

Phone: 315 445-2554

Fax: 445-2543

Email: Kris.Perritt@erm.com

Other Project Specific Requirements/Comments: Need 0.25 ug/m3 detection limit

### Report Information - Data Deliverables

Date Rec'd in Lab:

FAX Category B

DADEX Deliverable

Criteria Checker: Deliverable

Other Formats:

EMAIL (standard pdf report)

Additional Deliverables:

Report To: (if different than Project Manager)

### ALPHA Job #: 20906995

Billing Information

Same as Client info

PO #:

### Regulatory Requirements/Report Limits

State/Fed

Program

Criteria

### All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Vacuum							
	TC-14A-SS-02A(5/09)5/10/09	1340	1515	29.4	-3	SV	JE	2.71	134	0047	X	PID = 0.0 ppm

\*SAMPLE MATRIX CODES  
AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Received By: S. Perritt  
Container Type: CS

Relinquished By: ERM Date/Time: 4/1/09 09:30  
Date/Time: 4/1/09 09:30  
Received By: S. Perritt  
Date/Time: 4/1/09 09:30  
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.

**DATA USABILITY SUMMARY REPORT (DUSR)  
TECHCITY PROPERTIES INC.  
KINGSTON, NEW YORK  
VAPOR INTRUSION SAMPLING  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
PROJECT NUMBER 0096812  
ALPHA ANALYTICAL LAB NUMBER L0906995**

***Deliverables:***

The above referenced data package for one (1) air sample contains all the required deliverables as stipulated under the 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B deliverables. The sample was analyzed following “*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition 1997, EPA/625/R-96/010B*”, Compendium Method TO-15, “*Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)*”. The data have been evaluated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region 2 Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 4, October 2006: Validating Volatile Organic Analysis of Ambient Air in canister by Method TO-15, and the reviewer's professional judgment.

This report pertains to the following air sample collected on 28 May 2009:

Sample ID

TC-P4A-SS-02A

The following items/criteria were reviewed:

- Case narrative and deliverable compliance
- Chain-of-Custody (COC)
- Holding times
- Canister Certification/Pressures
- Method blank summary and data
- Laboratory Duplicate Sample recoveries, summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance

- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Sample Results (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/reporting limits
- Qualitative and quantitative compound identification

The items listed above were in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- The Chains-of-Custody (COCs) were reviewed for completeness and accuracy. The following were noted:

Selective Ion Monitoring (SIM) analysis was requested and performed for carbon tetrachloride, trichloroethene, and vinyl chloride to achieve lower reporting limits ( $0.25 \mu\text{g}/\text{m}^3$ ). These compounds were also reported by the laboratory on their Form Is from the standard analysis. Results for these compounds are to be utilized from the SIM analysis.

There were no other discrepancies observed with the samples presented on the COC, and all other tests specified on the COC were performed for the designated samples.

- The result for acetone is considered estimated due to a co-elution with a non-target compound as detailed in the laboratory's case narrative. Acetone was positively identified and therefore has been qualified "J".
- The presence of 2,2,4-trimethylpentane could not be determined due to an interference with this compound as detailed in the laboratory's case narrative. Results for 2,2,4-trimethylpentane has been rejected and qualified with an "R".
- The percent recovery (%R) for 1,2,4-trichlorobenzene (131%), Freon 114 (131%), trans-1,3-dichloropropene (57%), and n-hexane (56%) were outside QC criteria in LCS (QC limit 70-130%). Results for 1,2,4-trichlorobenzene and Freon 114 may possibly be biased high while conversely results for n-hexane and trans-1,3-dichloropropene may possibly be biased low. No qualification of the sample is required for 1,2,4-trichlorobenzene

or Freon 114 as these compounds were not positively identified. The result for n-hexane has been qualified "J" and the non-detect result for trans-1,3-dichloropropene has been qualified "UJ". It should be noted that the laboratory reports non-detects as ND therefore the result for trans-1,3-dichloropropene has been qualified "ND J".

*Package Summary:*

All data are valid and usable with qualifications as noted in this review.



Signed:

\_\_\_\_\_  
Andrew J. Coenen  
ERM QA Officer

Dated: 5 July 2009

06080913:18  
 Lab Number: L0906995  
 Report Date: 06/08/09

Project Name: TECH CITY  
 Project Number: 0096812

Lab ID: L0906995-01  
 Client ID: TC-P4A-SS-02A(5/09)  
 Sample Location: KINGSTON, NY  
 Matrix: Soil Vapor  
 Analytical Method: 48.TC-15  
 Analytical Date: 06/03/09 22:22  
 Analyst: AJ

Date Collected: 05/28/09 15:15  
 Date Received: 06/01/09  
 Field Prep: Not Specified

SAMPLE RESULTS

Parameter	ppbv		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air (Low Level) - Mansfield Lab					
1,1,1-Trichloroethane	0.719	0.200	3.92	1.09	1
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37	1
1,1,2-Trichloroethane	ND	0.200	ND	1.09	1
1,1-Dichloroethane	ND	0.200	ND	0.809	1
1,1-Dichloroethene	ND	0.200	ND	0.792	1
1,2,4-Trichlorobenzene	ND	0.200	ND	1.46	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-Buladiene	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	0.299	0.200	1.08	0.720	1
2,2,4-Trimethylpentane	ND	0.200	ND	0.934	1
2-Bulacene	3.82	0.200	11.3	0.589	1
2-Hexanone	ND	0.200	ND	0.619	1
3-Chloropropene	ND	0.200	ND	0.626	1
4-Ethyltoluene	ND	0.200	ND	0.982	1
Acetone	45.9	0.500	111	1.19	1
Benzene	1.45	0.200	4.63	0.638	1
Benzyl chloride	ND	0.200	ND	1.03	1
Bromochloroethane	ND	0.200	ND	1.34	1



06080913:18  
 Lab Number: L0906995  
 Report Date: 06/08/09

Project Name: TECH CITY  
 Project Number: 0096812

Lab ID: L0906995-01  
 Client ID: TC-P4A-SS-02A(5/09)  
 Sample Location: KINGSTON, NY

Date Collected: 05/28/09 15:15  
 Date Received: 06/01/09  
 Field Prep: Not Specified

SAMPLE RESULTS

Parameter	ppbv		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air (Low Level) - Mansfield Lab					
Bromolorm	ND	0.200	ND	2.06	1
Bromomethane	ND	0.200	ND	0.776	1
Carbon disulfide	1.49	0.200	4.63	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-Dichloroethane	ND	0.200	ND	0.792	1
cis-1,3-Dichloropropene	ND	0.200	ND	0.907	1
Cyclohexane	0.343	0.200	1.18	0.668	1
Dibromochloromethane	ND	0.200	ND	1.70	1
Dichlorodifluoromethane	0.502	0.200	2.98	0.988	1
Ethanol	16.8	2.50	31.5	4.71	1
Ethyl Acetate	ND	0.500	ND	1.80	1
Ethylbenzene	0.565	0.200	2.45	0.868	1
Freon-113	ND	0.200	ND	1.53	1
Freon-114	ND	0.200	ND	1.40	1
Heptachlorobutadiene	ND	0.200	ND	2.13	1
Isopropenol	13.8	0.500	34.0	1.23	1
Methylcyclohexane	0.873	0.500	3.03	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	0.340	0.200	1.47	0.668	1
Heptane	5.50	0.200	22.5	0.819	1
n-Hexane	1.12	0.200	3.94	0.704	1
Propylene	ND	0.200	ND	0.344	1



06080913:18  
 Project Name: TECH CITY  
 Lab Number: L0906995  
 Project Number: 0096812  
 Report Date: 06/08/09

SAMPLE RESULTS

Lab ID: L0906995-01  
 Client ID: TC-P4A-SS-02A(5/09)  
 Sample Location: KINGSTON, NY  
 Date Collected: 05/28/09 15:15  
 Date Received: 06/01/09  
 Field Prep: Not Specified

Parameter	ppbv		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air (Low Level) - Mansfield Lab					
Styrene	ND	0.200	ND	0.851	1
Tetrachloroethene	ND	0.200	ND	1.36	1
Tetrahydrofuran	0.721	0.200	2.12	0.599	1
Toluene	14.3	0.200	53.7	0.753	1
trans-1,2-Dichloroethene	ND	0.200	ND	0.792	1
trans-1,3-Dichloropropene	ND	0.200	ND	0.907	1
Trichloroethene	ND	0.200	ND	1.07	1
Trichlorofluoromethane	0.592	0.200	3.32	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



06080913:18  
 Project Name: TECH CITY  
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 Project Number: 0096812  
 Report Date: 06/08/09

SAMPLE RESULTS

Lab ID: L0906995-01  
 Client ID: TC-P4A-SS-02A(5/09)  
 Sample Location: KINGSTON, NY  
 Matrix: Soil Vapor  
 Analytical Method: 48,TC-15-SIM  
 Analytical Date: 06/03/09 22:22  
 Analyst: AJ  
 Date Collected: 05/28/09 15:15  
 Date Received: 06/01/09  
 Field Prep: Not Specified

Parameter	ppbv		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air by SIM - Mansfield Lab					
Carbon tetrachloride	0.055	0.020	0.343	0.126	1
Trichloroethene	0.105	0.020	0.562	0.107	1
Vinyl chloride	ND	0.020	ND	0.051	1





*APPENDIX I*

*Manhole MH-2 Ground Water Investigation  
Data*

**APPENDIX I  
PRESSURE TRANSDUCER DATA - DAILY SUMMARY  
TECHCITY FACILITY - KINGSTON, NEW YORK  
NYSDEC SITE NUMBER 35154-00067-00090  
ERM PROJECT NUMBER 0096812**

Measuring Point	Change in water level relative to original measured level.		
	173S	174S	MH 2
Time			
10:25:20 AM	0.01	0.00	0.00
10:40:20 AM	0.01	0.00	0.00
10:55:20 AM	0.01	-0.01	-0.01
11:10:20 AM	0.00	-0.02	-0.03
11:25:20 AM	0.00	-0.02	-0.02
11:40:20 AM	0.00	-0.02	-0.02
11:55:20 AM	-0.01	-0.04	-0.03
12:10:20 PM	-0.01	-0.03	-0.04
12:25:20 PM	-0.02	-0.05	-0.06
12:40:20 PM	-0.02	-0.05	-0.06
12:55:20 PM	-0.01	-0.05	-0.05
1:10:20 PM	-0.03	-0.06	-0.07
1:25:20 PM	-0.04	-0.06	-0.06
1:40:20 PM	-0.05	-0.06	-0.06
1:55:20 PM	-0.05	-0.07	-0.07
2:10:20 PM	-0.05	-0.08	-0.09
2:25:20 PM	-0.04	-0.07	-0.08
2:40:20 PM	-0.04	-0.07	-0.08
2:55:20 PM	-0.05	-0.08	-0.07
3:10:20 PM	-0.06	-0.08	-0.09
3:25:20 PM	-0.05	-0.08	-0.09
3:40:20 PM	-0.06	-0.08	-0.09
3:55:20 PM	-0.06	-0.09	-0.10
4:10:20 PM	-0.05	-0.09	-0.09
4:25:20 PM	-0.07	-0.09	-0.10
4:40:20 PM	-0.07	-0.09	-0.11
4:55:20 PM	-0.07	-0.10	-0.09
5:10:20 PM	-0.07	-0.11	-0.09
5:25:20 PM	-0.08	-0.11	-0.09
5:40:20 PM	-0.08	-0.10	-0.08
5:55:20 PM	-0.08	-0.11	-0.09
6:10:20 PM	-0.07	-0.10	-0.07
6:25:20 PM	-0.07	-0.10	-0.05
6:40:20 PM	-0.06	-0.10	0.00
6:55:20 PM	-0.06	-0.09	0.07
7:10:20 PM	-0.06	-0.09	0.08
7:25:20 PM	-0.06	-0.08	0.02
7:40:20 PM	-0.05	-0.08	-0.01
7:55:20 PM	-0.05	-0.08	-0.01
8:10:20 PM	-0.05	-0.07	-0.01
8:25:20 PM	-0.05	-0.08	-0.01

<b>8:40:20 PM</b>	-0.06	-0.08	-0.04
<b>8:55:20 PM</b>	-0.06	-0.08	-0.03
<b>9:10:20 PM</b>	-0.06	-0.08	-0.05
<b>9:25:20 PM</b>	-0.06	-0.08	-0.05
<b>9:40:20 PM</b>	-0.05	-0.08	-0.06
<b>9:55:20 PM</b>	-0.07	-0.09	-0.07
<b>10:10:20 PM</b>	-0.06	-0.09	-0.07
<b>10:25:20 PM</b>	-0.07	-0.10	-0.07
<b>10:40:20 PM</b>	-0.08	-0.10	-0.08
<b>10:55:20 PM</b>	-0.08	-0.11	-0.09
<b>11:10:20 PM</b>	-0.07	-0.10	-0.08
<b>11:25:20 PM</b>	-0.07	-0.11	-0.09
<b>11:40:20 PM</b>	-0.08	-0.11	-0.09
<b>11:55:20 PM</b>	-0.08	-0.11	-0.10
<b>12:10:20 AM</b>	-0.08	-0.11	-0.10
<b>12:25:20 AM</b>	-0.08	-0.11	-0.09
<b>12:40:20 AM</b>	-0.07	-0.11	-0.09
<b>12:55:20 AM</b>	-0.08	-0.11	-0.10
<b>1:10:20 AM</b>	-0.09	-0.12	-0.09
<b>1:25:20 AM</b>	-0.10	-0.13	-0.11
<b>1:40:20 AM</b>	-0.10	-0.12	-0.12
<b>1:55:20 AM</b>	-0.09	-0.13	-0.12
<b>2:10:20 AM</b>	-0.10	-0.13	-0.13
<b>2:25:20 AM</b>	-0.10	-0.13	-0.12
<b>2:40:20 AM</b>	-0.10	-0.13	-0.12
<b>2:55:20 AM</b>	-0.09	-0.13	-0.13
<b>3:10:20 AM</b>	-0.10	-0.13	-0.13
<b>3:25:20 AM</b>	-0.10	-0.13	-0.12
<b>3:40:20 AM</b>	-0.10	-0.13	-0.13
<b>3:55:20 AM</b>	-0.10	-0.13	-0.14
<b>4:10:20 AM</b>	-0.10	-0.13	-0.13
<b>4:25:20 AM</b>	-0.10	-0.14	-0.15
<b>4:40:20 AM</b>	-0.10	-0.14	-0.13
<b>4:55:20 AM</b>	-0.09	-0.13	-0.12
<b>5:10:20 AM</b>	-0.09	-0.13	-0.12
<b>5:25:20 AM</b>	-0.09	-0.12	-0.12
<b>5:40:20 AM</b>	-0.08	-0.11	-0.11
<b>5:55:20 AM</b>	-0.08	-0.11	-0.11
<b>6:10:20 AM</b>	-0.07	-0.10	-0.09
<b>6:25:20 AM</b>	-0.06	-0.10	-0.09
<b>6:40:20 AM</b>	-0.05	-0.09	-0.08
<b>6:55:20 AM</b>	-0.05	-0.08	-0.07
<b>7:10:20 AM</b>	-0.04	-0.08	-0.07
<b>7:25:20 AM</b>	-0.04	-0.08	-0.07
<b>7:40:20 AM</b>	-0.05	-0.08	-0.07
<b>7:55:20 AM</b>	-0.05	-0.08	-0.08
<b>8:10:20 AM</b>	-0.05	-0.08	-0.08
<b>8:25:20 AM</b>	-0.04	-0.07	-0.07
<b>8:40:20 AM</b>	-0.04	-0.08	-0.09
<b>8:55:20 AM</b>	-0.05	-0.08	-0.09
<b>9:10:20 AM</b>	-0.06	-0.08	-0.09
<b>9:25:20 AM</b>	-0.06	-0.08	-0.08

<b>9:40:20 AM</b>	-0.05	-0.08	-0.08
<b>9:55:20 AM</b>	-0.05	-0.08	-0.08
<b>10:10:20 AM</b>	-0.05	-0.08	-0.08
<b>10:25:20 AM</b>	-0.05	-0.08	-0.08
<b>10:40:20 AM</b>	-0.06	-0.08	-0.08
<b>10:55:20 AM</b>	-0.07	-0.09	-0.09
<b>11:10:20 AM</b>	-0.07	-0.10	-0.11
<b>11:25:20 AM</b>	-0.09	-0.11	-0.12
<b>11:40:20 AM</b>	-0.10	-0.12	-0.12
<b>11:55:20 AM</b>	-0.10	-0.13	-0.14
<b>12:10:20 PM</b>	-0.11	-0.13	-0.15
<b>12:25:20 PM</b>	-0.13	-0.15	-0.16
<b>12:40:20 PM</b>	-0.13	-0.16	-0.16
<b>12:55:20 PM</b>	-0.14	-0.16	-0.17
<b>1:10:20 PM</b>	-0.15	-0.17	-0.18
<b>1:25:20 PM</b>	-0.15	-0.19	-0.18
<b>1:40:20 PM</b>	-0.16	-0.19	-0.20
<b>1:55:20 PM</b>	-0.17	-0.20	-0.21
<b>2:10:20 PM</b>	-0.16	-0.20	-0.22
<b>2:25:20 PM</b>	-0.19	-0.21	-0.23
<b>2:40:20 PM</b>	-0.18	-0.22	-0.24
<b>2:55:20 PM</b>	-0.20	-0.23	-0.25
<b>3:10:20 PM</b>	-0.21	-0.24	-0.25
<b>3:25:20 PM</b>	-0.21	-0.24	-0.26
<b>3:40:20 PM</b>	-0.20	-0.24	-0.25
<b>3:55:20 PM</b>	-0.20	-0.25	-0.27
<b>4:10:20 PM</b>	-0.21	-0.24	-0.26
<b>4:25:20 PM</b>	-0.21	-0.25	-0.27
<b>4:40:20 PM</b>	-0.23	-0.26	-0.27
<b>4:55:20 PM</b>	-0.23	-0.27	-0.28
<b>5:10:20 PM</b>	-0.25	-0.27	-0.30
<b>5:25:20 PM</b>	-0.24	-0.28	-0.30
<b>5:40:20 PM</b>	-0.23	-0.28	-0.30
<b>5:55:20 PM</b>	-0.25	-0.29	-0.30
<b>6:10:20 PM</b>	-0.25	-0.29	-0.30
<b>6:25:20 PM</b>	-0.25	-0.28	-0.29
<b>6:40:20 PM</b>	-0.24	-0.27	-0.28
<b>6:55:20 PM</b>	-0.24	-0.27	-0.28
<b>7:10:20 PM</b>	-0.24	-0.27	-0.29
<b>7:25:20 PM</b>	-0.23	-0.27	-0.27
<b>7:40:20 PM</b>	-0.23	-0.27	-0.29
<b>7:55:20 PM</b>	-0.23	-0.26	-0.29
<b>8:10:20 PM</b>	-0.24	-0.27	-0.28
<b>8:25:20 PM</b>	-0.24	-0.27	-0.30
<b>8:40:20 PM</b>	-0.25	-0.28	-0.30
<b>8:55:20 PM</b>	-0.25	-0.28	-0.30
<b>9:10:20 PM</b>	-0.25	-0.29	-0.31
<b>9:25:20 PM</b>	-0.25	-0.28	-0.31
<b>9:40:20 PM</b>	-0.25	-0.29	-0.30
<b>9:55:20 PM</b>	-0.25	-0.28	-0.29
<b>10:10:20 PM</b>	-0.26	-0.29	-0.30
<b>10:25:20 PM</b>	-0.26	-0.29	-0.31

<b>10:40:20 PM</b>	-0.27	-0.30	-0.32
<b>10:55:20 PM</b>	-0.28	-0.31	-0.33
<b>11:10:20 PM</b>	-0.28	-0.31	-0.33
<b>11:25:20 PM</b>	-0.29	-0.32	-0.33
<b>11:40:20 PM</b>	-0.29	-0.32	-0.33
<b>11:55:20 PM</b>	-0.28	-0.32	-0.32
<b>12:10:20 AM</b>	-0.29	-0.32	-0.33
<b>12:25:20 AM</b>	-0.29	-0.33	-0.34
<b>12:40:20 AM</b>	-0.30	-0.34	-0.35
<b>12:55:20 AM</b>	-0.31	-0.34	-0.35
<b>1:10:20 AM</b>	-0.31	-0.34	-0.36
<b>1:25:20 AM</b>	-0.32	-0.35	-0.37
<b>1:40:20 AM</b>	-0.33	-0.36	-0.38
<b>1:55:20 AM</b>	-0.34	-0.38	-0.40
<b>2:10:20 AM</b>	-0.34	-0.39	-0.41
<b>2:25:20 AM</b>	-0.36	-0.39	-0.42
<b>2:40:20 AM</b>	-0.37	-0.41	-0.42
<b>2:55:20 AM</b>	-0.39	-0.42	-0.45
<b>3:10:20 AM</b>	-0.40	-0.43	-0.46
<b>3:25:20 AM</b>	-0.41	-0.45	-0.47
<b>3:40:20 AM</b>	-0.43	-0.46	-0.48
<b>3:55:20 AM</b>	-0.44	-0.47	-0.50
<b>4:10:20 AM</b>	-0.45	-0.48	-0.50
<b>4:25:20 AM</b>	-0.45	-0.49	-0.50
<b>4:40:20 AM</b>	-0.46	-0.49	-0.51
<b>4:55:20 AM</b>	-0.46	-0.50	-0.52
<b>5:10:20 AM</b>	-0.48	-0.51	-0.54
<b>5:25:20 AM</b>	-0.49	-0.52	-0.55
<b>5:40:20 AM</b>	-0.49	-0.52	-0.56
<b>5:55:20 AM</b>	-0.51	-0.54	-0.57
<b>6:10:20 AM</b>	-0.52	-0.54	-0.58
<b>6:25:20 AM</b>	-0.53	-0.55	-0.59
<b>6:40:20 AM</b>	-0.53	-0.56	-0.59
<b>6:55:20 AM</b>	-0.55	-0.57	-0.61
<b>7:10:20 AM</b>	-0.56	-0.59	-0.63
<b>7:25:20 AM</b>	-0.58	-0.61	-0.64
<b>7:40:20 AM</b>	-0.59	-0.62	-0.63
<b>7:55:20 AM</b>	-0.60	-0.63	-0.65
<b>8:10:20 AM</b>	-0.61	-0.65	-0.66
<b>8:25:20 AM</b>	-0.63	-0.67	-0.69
<b>8:40:20 AM</b>	-0.65	-0.68	-0.71
<b>8:55:20 AM</b>	-0.67	-0.69	-0.73
<b>9:10:20 AM</b>	-0.68	-0.72	-0.75
<b>9:25:20 AM</b>	-0.69	-0.72	-0.77
<b>9:40:20 AM</b>	-0.72	-0.74	-0.78
<b>9:55:20 AM</b>	-0.73	-0.77	-0.81
<b>10:10:20 AM</b>	-0.76	-0.79	-0.83
<b>10:25:20 AM</b>	-0.78	-0.81	-0.85
<b>10:40:20 AM</b>	-0.79	-0.83	-0.85
<b>10:55:20 AM</b>	-0.81	-0.84	-0.88
<b>11:10:20 AM</b>	-0.82	-0.85	-0.90
<b>11:25:20 AM</b>	-0.84	-0.88	-0.91

<b>11:40:20 AM</b>	-0.88	-0.90	-0.94
<b>11:55:20 AM</b>	-0.89	-0.93	-0.97
<b>12:10:20 PM</b>	-0.91	-0.94	-0.99
<b>12:25:20 PM</b>	-0.92	-0.96	-1.00
<b>12:40:20 PM</b>	-0.94	-0.97	-1.02
<b>12:55:20 PM</b>	-0.97	-1.00	-1.03
<b>1:10:20 PM</b>	-0.98	-1.01	-1.05
<b>1:25:20 PM</b>	-0.99	-1.03	-1.07
<b>1:40:20 PM</b>	-0.99	-1.03	-1.06
<b>1:55:20 PM</b>	-1.01	-1.04	-0.83
<b>2:10:20 PM</b>	-1.01	-1.06	-0.69
<b>2:25:20 PM</b>	-1.05	-1.08	-0.72
<b>2:40:20 PM</b>	-1.06	-1.10	-0.87
<b>2:55:20 PM</b>	-1.07	-1.12	-0.99
<b>3:10:20 PM</b>	-1.09	-1.12	-1.05
<b>3:25:20 PM</b>	-1.09	-1.12	-1.06
<b>3:40:20 PM</b>	-1.09	-1.13	-0.97
<b>3:55:20 PM</b>	-1.09	-1.14	-0.91
<b>4:10:20 PM</b>	-1.10	-1.14	-1.01
<b>4:25:20 PM</b>	-1.11	-1.14	-1.07
<b>4:40:20 PM</b>	-1.10	-1.14	-1.09
<b>4:55:20 PM</b>	-1.10	-1.14	-1.12
<b>5:10:20 PM</b>	-1.11	-1.15	-1.12
<b>5:25:20 PM</b>	-1.11	-1.15	-1.08
<b>5:40:20 PM</b>	-1.11	-1.15	-1.10
<b>5:55:20 PM</b>	-1.12	-1.15	-1.13
<b>6:10:20 PM</b>	-1.12	-1.14	-1.14
<b>6:25:20 PM</b>	-1.12	-1.15	-1.14
<b>6:40:20 PM</b>	-1.11	-1.14	-1.15
<b>6:55:20 PM</b>	-1.12	-1.15	-1.15
<b>7:10:20 PM</b>	-1.12	-1.15	-1.16
<b>7:25:20 PM</b>	-1.11	-1.14	-1.16
<b>7:40:20 PM</b>	-1.11	-1.14	-1.16
<b>7:55:20 PM</b>	-1.11	-1.14	-1.15
<b>8:10:20 PM</b>	-1.11	-1.14	-1.16
<b>8:25:20 PM</b>	-1.11	-1.14	-1.16
<b>8:40:20 PM</b>	-1.11	-1.14	-1.16
<b>8:55:20 PM</b>	-1.10	-1.14	-1.15
<b>9:10:20 PM</b>	-1.10	-1.13	-1.14
<b>9:25:20 PM</b>	-1.09	-1.12	-1.14
<b>9:40:20 PM</b>	-1.09	-1.12	-1.13
<b>9:55:20 PM</b>	-1.09	-1.12	-1.14
<b>10:10:20 PM</b>	-1.07	-1.11	-1.13
<b>10:25:20 PM</b>	-1.07	-1.10	-1.13
<b>10:40:20 PM</b>	-1.07	-1.09	-1.12
<b>10:55:20 PM</b>	-1.06	-1.09	-1.11
<b>11:10:20 PM</b>	-1.05	-1.07	-1.11
<b>11:25:20 PM</b>	-1.05	-1.07	-1.10
<b>11:40:20 PM</b>	-1.02	-1.06	-1.09
<b>11:55:20 PM</b>	-1.02	-1.04	-1.08
<b>12:10:20 AM</b>	-1.01	-1.03	-1.06
<b>12:25:20 AM</b>	-0.99	-1.02	-1.06

<b>12:40:20 AM</b>	-0.99	-1.01	-1.05
<b>12:55:20 AM</b>	-0.98	-1.00	-1.04
<b>1:10:20 AM</b>	-0.98	-1.00	-1.05
<b>1:25:20 AM</b>	-0.98	-1.00	-1.04
<b>1:40:20 AM</b>	-0.97	-1.00	-1.02
<b>1:55:20 AM</b>	-0.97	-0.99	-1.04
<b>2:10:20 AM</b>	-0.96	-0.99	-1.03
<b>2:25:20 AM</b>	-0.96	-0.98	-1.03
<b>2:40:20 AM</b>	-0.96	-0.97	-1.02
<b>2:55:20 AM</b>	-0.94	-0.97	-1.01
<b>3:10:20 AM</b>	-0.95	-0.97	-1.01
<b>3:25:20 AM</b>	-0.94	-0.96	-1.01
<b>3:40:20 AM</b>	-0.94	-0.96	-1.00
<b>3:55:20 AM</b>	-0.93	-0.95	-1.00
<b>4:10:20 AM</b>	-0.92	-0.95	-1.00
<b>4:25:20 AM</b>	-0.93	-0.95	-0.99
<b>4:40:20 AM</b>	-0.93	-0.94	-0.99
<b>4:55:20 AM</b>	-0.91	-0.94	-0.98
<b>5:10:20 AM</b>	-0.90	-0.92	-0.97
<b>5:25:20 AM</b>	-0.90	-0.92	-0.97
<b>5:40:20 AM</b>	-0.89	-0.92	-0.97
<b>5:55:20 AM</b>	-0.88	-0.92	-0.96
<b>6:10:20 AM</b>	-0.87	-0.90	-0.93
<b>6:25:20 AM</b>	-0.87	-0.89	-0.92
<b>6:40:20 AM</b>	-0.86	-0.89	-0.92
<b>6:55:20 AM</b>	-0.85	-0.88	-0.92
<b>7:10:20 AM</b>	-0.84	-0.88	-0.90
<b>7:25:20 AM</b>	-0.84	-0.86	-0.90
<b>7:40:20 AM</b>	-0.84	-0.85	-0.89
<b>7:55:20 AM</b>	-0.83	-0.85	-0.90
<b>8:10:20 AM</b>	-0.83	-0.85	-0.89
<b>8:25:20 AM</b>	-0.83	-0.85	-0.90
<b>8:40:20 AM</b>	-0.83	-0.85	-0.88
<b>8:55:20 AM</b>	-0.82	-0.84	-0.88
<b>9:10:20 AM</b>	-0.82	-0.84	-0.88
<b>9:25:20 AM</b>	-0.82	-0.84	-0.88
<b>9:40:20 AM</b>	-0.82	-0.83	-0.87
<b>9:55:20 AM</b>	-0.82	-0.83	-0.86
<b>10:10:20 AM</b>	-0.81	-0.82	-0.86
<b>10:25:20 AM</b>	-0.81	-0.82	-0.86
<b>10:40:20 AM</b>	-0.81	-0.82	-0.85
<b>10:55:20 AM</b>	-0.80	-0.81	-0.85
<b>11:10:20 AM</b>	-0.80	-0.81	-0.85
<b>11:25:20 AM</b>	-0.79	-0.81	-0.85
<b>11:40:20 AM</b>	-0.79	-0.81	-0.85
<b>11:55:20 AM</b>	-0.77	-0.80	-0.83
<b>12:10:20 PM</b>	-0.78	-0.79	-0.83
<b>12:25:20 PM</b>	-0.78	-0.79	-0.82
<b>12:40:20 PM</b>	-0.77	-0.78	-0.82
<b>12:55:20 PM</b>	-0.76	-0.79	-0.82
<b>1:10:20 PM</b>	-0.76	-0.77	-0.80
<b>1:25:20 PM</b>	-0.74	-0.77	-0.80

<b>1:40:20 PM</b>	-0.74	-0.77	-0.80
<b>1:55:20 PM</b>	-0.75	-0.76	-0.80
<b>2:10:20 PM</b>	-0.74	-0.77	-0.80
<b>2:25:20 PM</b>	-0.74	-0.76	-0.80
<b>2:40:20 PM</b>	-0.74	-0.76	-0.79
<b>2:55:20 PM</b>	-0.73	-0.75	-0.78
<b>3:10:20 PM</b>	-0.72	-0.74	-0.78
<b>3:25:20 PM</b>	-0.72	-0.74	-0.77
<b>3:40:20 PM</b>	-0.71	-0.73	-0.76
<b>3:55:20 PM</b>	-0.71	-0.72	-0.76
<b>4:10:20 PM</b>	-0.70	-0.72	-0.76
<b>4:25:20 PM</b>	-0.69	-0.72	-0.74
<b>4:40:20 PM</b>	-0.68	-0.70	-0.74
<b>4:55:20 PM</b>	-0.68	-0.70	-0.73
<b>5:10:20 PM</b>	-0.67	-0.69	-0.72
<b>5:25:20 PM</b>	-0.66	-0.69	-0.72
<b>5:40:20 PM</b>	-0.66	-0.69	-0.71
<b>5:55:20 PM</b>	-0.65	-0.69	-0.71
<b>6:10:20 PM</b>	-0.65	-0.68	-0.70
<b>6:25:20 PM</b>	-0.63	-0.67	-0.68
<b>6:40:20 PM</b>	-0.62	-0.66	-0.67
<b>6:55:20 PM</b>	-0.61	-0.64	-0.66
<b>7:10:20 PM</b>	-0.60	-0.64	-0.65
<b>7:25:20 PM</b>	-0.60	-0.63	-0.63
<b>7:40:20 PM</b>	-0.59	-0.62	-0.64
<b>7:55:20 PM</b>	-0.59	-0.62	-0.64
<b>8:10:20 PM</b>	-0.58	-0.62	-0.64
<b>8:25:20 PM</b>	-0.58	-0.62	-0.63
<b>8:40:20 PM</b>	-0.57	-0.60	-0.63
<b>8:55:20 PM</b>	-0.57	-0.61	-0.62
<b>9:10:20 PM</b>	-0.57	-0.60	-0.63
<b>9:25:20 PM</b>	-0.57	-0.60	-0.62
<b>9:40:20 PM</b>	-0.57	-0.60	-0.62
<b>9:55:20 PM</b>	-0.56	-0.60	-0.61
<b>10:10:20 PM</b>	-0.56	-0.59	-0.62
<b>10:25:20 PM</b>	-0.56	-0.60	-0.61
<b>10:40:20 PM</b>	-0.56	-0.59	-0.61
<b>10:55:20 PM</b>	-0.56	-0.59	-0.62
<b>11:10:20 PM</b>	-0.56	-0.59	-0.61
<b>11:25:20 PM</b>	-0.56	-0.59	-0.61
<b>11:40:20 PM</b>	-0.55	-0.59	-0.61
<b>11:55:20 PM</b>	-0.54	-0.59	-0.59
<b>12:10:20 AM</b>	-0.54	-0.57	-0.59
<b>12:25:20 AM</b>	-0.54	-0.58	-0.59
<b>12:40:20 AM</b>	-0.54	-0.57	-0.59
<b>12:55:20 AM</b>	-0.54	-0.57	-0.59
<b>1:10:20 AM</b>	-0.53	-0.57	-0.58
<b>1:25:20 AM</b>	-0.53	-0.57	-0.55
<b>1:40:20 AM</b>	-0.53	-0.56	-0.57
<b>1:55:20 AM</b>	-0.53	-0.55	-0.57
<b>2:10:20 AM</b>	-0.53	-0.55	-0.57
<b>2:25:20 AM</b>	-0.53	-0.55	-0.57



<b>2:40:20 AM</b>	-0.53	-0.56	-0.57
<b>2:55:20 AM</b>	-0.53	-0.55	-0.56
<b>3:10:20 AM</b>	-0.52	-0.55	-0.56
<b>3:25:20 AM</b>	-0.52	-0.55	-0.57
<b>3:40:20 AM</b>	-0.51	-0.55	-0.56
<b>3:55:20 AM</b>	-0.51	-0.55	-0.56
<b>4:10:20 AM</b>	-0.51	-0.54	-0.55
<b>4:25:20 AM</b>	-0.49	-0.53	-0.54
<b>4:40:20 AM</b>	-0.49	-0.52	-0.52
<b>4:55:20 AM</b>	-0.49	-0.52	-0.53
<b>5:10:20 AM</b>	-0.47	-0.50	-0.51
<b>5:25:20 AM</b>	-0.46	-0.50	-0.50
<b>5:40:20 AM</b>	-0.47	-0.49	-0.50
<b>5:55:20 AM</b>	-0.46	-0.49	-0.50
<b>6:10:20 AM</b>	-0.46	-0.49	-0.49
<b>6:25:20 AM</b>	-0.45	-0.48	-0.49
<b>6:40:20 AM</b>	-0.45	-0.47	-0.49
<b>6:55:20 AM</b>	-0.44	-0.47	-0.48
<b>7:10:20 AM</b>	-0.44	-0.46	-0.49
<b>7:25:20 AM</b>	-0.44	-0.47	-0.47
<b>7:40:20 AM</b>	-0.44	-0.47	-0.49
<b>7:55:20 AM</b>	-0.44	-0.47	-0.48
<b>8:10:20 AM</b>	-0.44	-0.47	-0.48
<b>8:25:20 AM</b>	-0.44	-0.46	-0.47
<b>8:40:20 AM</b>	-0.42	-0.46	-0.47
<b>8:55:20 AM</b>	-0.42	-0.46	-0.46
<b>9:10:20 AM</b>	-0.42	-0.46	-0.46
<b>9:25:20 AM</b>	-0.42	-0.46	-0.46
<b>9:40:20 AM</b>	-0.42	-0.45	-0.46
<b>9:55:20 AM</b>	-0.42	-0.45	-0.46
<b>10:10:20 AM</b>	-0.42	-0.45	-0.46
<b>10:25:20 AM</b>	-0.42	-0.46	-0.47
<b>10:40:20 AM</b>	-0.44	-0.46	-0.47
<b>10:55:20 AM</b>	-0.44	-0.47	-0.48
<b>11:10:20 AM</b>	-0.45	-0.48	-0.48
<b>11:25:20 AM</b>	-0.45	-0.47	-0.48
<b>11:40:20 AM</b>	-0.45	-0.47	-0.49
<b>11:55:20 AM</b>	-0.45	-0.48	-0.49
<b>12:10:20 PM</b>	-0.46	-0.49	-0.50
<b>12:25:20 PM</b>	-0.46	-0.49	-0.50
<b>12:40:20 PM</b>	-0.46	-0.49	-0.50
<b>12:55:20 PM</b>	-0.46	-0.50	-0.50
<b>1:10:20 PM</b>	-0.46	-0.50	-0.50
<b>1:25:20 PM</b>	-0.47	-0.50	-0.50
<b>1:40:20 PM</b>	-0.47	-0.50	-0.51
<b>1:55:20 PM</b>	-0.48	-0.51	-0.52
<b>2:10:20 PM</b>	-0.47	-0.50	-0.52
<b>2:25:20 PM</b>	-0.48	-0.50	-0.52
<b>2:40:20 PM</b>	-0.47	-0.50	-0.52
<b>2:55:20 PM</b>	-0.48	-0.51	-0.52
<b>3:10:20 PM</b>	-0.48	-0.51	-0.52
<b>3:25:20 PM</b>	-0.47	-0.52	-0.52

<b>3:40:20 PM</b>	-0.47	-0.50	-0.52
<b>3:55:20 PM</b>	-0.47	-0.50	-0.52
<b>4:10:20 PM</b>	-0.47	-0.50	-0.51
<b>4:25:20 PM</b>	-0.46	-0.50	-0.51
<b>4:40:20 PM</b>	-0.47	-0.51	-0.51
<b>4:55:20 PM</b>	-0.46	-0.50	-0.47
<b>5:10:20 PM</b>	-0.46	-0.50	-0.50
<b>5:25:20 PM</b>	-0.47	-0.50	-0.50
<b>5:40:20 PM</b>	-0.46	-0.50	-0.50
<b>5:55:20 PM</b>	-0.46	-0.50	-0.50
<b>6:10:20 PM</b>	-0.46	-0.49	-0.49
<b>6:25:20 PM</b>	-0.45	-0.49	-0.49
<b>6:40:20 PM</b>	-0.44	-0.48	-0.48
<b>6:55:20 PM</b>	-0.44	-0.48	-0.47
<b>7:10:20 PM</b>	-0.42	-0.46	-0.47
<b>7:25:20 PM</b>	-0.42	-0.46	-0.46
<b>7:40:20 PM</b>	-0.41	-0.46	-0.46
<b>7:55:20 PM</b>	-0.41	-0.45	-0.45
<b>8:10:20 PM</b>	-0.40	-0.44	-0.45
<b>8:25:20 PM</b>	-0.39	-0.44	-0.44
<b>8:40:20 PM</b>	-0.39	-0.43	-0.43
<b>8:55:20 PM</b>	-0.39	-0.42	-0.43
<b>9:10:20 PM</b>	-0.39	-0.43	-0.43
<b>9:25:20 PM</b>	-0.40	-0.44	-0.43
<b>9:40:20 PM</b>	-0.40	-0.43	-0.43
<b>9:55:20 PM</b>	-0.41	-0.44	-0.43
<b>10:10:20 PM</b>	-0.41	-0.44	-0.44
<b>10:25:20 PM</b>	-0.40	-0.44	-0.44
<b>10:40:20 PM</b>	-0.41	-0.44	-0.45
<b>10:55:20 PM</b>	-0.40	-0.44	-0.44
<b>11:10:20 PM</b>	-0.40	-0.44	-0.45
<b>11:25:20 PM</b>	-0.41	-0.44	-0.45
<b>11:40:20 PM</b>	-0.41	-0.44	-0.45
<b>11:55:20 PM</b>	-0.41	-0.46	-0.45
<b>12:10:20 AM</b>	-0.42	-0.45	-0.45
<b>12:25:20 AM</b>	-0.42	-0.45	-0.44
<b>12:40:20 AM</b>	-0.42	-0.46	-0.45
<b>12:55:20 AM</b>	-0.42	-0.46	-0.46
<b>1:10:20 AM</b>	-0.43	-0.46	-0.47
<b>1:25:20 AM</b>	-0.45	-0.48	-0.49
<b>1:40:20 AM</b>	-0.45	-0.49	-0.49
<b>1:55:20 AM</b>	-0.45	-0.49	-0.50
<b>2:10:20 AM</b>	-0.46	-0.49	-0.50
<b>2:25:20 AM</b>	-0.47	-0.50	-0.50
<b>2:40:20 AM</b>	-0.47	-0.50	-0.51
<b>2:55:20 AM</b>	-0.49	-0.51	-0.52
<b>3:10:20 AM</b>	-0.49	-0.52	-0.52
<b>3:25:20 AM</b>	-0.49	-0.52	-0.54
<b>3:40:20 AM</b>	-0.50	-0.54	-0.55
<b>3:55:20 AM</b>	-0.52	-0.55	-0.56
<b>4:10:20 AM</b>	-0.53	-0.56	-0.59
<b>4:25:20 AM</b>	-0.54	-0.58	-0.59

<b>4:40:20 AM</b>	-0.55	-0.59	-0.60
<b>4:55:20 AM</b>	-0.56	-0.59	-0.61
<b>5:10:20 AM</b>	-0.56	-0.59	-0.59
<b>5:25:20 AM</b>	-0.56	-0.61	-0.61
<b>5:40:20 AM</b>	-0.57	-0.61	-0.61
<b>5:55:20 AM</b>	-0.58	-0.62	-0.62
<b>6:10:20 AM</b>	-0.58	-0.61	-0.63
<b>6:25:20 AM</b>	-0.58	-0.61	-0.62
<b>6:40:20 AM</b>	-0.58	-0.61	-0.63
<b>6:55:20 AM</b>	-0.59	-0.61	-0.62
<b>7:10:20 AM</b>	-0.59	-0.62	-0.63
<b>7:25:20 AM</b>	-0.61	-0.64	-0.66
<b>7:40:20 AM</b>	-0.62	-0.65	-0.67
<b>7:55:20 AM</b>	-0.62	-0.65	-0.67
<b>8:10:20 AM</b>	-0.65	-0.67	-0.70
<b>8:25:20 AM</b>	-0.64	-0.68	-0.69
<b>8:40:20 AM</b>	-0.69	-0.72	-0.75
<b>8:55:20 AM</b>	-0.66	-0.69	-0.69
<b>9:10:20 AM</b>	-0.68	-0.72	-0.71
<b>9:25:20 AM</b>	-0.68	-0.71	-0.71
<b>9:40:20 AM</b>	-0.68	-0.72	-0.65
<b>9:55:20 AM</b>	-0.68	-0.72	-0.62
<b>10:10:20 AM</b>	-0.70	-0.72	-0.68
<b>10:25:20 AM</b>	-0.72	-0.74	-0.70
<b>10:40:20 AM</b>	-0.73	-0.76	-0.70
<b>10:55:20 AM</b>	-0.74	-0.77	-0.74
<b>11:10:20 AM</b>	-0.75	-0.79	-0.77
<b>11:25:20 AM</b>	-0.78	-0.81	-0.80
<b>11:40:20 AM</b>	-0.77	-0.80	-0.78
<b>11:55:20 AM</b>	-0.79	-0.82	-0.82
<b>12:10:20 PM</b>	-0.79	-0.83	-0.68
<b>12:25:20 PM</b>	-0.78	-0.82	-0.72
<b>12:40:20 PM</b>	-0.81	-0.84	-0.79
<b>12:55:20 PM</b>	-0.81	-0.83	-0.74
<b>1:10:20 PM</b>	-0.85	-0.88	-0.78
<b>1:25:20 PM</b>	-0.83	-0.87	-0.72
<b>1:40:20 PM</b>	-0.85	-0.90	-0.77
<b>1:55:20 PM</b>	-0.84	-0.89	-0.79
<b>2:10:20 PM</b>	-0.87	-0.90	-0.83
<b>2:25:20 PM</b>	-0.89	-0.93	-0.80
<b>2:40:20 PM</b>	-0.91	-0.95	-0.84
<b>2:55:20 PM</b>	-0.89	-0.93	-0.82
<b>3:10:20 PM</b>	-0.88	-0.92	-0.85
<b>3:25:20 PM</b>	-0.90	-0.94	-0.88
<b>3:40:20 PM</b>	-0.94	-0.97	-0.90
<b>3:55:20 PM</b>	-0.96	-1.00	-0.90
<b>4:10:20 PM</b>	-0.95	-0.99	-0.93
<b>4:25:20 PM</b>	-1.00	-1.03	-1.00
<b>4:40:20 PM</b>	-0.97	-1.01	-0.97
<b>4:55:20 PM</b>	-0.99	-1.02	-1.00
<b>5:10:20 PM</b>	-1.01	-1.04	-1.01
<b>5:25:20 PM</b>	-1.01	-1.05	-1.04

5:40:20 PM	-1.02	-1.06	-1.05
5:55:20 PM	-1.02	-1.05	-1.05
6:10:20 PM	-1.02	-1.06	-1.04
6:25:20 PM	-1.01	-1.06	-1.05
6:40:20 PM	-1.01	-1.05	-1.04
6:55:20 PM	-1.00	-1.04	-1.04
7:10:20 PM	-1.00	-1.04	-1.04
7:25:20 PM	-1.00	-1.03	-1.04
7:40:20 PM	-0.99	-1.03	-1.04
7:55:20 PM	-1.00	-1.03	-1.05
8:10:20 PM	-1.00	-1.04	-1.04
8:25:20 PM	-1.00	-1.04	-1.05
8:40:20 PM	-1.01	-1.05	-1.05
8:55:20 PM	-1.01	-1.05	-1.04
9:10:20 PM	-1.01	-1.05	-1.05
9:25:20 PM	-1.01	-1.05	-1.04
9:40:20 PM	-1.02	-1.05	-1.05
9:55:20 PM	-1.02	-1.07	-1.07
10:10:20 PM	-1.04	-1.06	-1.06
10:25:20 PM	-1.04	-1.07	-1.08
10:40:20 PM	-1.04	-1.07	-1.08
10:55:20 PM	-1.05	-1.07	-1.08
11:10:20 PM	-1.05	-1.08	-1.09
11:25:20 PM	-1.05	-1.09	-1.09
11:40:20 PM	-1.06	-1.09	-1.11
11:55:20 PM	-1.06	-1.09	-1.10
12:10:20 AM	-1.06	-1.10	-1.12
12:25:20 AM	-1.07	-1.10	-1.12
12:40:20 AM	-1.07	-1.11	-1.12
12:55:20 AM	-1.07	-1.11	-1.12
1:10:20 AM	-1.07	-1.10	-1.12
1:25:20 AM	-1.07	-1.10	-1.12
1:40:20 AM	-1.07	-1.10	-1.12
1:55:20 AM	-1.07	-1.10	-1.13
2:10:20 AM	-1.07	-1.10	-1.13
2:25:20 AM	-1.08	-1.10	-1.13
2:40:20 AM	-1.07	-1.10	-1.13
2:55:20 AM	-1.08	-1.10	-1.13
3:10:20 AM	-1.07	-1.10	-1.12
3:25:20 AM	-1.07	-1.10	-1.12
3:40:20 AM	-1.06	-1.10	-1.12
3:55:20 AM	-1.06	-1.09	-1.12
4:10:20 AM	-1.05	-1.08	-1.09
4:25:20 AM	-1.04	-1.08	-1.11
4:40:20 AM	-1.05	-1.07	-1.10
4:55:20 AM	-1.04	-1.07	-1.10
5:10:20 AM	-1.02	-1.06	-1.09
5:25:20 AM	-1.02	-1.05	-1.08
5:40:20 AM	-1.02	-1.05	-1.07
5:55:20 AM	-1.01	-1.04	-1.07
6:10:20 AM	-1.01	-1.04	-1.07
6:25:20 AM	-1.00	-1.03	-1.06

<b>6:40:20 AM</b>	-1.00	-1.03	-1.05
<b>6:55:20 AM</b>	-0.99	-1.02	-1.05
<b>7:10:20 AM</b>	-0.99	-1.02	-1.05
<b>7:25:20 AM</b>	-0.98	-1.02	-1.04
<b>7:40:20 AM</b>	-0.97	-1.00	-1.02
<b>7:55:20 AM</b>	-0.97	-1.00	-1.02
<b>8:10:20 AM</b>	-0.96	-1.00	-1.02
<b>8:25:20 AM</b>	-0.96	-0.99	-1.00
<b>8:40:20 AM</b>	-0.96	-0.98	-1.00
<b>8:55:20 AM</b>	-0.95	-0.98	-1.00
<b>9:10:20 AM</b>	-0.94	-0.97	-1.00
<b>9:25:20 AM</b>	-0.93	-0.96	-0.97
<b>9:40:20 AM</b>	-0.92	-0.96	-0.98
<b>9:55:20 AM</b>	-0.92	-0.95	-0.97
<b>10:10:20 AM</b>	-0.92	-0.95	-0.97
<b>10:25:20 AM</b>	-0.91	-0.94	-0.96
<b>10:40:20 AM</b>	-0.91	-0.93	-0.96
<b>10:55:20 AM</b>	-0.90	-0.93	-0.95
<b>11:10:20 AM</b>	-0.90	-0.92	-0.94
<b>11:25:20 AM</b>	-0.90	-0.93	-0.94
<b>11:40:20 AM</b>	-0.89	-0.93	-0.94
<b>11:55:20 AM</b>	-0.89	-0.92	-0.94
<b>12:10:20 PM</b>	-0.89	-0.92	-0.94
<b>12:25:20 PM</b>	-0.88	-0.91	-0.92
<b>12:40:20 PM</b>	-0.87	-0.89	-0.92
<b>12:55:20 PM</b>	-0.87	-0.89	-0.91
<b>1:10:20 PM</b>	-0.86	-0.88	-0.91
<b>1:25:20 PM</b>	-0.86	-0.89	-0.91
<b>1:40:20 PM</b>	-0.86	-0.88	-0.91
<b>1:55:20 PM</b>	-0.86	-0.89	-0.91
<b>2:10:20 PM</b>	-0.86	-0.88	-0.91
<b>2:25:20 PM</b>	-0.86	-0.88	-0.91
<b>2:40:20 PM</b>	-0.85	-0.88	-0.89
<b>2:55:20 PM</b>	-0.85	-0.87	-0.90
<b>3:10:20 PM</b>	-0.83	-0.86	-0.89
<b>3:25:20 PM</b>	-0.83	-0.86	-0.88
<b>3:40:20 PM</b>	-0.83	-0.85	-0.88
<b>3:55:20 PM</b>	-0.82	-0.84	-0.85
<b>4:10:20 PM</b>	-0.81	-0.83	-0.85
<b>4:25:20 PM</b>	-0.80	-0.82	-0.84
<b>4:40:20 PM</b>	-0.79	-0.81	-0.84
<b>4:55:20 PM</b>	-0.79	-0.81	-0.84
<b>5:10:20 PM</b>	-0.78	-0.81	-0.82
<b>5:25:20 PM</b>	-0.78	-0.81	-0.82
<b>5:40:20 PM</b>	-0.78	-0.80	-0.82
<b>5:55:20 PM</b>	-0.77	-0.79	-0.82
<b>6:10:20 PM</b>	-0.77	-0.79	-0.82
<b>6:25:20 PM</b>	-0.77	-0.79	-0.81
<b>6:40:20 PM</b>	-0.76	-0.79	-0.80
<b>6:55:20 PM</b>	-0.76	-0.79	-0.80
<b>7:10:20 PM</b>	-0.75	-0.77	-0.80
<b>7:25:20 PM</b>	-0.75	-0.78	-0.79

<b>7:40:20 PM</b>	-0.74	-0.77	-0.77
<b>7:55:20 PM</b>	-0.73	-0.77	-0.76
<b>8:10:20 PM</b>	-0.72	-0.75	-0.77
<b>8:25:20 PM</b>	-0.72	-0.75	-0.77
<b>8:40:20 PM</b>	-0.72	-0.74	-0.76
<b>8:55:20 PM</b>	-0.72	-0.74	-0.76
<b>9:10:20 PM</b>	-0.72	-0.74	-0.76
<b>9:25:20 PM</b>	-0.72	-0.75	-0.76
<b>9:40:20 PM</b>	-0.72	-0.74	-0.76
<b>9:55:20 PM</b>	-0.71	-0.75	-0.76
<b>10:10:20 PM</b>	-0.71	-0.74	-0.76
<b>10:25:20 PM</b>	-0.72	-0.74	-0.75
<b>10:40:20 PM</b>	-0.70	-0.74	-0.75
<b>10:55:20 PM</b>	-0.70	-0.74	-0.76
<b>11:10:20 PM</b>	-0.70	-0.73	-0.75
<b>11:25:20 PM</b>	-0.70	-0.73	-0.74
<b>11:40:20 PM</b>	-0.70	-0.73	-0.74
<b>11:55:20 PM</b>	-0.69	-0.72	-0.73
<b>12:10:20 AM</b>	-0.69	-0.72	-0.73
<b>12:25:20 AM</b>	-0.68	-0.72	-0.73
<b>12:40:20 AM</b>	-0.68	-0.71	-0.72
<b>12:55:20 AM</b>	-0.68	-0.72	-0.72
<b>1:10:20 AM</b>	-0.68	-0.71	-0.71
<b>1:25:20 AM</b>	-0.68	-0.72	-0.72
<b>1:40:20 AM</b>	-0.67	-0.71	-0.72
<b>1:55:20 AM</b>	-0.67	-0.71	-0.72
<b>2:10:20 AM</b>	-0.68	-0.72	-0.72
<b>2:25:20 AM</b>	-0.68	-0.71	-0.72
<b>2:40:20 AM</b>	-0.68	-0.71	-0.72
<b>2:55:20 AM</b>	-0.68	-0.70	-0.72
<b>3:10:20 AM</b>	-0.68	-0.71	-0.72
<b>3:25:20 AM</b>	-0.68	-0.70	-0.72
<b>3:40:20 AM</b>	-0.68	-0.70	-0.72
<b>3:55:20 AM</b>	-0.67	-0.71	-0.71
<b>4:10:20 AM</b>	-0.66	-0.70	-0.70
<b>4:25:20 AM</b>	-0.66	-0.69	-0.70
<b>4:40:20 AM</b>	-0.66	-0.68	-0.70
<b>4:55:20 AM</b>	-0.66	-0.69	-0.69
<b>5:10:20 AM</b>	-0.65	-0.68	-0.69
<b>5:25:20 AM</b>	-0.65	-0.68	-0.69
<b>5:40:20 AM</b>	-0.65	-0.67	-0.68
<b>5:55:20 AM</b>	-0.63	-0.67	-0.68
<b>6:10:20 AM</b>	-0.63	-0.67	-0.68
<b>6:25:20 AM</b>	-0.62	-0.66	-0.67
<b>6:40:20 AM</b>	-0.62	-0.65	-0.65
<b>6:55:20 AM</b>	-0.62	-0.65	-0.65
<b>7:10:20 AM</b>	-0.62	-0.65	-0.65
<b>7:25:20 AM</b>	-0.61	-0.65	-0.65
<b>7:40:20 AM</b>	-0.62	-0.65	-0.65
<b>7:55:20 AM</b>	-0.62	-0.65	-0.66
<b>8:10:20 AM</b>	-0.62	-0.65	-0.65
<b>8:25:20 AM</b>	-0.63	-0.65	-0.66

<b>8:40:20 AM</b>	-0.62	-0.65	-0.65
<b>8:55:20 AM</b>	-0.61	-0.65	-0.65
<b>9:10:20 AM</b>	-0.62	-0.65	-0.65
<b>9:25:20 AM</b>	-0.62	-0.65	-0.65
<b>9:40:20 AM</b>	-0.62	-0.65	-0.65
<b>9:55:20 AM</b>	-0.63	-0.65	-0.66
<b>10:10:20 AM</b>	-0.62	-0.65	-0.66
<b>10:25:20 AM</b>	-0.62	-0.66	-0.67
<b>10:40:20 AM</b>	-0.63	-0.66	-0.67
<b>10:55:20 AM</b>	-0.62	-0.65	-0.66
<b>11:10:20 AM</b>	-0.63	-0.65	-0.67
<b>11:25:20 AM</b>	-0.62	-0.65	-0.66
<b>11:40:20 AM</b>	-0.62	-0.66	-0.66
<b>11:55:20 AM</b>	-0.62	-0.66	-0.65
<b>12:10:20 PM</b>	-0.62	-0.66	-0.66
<b>12:25:20 PM</b>	-0.62	-0.66	-0.66
<b>12:40:20 PM</b>	-0.62	-0.66	-0.67
<b>12:55:20 PM</b>	-0.62	-0.65	-0.65
<b>1:10:20 PM</b>	-0.62	-0.66	-0.67
<b>1:25:20 PM</b>	-0.63	-0.65	-0.66
<b>1:40:20 PM</b>	-0.61	-0.65	-0.66
<b>1:55:20 PM</b>	-0.62	-0.65	-0.65
<b>2:10:20 PM</b>	-0.61	-0.65	-0.65
<b>2:25:20 PM</b>	-0.62	-0.66	-0.65
<b>2:40:20 PM</b>	-0.62	-0.65	-0.65
<b>2:55:20 PM</b>	-0.61	-0.65	-0.65
<b>3:10:20 PM</b>	-0.61	-0.65	-0.64
<b>3:25:20 PM</b>	-0.61	-0.65	-0.65
<b>3:40:20 PM</b>	-0.61	-0.65	-0.64
<b>3:55:20 PM</b>	-0.60	-0.64	-0.63
<b>4:10:20 PM</b>	-0.59	-0.64	-0.63
<b>4:25:20 PM</b>	-0.59	-0.63	-0.62
<b>4:40:20 PM</b>	-0.59	-0.62	-0.62
<b>4:55:20 PM</b>	-0.58	-0.62	-0.62
<b>5:10:20 PM</b>	-0.57	-0.61	-0.61
<b>5:25:20 PM</b>	-0.57	-0.60	-0.60
<b>5:40:20 PM</b>	-0.56	-0.59	-0.58
<b>5:55:20 PM</b>	-0.55	-0.59	-0.58
<b>6:10:20 PM</b>	-0.54	-0.57	-0.57
<b>6:25:20 PM</b>	-0.53	-0.57	-0.56
<b>6:40:20 PM</b>	-0.53	-0.57	-0.56
<b>6:55:20 PM</b>	-0.52	-0.55	-0.55
<b>7:10:20 PM</b>	-0.51	-0.55	-0.53
<b>7:25:20 PM</b>	-0.51	-0.54	-0.53
<b>7:40:20 PM</b>	-0.50	-0.54	-0.52
<b>7:55:20 PM</b>	-0.50	-0.54	-0.52
<b>8:10:20 PM</b>	-0.49	-0.53	-0.51
<b>8:25:20 PM</b>	-0.48	-0.52	-0.51
<b>8:40:20 PM</b>	-0.49	-0.52	-0.52
<b>8:55:20 PM</b>	-0.48	-0.51	-0.50
<b>9:10:20 PM</b>	-0.48	-0.51	-0.50
<b>9:25:20 PM</b>	-0.47	-0.52	-0.50

<b>9:40:20 PM</b>	-0.48	-0.51	-0.49
<b>9:55:20 PM</b>	-0.48	-0.51	-0.50
<b>10:10:20 PM</b>	-0.47	-0.51	-0.49
<b>10:25:20 PM</b>	-0.47	-0.51	-0.50
<b>10:40:20 PM</b>	-0.47	-0.50	-0.49
<b>10:55:20 PM</b>	-0.46	-0.50	-0.49
<b>11:10:20 PM</b>	-0.45	-0.50	-0.47
<b>11:25:20 PM</b>	-0.45	-0.49	-0.47
<b>11:40:20 PM</b>	-0.45	-0.49	-0.47
<b>11:55:20 PM</b>	-0.45	-0.49	-0.47
<b>12:10:20 AM</b>	-0.45	-0.49	-0.47
<b>12:25:20 AM</b>	-0.45	-0.49	-0.46
<b>12:40:20 AM</b>	-0.44	-0.49	-0.46
<b>12:55:20 AM</b>	-0.45	-0.49	-0.47
<b>1:10:20 AM</b>	-0.45	-0.49	-0.47
<b>1:25:20 AM</b>	-0.45	-0.49	-0.47
<b>1:40:20 AM</b>	-0.45	-0.49	-0.47
<b>1:55:20 AM</b>	-0.44	-0.49	-0.47
<b>2:10:20 AM</b>	-0.45	-0.49	-0.47
<b>2:25:20 AM</b>	-0.45	-0.49	-0.47
<b>2:40:20 AM</b>	-0.45	-0.49	-0.47
<b>2:55:20 AM</b>	-0.45	-0.49	-0.47
<b>3:10:20 AM</b>	-0.45	-0.49	-0.47
<b>3:25:20 AM</b>	-0.45	-0.48	-0.46
<b>3:40:20 AM</b>	-0.45	-0.48	-0.47
<b>3:55:20 AM</b>	-0.44	-0.48	-0.46
<b>4:10:20 AM</b>	-0.44	-0.47	-0.45
<b>4:25:20 AM</b>	-0.43	-0.47	-0.45
<b>4:40:20 AM</b>	-0.43	-0.46	-0.44
<b>4:55:20 AM</b>	-0.43	-0.46	-0.44
<b>5:10:20 AM</b>	-0.42	-0.46	-0.45
<b>5:25:20 AM</b>	-0.41	-0.46	-0.44
<b>5:40:20 AM</b>	-0.40	-0.44	-0.43
<b>5:55:20 AM</b>	-0.40	-0.44	-0.42
<b>6:10:20 AM</b>	-0.39	-0.43	-0.41
<b>6:25:20 AM</b>	-0.38	-0.42	-0.40
<b>6:40:20 AM</b>	-0.38	-0.41	-0.40
<b>6:55:20 AM</b>	-0.37	-0.40	-0.39
<b>7:10:20 AM</b>	-0.37	-0.41	-0.39
<b>7:25:20 AM</b>	-0.36	-0.41	-0.39
<b>7:40:20 AM</b>	-0.36	-0.40	-0.39
<b>7:55:20 AM</b>	-0.36	-0.40	-0.38
<b>8:10:20 AM</b>	-0.37	-0.40	-0.38
<b>8:25:20 AM</b>	-0.36	-0.40	-0.38
<b>8:40:20 AM</b>	-0.36	-0.40	-0.38
<b>8:55:20 AM</b>	-0.37	-0.40	-0.39
<b>9:10:20 AM</b>	-0.37	-0.40	-0.37
<b>9:55:20 AM</b>	-0.41	-0.36	-0.43
<b>10:10:20 AM</b>	-0.41	-0.36	-0.44
<b>10:25:20 AM</b>	-0.41	-0.36	-0.43
<b>10:40:20 AM</b>	-0.42	-0.36	-0.45
<b>10:55:20 AM</b>	-0.41	-0.36	-0.45



<b>11:10:20 AM</b>	-0.41	-0.36	-0.45
<b>11:25:20 AM</b>	-0.42	-0.36	-0.45
<b>11:40:20 AM</b>	-0.42	-0.37	-0.45
<b>11:55:20 AM</b>	-0.43	-0.37	-0.45
<b>12:10:20 PM</b>	-0.43	-0.36	-0.46
<b>12:25:20 PM</b>	-0.44	-0.38	-0.46
<b>12:40:20 PM</b>	-0.44	-0.38	-0.47
<b>12:55:20 PM</b>	-0.45	-0.39	-0.47
<b>1:10:20 PM</b>	-0.45	-0.39	-0.47
<b>1:25:20 PM</b>	-0.45	-0.39	-0.47
<b>1:40:20 PM</b>	-0.46	-0.40	-0.48
<b>1:55:20 PM</b>	-0.46	-0.40	-0.49
<b>2:10:20 PM</b>	-0.46	-0.40	-0.48
<b>2:25:20 PM</b>	-0.46	-0.39	-0.49
<b>2:40:20 PM</b>	-0.46	-0.42	-0.49
<b>2:55:20 PM</b>	-0.46	-0.40	-0.49
<b>3:10:20 PM</b>	-0.46	-0.40	-0.49
<b>3:25:20 PM</b>	-0.46	-0.39	-0.48
<b>3:40:20 PM</b>	-0.46	-0.39	-0.48
<b>3:55:20 PM</b>	-0.45	-0.39	-0.47
<b>4:10:20 PM</b>	-0.45	-0.38	-0.46
<b>4:25:20 PM</b>	-0.44	-0.38	-0.46
<b>4:40:20 PM</b>	-0.44	-0.38	-0.45
<b>4:55:20 PM</b>	-0.43	-0.37	-0.45
<b>5:10:20 PM</b>	-0.42	-0.36	-0.44
<b>5:25:20 PM</b>	-0.42	-0.36	-0.45
<b>5:40:20 PM</b>	-0.41	-0.35	-0.43
<b>5:55:20 PM</b>	-0.41	-0.34	-0.43
<b>6:10:20 PM</b>	-0.41	-0.34	-0.42
<b>6:25:20 PM</b>	-0.39	-0.33	-0.41
<b>6:40:20 PM</b>	-0.39	-0.32	-0.40
<b>6:55:20 PM</b>	-0.38	-0.32	-0.40
<b>7:10:20 PM</b>	-0.37	-0.31	-0.39
<b>7:25:20 PM</b>	-0.36	-0.30	-0.37
<b>7:40:20 PM</b>	-0.36	-0.29	-0.36
<b>7:55:20 PM</b>	-0.34	-0.27	-0.36
<b>8:10:20 PM</b>	-0.33	-0.27	-0.34
<b>8:25:20 PM</b>	-0.32	-0.26	-0.32
<b>8:40:20 PM</b>	-0.32	-0.25	-0.32
<b>8:55:20 PM</b>	-0.31	-0.24	-0.32
<b>9:10:20 PM</b>	-0.31	-0.24	-0.31
<b>9:25:20 PM</b>	-0.30	-0.23	-0.30
<b>9:40:20 PM</b>	-0.28	-0.22	-0.29
<b>9:55:20 PM</b>	-0.28	-0.21	-0.28
<b>10:10:20 PM</b>	-0.28	-0.21	-0.28
<b>10:25:20 PM</b>	-0.27	-0.20	-0.28
<b>10:40:20 PM</b>	-0.26	-0.20	-0.27
<b>10:55:20 PM</b>	-0.26	-0.19	-0.26
<b>11:10:20 PM</b>	-0.25	-0.18	-0.25
<b>11:25:20 PM</b>	-0.25	-0.18	-0.25
<b>11:40:20 PM</b>	-0.25	-0.17	-0.25
<b>11:55:20 PM</b>	-0.24	-0.17	-0.25

<b>12:10:20 AM</b>	-0.24	-0.17	-0.24
<b>12:25:20 AM</b>	-0.23	-0.16	-0.23
<b>12:40:20 AM</b>	-0.23	-0.16	-0.23
<b>12:55:20 AM</b>	-0.23	-0.16	-0.23
<b>1:10:20 AM</b>	-0.23	-0.16	-0.23
<b>1:25:20 AM</b>	-0.23	-0.16	-0.23
<b>1:40:20 AM</b>	-0.21	-0.16	-0.22
<b>1:55:20 AM</b>	-0.21	-0.16	-0.22
<b>2:10:20 AM</b>	-0.20	-0.16	-0.22
<b>2:25:20 AM</b>	-0.21	-0.15	-0.21
<b>2:40:20 AM</b>	-0.21	-0.15	-0.21
<b>2:55:20 AM</b>	-0.20	-0.14	-0.21
<b>3:10:20 AM</b>	-0.21	-0.14	-0.21
<b>3:25:20 AM</b>	-0.20	-0.14	-0.20
<b>3:40:20 AM</b>	-0.20	-0.14	-0.19
<b>3:55:20 AM</b>	-0.20	-0.13	-0.21
<b>4:10:20 AM</b>	-0.19	-0.13	-0.20
<b>4:25:20 AM</b>	-0.19	-0.13	-0.19
<b>4:40:20 AM</b>	-0.18	-0.12	-0.18
<b>4:55:20 AM</b>	-0.17	-0.12	-0.18
<b>5:10:20 AM</b>	-0.17	-0.11	-0.18
<b>5:25:20 AM</b>	-0.17	-0.11	-0.17
<b>5:40:20 AM</b>	-0.16	-0.09	-0.17
<b>5:55:20 AM</b>	-0.16	-0.10	-0.16
<b>6:10:20 AM</b>	-0.15	-0.09	-0.16
<b>6:25:20 AM</b>	-0.15	-0.08	-0.16
<b>6:40:20 AM</b>	-0.15	-0.08	-0.15
<b>6:55:20 AM</b>	-0.15	-0.08	-0.15
<b>7:10:20 AM</b>	-0.14	-0.08	-0.15
<b>7:25:20 AM</b>	-0.14	-0.08	-0.15
<b>7:40:20 AM</b>	-0.14	-0.08	-0.15
<b>7:55:20 AM</b>	-0.14	-0.08	-0.14
<b>8:10:20 AM</b>	-0.14	-0.08	-0.14
<b>8:25:20 AM</b>	-0.14	-0.08	-0.14
<b>8:40:20 AM</b>	-0.14	-0.07	-0.14
<b>8:55:20 AM</b>	-0.14	-0.06	-0.14
<b>9:10:20 AM</b>	-0.14	-0.07	-0.13
<b>9:25:20 AM</b>	-0.14	-0.08	-0.14
<b>9:40:20 AM</b>	-0.15	-0.08	-0.15
<b>9:55:20 AM</b>	-0.15	-0.08	-0.15
<b>10:10:20 AM</b>	-0.15	-0.08	-0.16
<b>10:25:20 AM</b>	-0.16	-0.10	-0.17
<b>10:40:20 AM</b>	-0.17	-0.09	-0.17
<b>10:55:20 AM</b>	-0.17	-0.11	-0.17
<b>11:10:20 AM</b>	-0.17	-0.11	-0.17
<b>11:25:20 AM</b>	-0.17	-0.11	-0.18
<b>11:40:20 AM</b>	-0.18	-0.11	-0.19
<b>11:55:20 AM</b>	-0.19	-0.12	-0.18
<b>12:10:20 PM</b>	-0.20	-0.13	-0.19
<b>12:25:20 PM</b>	-0.20	-0.13	-0.19
<b>12:40:20 PM</b>	-0.20	-0.14	-0.21
<b>12:55:20 PM</b>	-0.21	-0.15	-0.21

<b>1:10:20 PM</b>	-0.22	-0.14	-0.21
<b>1:25:20 PM</b>	-0.21	-0.15	-0.22
<b>1:40:20 PM</b>	-0.21	-0.15	-0.21
<b>1:55:20 PM</b>	-0.21	-0.14	-0.21
<b>2:10:20 PM</b>	-0.20	-0.13	-0.20
<b>2:25:20 PM</b>	-0.20	-0.13	-0.19
<b>2:40:20 PM</b>	-0.19	-0.13	-0.20
<b>2:55:20 PM</b>	-0.20	-0.13	-0.21
<b>3:10:20 PM</b>	-0.21	-0.15	-0.21
<b>3:25:20 PM</b>	-0.22	-0.15	-0.22
<b>3:40:20 PM</b>	-0.21	-0.15	-0.21
<b>3:55:20 PM</b>	-0.22	-0.15	-0.21
<b>4:10:20 PM</b>	-0.23	-0.16	-0.23
<b>4:25:20 PM</b>	-0.23	-0.16	-0.23
<b>4:40:20 PM</b>	-0.24	-0.17	-0.25
<b>4:55:20 PM</b>	-0.24	-0.17	-0.25
<b>5:10:20 PM</b>	-0.25	-0.18	-0.25
<b>5:25:20 PM</b>	-0.24	-0.18	-0.26
<b>5:40:20 PM</b>	-0.25	-0.19	-0.27
<b>5:55:20 PM</b>	-0.25	-0.19	-0.26
<b>6:10:20 PM</b>	-0.26	-0.20	-0.27
<b>6:25:20 PM</b>	-0.26	-0.20	-0.27
<b>6:40:20 PM</b>	-0.27	-0.21	-0.27
<b>6:55:20 PM</b>	-0.28	-0.21	-0.27
<b>7:10:20 PM</b>	-0.27	-0.20	-0.27
<b>7:25:20 PM</b>	-0.26	-0.20	-0.26
<b>7:40:20 PM</b>	-0.25	-0.18	-0.25
<b>7:55:20 PM</b>	-0.24	-0.17	-0.24
<b>8:10:20 PM</b>	-0.24	-0.17	-0.21
<b>8:25:20 PM</b>	-0.24	-0.17	-0.18
<b>8:40:20 PM</b>	-0.24	-0.17	-0.16
<b>8:55:20 PM</b>	-0.24	-0.18	-0.16
<b>9:10:20 PM</b>	-0.25	-0.20	-0.17
<b>9:25:20 PM</b>	-0.27	-0.20	-0.19
<b>9:40:20 PM</b>	-0.27	-0.20	-0.17
<b>9:55:20 PM</b>	-0.28	-0.21	-0.19
<b>10:10:20 PM</b>	-0.28	-0.21	-0.20
<b>10:25:20 PM</b>	-0.28	-0.21	-0.21
<b>10:40:20 PM</b>	-0.27	-0.21	-0.19
<b>10:55:20 PM</b>	-0.28	-0.22	-0.17
<b>11:10:20 PM</b>	-0.29	-0.22	-0.16
<b>11:25:20 PM</b>	-0.29	-0.22	-0.16
<b>11:40:20 PM</b>	-0.29	-0.22	-0.19
<b>11:55:20 PM</b>	-0.29	-0.22	-0.20
<b>12:10:20 AM</b>	-0.29	-0.22	-0.21
<b>12:25:20 AM</b>	-0.31	-0.22	-0.24
<b>12:40:20 AM</b>	-0.31	-0.24	-0.25
<b>12:55:20 AM</b>	-0.30	-0.24	-0.25
<b>1:10:20 AM</b>	-0.31	-0.24	-0.26
<b>1:25:20 AM</b>	-0.32	-0.24	-0.27
<b>1:40:20 AM</b>	-0.31	-0.24	-0.27
<b>1:55:20 AM</b>	-0.32	-0.25	-0.28

<b>2:10:20 AM</b>	-0.32	-0.24	-0.30
<b>2:25:20 AM</b>	-0.32	-0.26	-0.30
<b>2:40:20 AM</b>	-0.32	-0.25	-0.30
<b>2:55:20 AM</b>	-0.34	-0.27	-0.31
<b>3:10:20 AM</b>	-0.32	-0.26	-0.32
<b>3:25:20 AM</b>	-0.31	-0.24	-0.30
<b>3:40:20 AM</b>	-0.31	-0.24	-0.30
<b>3:55:20 AM</b>	-0.31	-0.24	-0.30
<b>4:10:20 AM</b>	-0.30	-0.23	-0.28
<b>4:25:20 AM</b>	-0.31	-0.24	-0.30
<b>4:40:20 AM</b>	-0.30	-0.23	-0.29
<b>4:55:20 AM</b>	-0.30	-0.23	-0.30
<b>5:10:20 AM</b>	-0.30	-0.24	-0.30
<b>5:25:20 AM</b>	-0.30	-0.24	-0.30
<b>5:40:20 AM</b>	-0.31	-0.24	-0.30
<b>5:55:20 AM</b>	-0.31	-0.24	-0.30
<b>6:10:20 AM</b>	-0.31	-0.24	-0.31
<b>6:25:20 AM</b>	-0.31	-0.23	-0.31
<b>6:40:20 AM</b>	-0.31	-0.23	-0.30
<b>6:55:20 AM</b>	-0.29	-0.22	-0.29
<b>7:10:20 AM</b>	-0.28	-0.21	-0.28
<b>7:25:20 AM</b>	-0.28	-0.21	-0.27
<b>7:40:20 AM</b>	-0.28	-0.21	-0.28
<b>7:55:20 AM</b>	-0.28	-0.20	-0.27
<b>8:10:20 AM</b>	-0.29	-0.21	-0.28
<b>8:25:20 AM</b>	-0.29	-0.21	-0.29
<b>8:40:20 AM</b>	-0.29	-0.21	-0.30
<b>8:55:20 AM</b>	-0.30	-0.22	-0.30
<b>9:10:20 AM</b>	-0.30	-0.22	-0.30
<b>9:25:20 AM</b>	-0.30	-0.22	-0.30
<b>9:40:20 AM</b>	-0.30	-0.22	-0.29
<b>9:55:20 AM</b>	-0.29	-0.22	-0.30
<b>10:10:20 AM</b>	-0.29	-0.22	-0.29
<b>10:25:20 AM</b>	-0.29	-0.22	-0.30
<b>10:40:20 AM</b>	-0.29	-0.22	-0.30
<b>10:55:20 AM</b>	-0.31	-0.22	-0.30
<b>11:10:20 AM</b>	-0.30	-0.23	-0.30
<b>11:25:20 AM</b>	-0.30	-0.23	-0.30
<b>11:40:20 AM</b>	-0.30	-0.22	-0.30
<b>11:55:20 AM</b>	-0.30	-0.23	-0.31
<b>12:10:20 PM</b>	-0.31	-0.23	-0.31
<b>12:25:20 PM</b>	-0.31	-0.24	-0.32
<b>12:40:20 PM</b>	-0.31	-0.24	-0.31
<b>12:55:20 PM</b>	-0.30	-0.23	-0.30
<b>1:10:20 PM</b>	-0.31	-0.23	-0.31
<b>1:25:20 PM</b>	-0.31	-0.23	-0.31
<b>1:40:20 PM</b>	-0.31	-0.23	-0.32
<b>1:55:20 PM</b>	-0.31	-0.23	-0.31
<b>2:10:20 PM</b>	-0.30	-0.23	-0.31
<b>2:25:20 PM</b>	-0.31	-0.24	-0.30
<b>2:40:20 PM</b>	-0.32	-0.24	-0.32
<b>2:55:20 PM</b>	-0.32	-0.24	-0.32

<b>3:10:20 PM</b>	-0.32	-0.24	-0.32
<b>3:25:20 PM</b>	-0.32	-0.24	-0.34
<b>3:40:20 PM</b>	-0.33	-0.26	-0.33
<b>3:55:20 PM</b>	-0.33	-0.26	-0.34
<b>4:10:20 PM</b>	-0.34	-0.27	-0.35
<b>4:25:20 PM</b>	-0.34	-0.27	-0.34
<b>4:40:20 PM</b>	-0.33	-0.26	-0.34
<b>4:55:20 PM</b>	-0.34	-0.26	-0.34
<b>5:10:20 PM</b>	-0.32	-0.25	-0.35
<b>5:25:20 PM</b>	-0.33	-0.25	-0.34
<b>5:40:20 PM</b>	-0.33	-0.25	-0.32
<b>5:55:20 PM</b>	-0.32	-0.25	-0.32
<b>6:10:20 PM</b>	-0.32	-0.24	-0.32
<b>6:25:20 PM</b>	-0.31	-0.24	-0.32
<b>6:40:20 PM</b>	-0.31	-0.23	-0.31
<b>6:55:20 PM</b>	-0.29	-0.22	-0.30
<b>7:10:20 PM</b>	-0.29	-0.22	-0.29
<b>7:25:20 PM</b>	-0.28	-0.20	-0.27
<b>7:40:20 PM</b>	-0.26	-0.19	-0.26
<b>7:55:20 PM</b>	-0.25	-0.18	-0.25
<b>8:10:20 PM</b>	-0.24	-0.17	-0.24
<b>8:25:20 PM</b>	-0.23	-0.16	-0.23
<b>8:40:20 PM</b>	-0.21	-0.16	-0.20
<b>8:55:20 PM</b>	-0.21	-0.16	-0.21
<b>9:10:20 PM</b>	-0.21	-0.15	-0.21
<b>9:25:20 PM</b>	-0.20	-0.13	-0.19
<b>9:40:20 PM</b>	-0.19	-0.13	-0.19
<b>9:55:20 PM</b>	-0.19	-0.12	-0.18
<b>10:10:20 PM</b>	-0.19	-0.12	-0.18
<b>10:25:20 PM</b>	-0.18	-0.12	-0.18
<b>10:40:20 PM</b>	-0.17	-0.12	-0.17
<b>10:55:20 PM</b>	-0.17	-0.11	-0.17
<b>11:10:20 PM</b>	-0.17	-0.10	-0.17
<b>11:25:20 PM</b>	-0.16	-0.10	-0.16
<b>11:40:20 PM</b>	-0.17	-0.10	-0.16
<b>11:55:20 PM</b>	-0.16	-0.09	-0.16
<b>12:10:20 AM</b>	-0.16	-0.08	-0.16
<b>12:25:20 AM</b>	-0.15	-0.08	-0.15
<b>12:40:20 AM</b>	-0.16	-0.09	-0.16
<b>12:55:20 AM</b>	-0.15	-0.08	-0.16
<b>1:10:20 AM</b>	-0.15	-0.09	-0.16
<b>1:25:20 AM</b>	-0.16	-0.08	-0.16
<b>1:40:20 AM</b>	-0.16	-0.08	-0.16
<b>1:55:20 AM</b>	-0.16	-0.08	-0.16
<b>2:10:20 AM</b>	-0.15	-0.08	-0.16
<b>2:25:20 AM</b>	-0.15	-0.09	-0.15
<b>2:40:20 AM</b>	-0.15	-0.08	-0.14
<b>2:55:20 AM</b>	-0.15	-0.08	-0.15
<b>3:10:20 AM</b>	-0.15	-0.08	-0.14
<b>3:25:20 AM</b>	-0.15	-0.08	-0.15
<b>3:40:20 AM</b>	-0.14	-0.08	-0.15
<b>3:55:20 AM</b>	-0.15	-0.08	-0.15

<b>4:10:20 AM</b>	-0.14	-0.08	-0.14
<b>4:25:20 AM</b>	-0.14	-0.07	-0.14
<b>4:40:20 AM</b>	-0.14	-0.08	-0.14
<b>4:55:20 AM</b>	-0.14	-0.07	-0.13
<b>5:10:20 AM</b>	-0.13	-0.06	-0.13
<b>5:25:20 AM</b>	-0.13	-0.06	-0.12
<b>5:40:20 AM</b>	-0.13	-0.06	-0.12
<b>5:55:20 AM</b>	-0.12	-0.05	-0.11
<b>6:10:20 AM</b>	-0.12	-0.04	-0.11
<b>6:25:20 AM</b>	-0.10	-0.04	-0.10
<b>6:40:20 AM</b>	-0.10	-0.03	-0.09
<b>6:55:20 AM</b>	-0.10	-0.03	-0.09
<b>7:10:20 AM</b>	-0.09	-0.03	-0.08
<b>7:25:20 AM</b>	-0.09	-0.01	-0.07
<b>7:40:20 AM</b>	-0.09	-0.02	-0.08
<b>7:55:20 AM</b>	-0.09	-0.02	-0.07
<b>8:10:20 AM</b>	-0.09	-0.02	-0.08
<b>8:25:20 AM</b>	-0.09	-0.01	-0.08
<b>8:40:20 AM</b>	-0.08	-0.01	-0.06
<b>8:55:20 AM</b>	-0.09	-0.01	-0.08
<b>9:10:20 AM</b>	-0.09	-0.02	-0.09
<b>9:25:20 AM</b>	-0.09	-0.01	-0.09
<b>9:40:20 AM</b>	-0.10	-0.02	-0.09
<b>9:55:20 AM</b>	-0.09	-0.02	-0.09
<b>10:10:20 AM</b>	-0.09	-0.01	-0.08
<b>10:25:20 AM</b>	-0.09	-0.02	-0.09
<b>10:40:20 AM</b>	-0.09	-0.03	-0.09
<b>10:55:20 AM</b>	-0.10	-0.03	-0.09
<b>11:10:20 AM</b>	-0.11	-0.03	-0.09
<b>11:25:20 AM</b>	-0.11	-0.04	-0.09
<b>11:40:20 AM</b>	-0.11	-0.04	-0.11
<b>11:55:20 AM</b>	-0.12	-0.04	-0.11
<b>12:10:20 PM</b>	-0.12	-0.04	-0.11
<b>12:25:20 PM</b>	-0.12	-0.04	-0.11
<b>12:40:20 PM</b>	-0.12	-0.04	-0.11
<b>12:55:20 PM</b>	-0.12	-0.05	-0.11
<b>1:10:20 PM</b>	-0.12	-0.05	-0.12
<b>1:25:20 PM</b>	-0.12	-0.05	-0.11
<b>1:40:20 PM</b>	-0.13	-0.05	-0.11
<b>1:55:20 PM</b>	-0.12	-0.05	-0.13
<b>2:10:20 PM</b>	-0.13	-0.06	-0.12
<b>2:25:20 PM</b>	-0.14	-0.06	-0.13
<b>2:40:20 PM</b>	-0.13	-0.06	-0.13
<b>2:55:20 PM</b>	-0.13	-0.06	-0.11
<b>3:10:20 PM</b>	-0.13	-0.06	-0.13
<b>3:25:20 PM</b>	-0.13	-0.06	-0.11
<b>3:40:20 PM</b>	-0.13	-0.06	-0.12
<b>3:55:20 PM</b>	-0.12	-0.06	-0.11
<b>4:10:20 PM</b>	-0.12	-0.04	-0.11
<b>4:25:20 PM</b>	-0.10	-0.04	-0.11
<b>4:40:20 PM</b>	-0.10	-0.04	-0.09
<b>4:55:20 PM</b>	-0.09	-0.03	-0.08

5:10:20 PM	-0.08	-0.01	-0.07
5:25:20 PM	-0.07	-0.01	-0.06
5:40:20 PM	-0.07	0.00	-0.05
5:55:20 PM	-0.07	-0.01	-0.06
6:10:20 PM	-0.07	0.01	-0.05
6:25:20 PM	-0.05	0.01	-0.04
6:40:20 PM	-0.05	0.02	-0.04
6:55:20 PM	-0.05	0.02	-0.03
7:10:20 PM	-0.04	0.04	-0.02
7:25:20 PM	-0.04	0.04	-0.01
7:40:20 PM	-0.02	0.04	-0.02
7:55:20 PM	-0.02	0.05	-0.01
8:10:20 PM	-0.02	0.04	-0.01
8:25:20 PM	-0.02	0.05	-0.01
8:40:20 PM	-0.01	0.06	-0.01
8:55:20 PM	-0.02	0.06	0.00
9:10:20 PM	-0.02	0.06	0.00
9:25:20 PM	-0.01	0.06	-0.01
9:40:20 PM	-0.01	0.06	0.01
9:55:20 PM	0.00	0.07	0.02
10:10:20 PM	0.01	0.08	0.03
10:25:20 PM	0.01	0.08	0.03
10:40:20 PM	0.00	0.08	0.03
10:55:20 PM	0.00	0.08	0.02
11:10:20 PM	0.00	0.08	0.03
11:25:20 PM	0.00	0.08	0.02
11:40:20 PM	0.00	0.08	0.02
11:55:20 PM	-0.01	0.07	0.02
12:10:20 AM	0.00	0.06	0.02
12:25:20 AM	-0.02	0.06	0.01
12:40:20 AM	-0.02	0.06	0.00
12:55:20 AM	-0.02	0.05	-0.01
1:10:20 AM	-0.03	0.05	-0.01
1:25:20 AM	-0.05	0.04	-0.02
1:40:20 AM	-0.05	0.02	-0.03
1:55:20 AM	-0.05	0.02	-0.04
2:10:20 AM	-0.05	0.01	-0.05
2:25:20 AM	-0.05	0.01	-0.04
2:40:20 AM	-0.05	0.02	-0.04
2:55:20 AM	-0.05	0.01	-0.03
3:10:20 AM	-0.05	0.01	-0.03
3:25:20 AM	-0.05	0.01	-0.03
3:40:20 AM	-0.05	0.01	-0.05
3:55:20 AM	-0.06	0.01	-0.05
4:10:20 AM	-0.06	0.01	-0.04
4:25:20 AM	-0.05	0.01	-0.03
4:40:20 AM	-0.05	0.01	-0.03
4:55:20 AM	-0.04	0.03	-0.03
5:10:20 AM	-0.03	0.04	-0.01
5:25:20 AM	-0.02	0.04	-0.01
5:40:20 AM	-0.02	0.05	-0.01
5:55:20 AM	-0.02	0.05	0.00

<b>6:10:20 AM</b>	-0.01	0.05	0.00
<b>6:25:20 AM</b>	-0.02	0.05	-0.01
<b>6:40:20 AM</b>	-0.02	0.04	-0.01
<b>6:55:20 AM</b>	-0.02	0.06	-0.01
<b>7:10:20 AM</b>	-0.02	0.05	-0.01
<b>7:25:20 AM</b>	-0.02	0.04	-0.02
<b>7:40:20 AM</b>	-0.04	0.04	-0.02
<b>7:55:20 AM</b>	-0.04	0.04	-0.02
<b>8:10:20 AM</b>	-0.04	0.03	-0.03
<b>8:25:20 AM</b>	-0.04	0.04	-0.03
<b>8:40:20 AM</b>	-0.04	0.03	-0.03
<b>8:55:20 AM</b>	-0.04	0.02	-0.03
<b>9:10:20 AM</b>	-0.06	0.01	-0.05
<b>9:25:20 AM</b>	-0.07	0.00	-0.05
<b>9:40:20 AM</b>	-0.07	0.00	-0.05
<b>9:55:20 AM</b>	-0.08	-0.01	-0.07
<b>10:10:20 AM</b>	-0.08	-0.01	-0.08
<b>10:25:20 AM</b>	-0.08	-0.01	-0.07
<b>10:40:20 AM</b>	-0.08	-0.01	-0.07
<b>10:55:20 AM</b>	-0.10	-0.02	-0.09
<b>11:10:20 AM</b>	-0.09	-0.03	-0.09
<b>11:25:20 AM</b>	-0.10	-0.04	-0.10
<b>11:40:20 AM</b>	-0.11	-0.04	-0.11
<b>11:55:20 AM</b>	-0.11	-0.04	-0.11
<b>12:10:20 PM</b>	-0.13	-0.06	-0.12
<b>12:25:20 PM</b>	-0.13	-0.06	-0.13
<b>12:40:20 PM</b>	-0.15	-0.07	-0.13
<b>12:55:20 PM</b>	-0.15	-0.07	-0.14
<b>1:10:20 PM</b>	-0.16	-0.07	-0.16
<b>1:25:20 PM</b>	-0.16	-0.08	-0.15
<b>1:40:20 PM</b>	-0.17	-0.10	-0.16
<b>1:55:20 PM</b>	-0.16	-0.09	-0.16
<b>2:10:20 PM</b>	-0.19	-0.10	-0.17
<b>2:25:20 PM</b>	-0.19	-0.11	-0.18
<b>2:40:20 PM</b>	-0.21	-0.12	-0.14
<b>2:55:20 PM</b>	-0.22	-0.13	-0.20
<b>3:10:20 PM</b>	-0.21	-0.14	-0.21
<b>3:25:20 PM</b>	-0.21	-0.15	-0.21
<b>3:40:20 PM</b>	-0.21	-0.15	-0.19
<b>3:55:20 PM</b>	-0.22	-0.14	-0.21
<b>4:10:20 PM</b>	-0.22	-0.15	-0.21
<b>4:25:20 PM</b>	-0.23	-0.15	-0.21
<b>4:40:20 PM</b>	-0.22	-0.15	-0.21
<b>4:55:20 PM</b>	-0.21	-0.13	-0.21
<b>5:10:20 PM</b>	-0.20	-0.13	-0.20
<b>5:25:20 PM</b>	-0.20	-0.13	-0.19
<b>5:40:20 PM</b>	-0.21	-0.13	-0.19
<b>5:55:20 PM</b>	-0.21	-0.13	-0.21
<b>6:10:20 PM</b>	-0.22	-0.13	-0.20
<b>6:25:20 PM</b>	-0.21	-0.14	-0.20
<b>6:40:20 PM</b>	-0.21	-0.15	-0.21
<b>6:55:20 PM</b>	-0.22	-0.14	-0.21



<b>7:10:20 PM</b>	-0.21	-0.13	-0.20
<b>7:25:20 PM</b>	-0.21	-0.13	-0.20
<b>7:40:20 PM</b>	-0.19	-0.13	-0.17
<b>7:55:20 PM</b>	-0.20	-0.13	-0.19
<b>8:10:20 PM</b>	-0.18	-0.11	-0.17
<b>8:25:20 PM</b>	-0.19	-0.12	-0.18
<b>8:40:20 PM</b>	-0.17	-0.11	-0.16
<b>8:55:20 PM</b>	-0.17	-0.11	-0.16
<b>9:10:20 PM</b>	-0.16	-0.09	-0.14
<b>9:25:20 PM</b>	-0.14	-0.08	-0.13
<b>9:40:20 PM</b>	-0.13	-0.06	-0.11
<b>9:55:20 PM</b>	-0.13	-0.06	-0.12
<b>10:10:20 PM</b>	-0.13	-0.06	-0.11
<b>10:25:20 PM</b>	-0.13	-0.06	-0.11
<b>10:40:20 PM</b>	-0.14	-0.06	-0.12
<b>10:55:20 PM</b>	-0.15	-0.07	-0.13
<b>11:10:20 PM</b>	-0.15	-0.07	-0.12
<b>11:25:20 PM</b>	-0.15	-0.07	-0.12
<b>11:40:20 PM</b>	-0.14	-0.08	-0.14
<b>11:55:20 PM</b>	-0.15	-0.08	-0.13
<b>12:10:20 AM</b>	-0.14	-0.08	-0.12
<b>12:25:20 AM</b>	-0.14	-0.08	-0.14
<b>12:40:20 AM</b>	-0.15	-0.08	-0.14
<b>12:55:20 AM</b>	-0.16	-0.08	-0.14
<b>1:10:20 AM</b>	-0.16	-0.08	-0.15
<b>1:25:20 AM</b>	-0.16	-0.10	-0.15
<b>1:40:20 AM</b>	-0.16	-0.09	-0.15
<b>1:55:20 AM</b>	-0.16	-0.10	-0.16
<b>2:10:20 AM</b>	-0.16	-0.10	-0.16
<b>2:25:20 AM</b>	-0.17	-0.10	-0.16
<b>2:40:20 AM</b>	-0.17	-0.09	-0.16
<b>2:55:20 AM</b>	-0.16	-0.09	-0.15
<b>3:10:20 AM</b>	-0.16	-0.08	-0.14
<b>3:25:20 AM</b>	-0.16	-0.08	-0.14
<b>3:40:20 AM</b>	-0.16	-0.08	-0.14
<b>3:55:20 AM</b>	-0.16	-0.08	-0.14
<b>4:10:20 AM</b>	-0.15	-0.08	-0.14
<b>4:25:20 AM</b>	-0.16	-0.08	-0.14
<b>4:40:20 AM</b>	-0.16	-0.09	-0.13
<b>4:55:20 AM</b>	-0.16	-0.09	-0.14
<b>5:10:20 AM</b>	-0.15	-0.08	-0.14
<b>5:25:20 AM</b>	-0.15	-0.07	-0.14
<b>5:40:20 AM</b>	-0.14	-0.07	-0.12
<b>5:55:20 AM</b>	-0.13	-0.06	-0.11
<b>6:10:20 AM</b>	-0.13	-0.05	-0.11
<b>6:25:20 AM</b>	-0.13	-0.06	-0.12
<b>6:40:20 AM</b>	-0.13	-0.05	-0.11
<b>6:55:20 AM</b>	-0.12	-0.05	-0.11
<b>7:10:20 AM</b>	-0.12	-0.04	-0.10
<b>7:25:20 AM</b>	-0.12	-0.05	-0.11
<b>7:40:20 AM</b>	-0.12	-0.06	-0.12
<b>7:55:20 AM</b>	-0.13	-0.06	-0.13

<b>8:10:20 AM</b>	-0.14	-0.07	-0.14
<b>8:25:20 AM</b>	-0.14	-0.06	-0.13
<b>8:40:20 AM</b>	-0.13	-0.07	-0.12
<b>8:55:20 AM</b>	-0.14	-0.06	-0.12
<b>9:10:20 AM</b>	-0.14	-0.07	-0.13
<b>9:25:20 AM</b>	-0.14	-0.07	-0.11
<b>9:40:20 AM</b>	-0.15	-0.08	-0.13
<b>9:55:20 AM</b>	-0.15	-0.08	-0.14
<b>10:10:20 AM</b>	-0.15	-0.09	-0.14
<b>10:25:20 AM</b>	-0.16	-0.09	-0.15
<b>10:40:20 AM</b>	-0.17	-0.10	-0.16
<b>10:55:20 AM</b>	-0.17	-0.10	-0.16
<b>11:10:20 AM</b>	-0.17	-0.10	-0.16
<b>11:25:20 AM</b>	-0.19	-0.11	-0.17
<b>11:40:20 AM</b>	-0.19	-0.12	-0.18
<b>11:55:20 AM</b>	-0.19	-0.12	-0.19
<b>12:10:20 PM</b>	-0.20	-0.13	-0.19
<b>12:25:20 PM</b>	-0.21	-0.15	-0.21
<b>12:40:20 PM</b>	-0.21	-0.15	-0.21
<b>12:55:20 PM</b>	-0.23	-0.16	-0.21
<b>1:10:20 PM</b>	-0.24	-0.16	-0.22
<b>1:25:20 PM</b>	-0.24	-0.16	-0.22
<b>1:40:20 PM</b>	-0.24	-0.17	-0.23
<b>1:55:20 PM</b>	-0.24	-0.17	-0.23
<b>2:10:20 PM</b>	-0.25	-0.17	-0.23
<b>2:25:20 PM</b>	-0.25	-0.17	-0.22
<b>2:40:20 PM</b>	-0.25	-0.17	-0.24
<b>2:55:20 PM</b>	-0.25	-0.18	-0.24
<b>3:10:20 PM</b>	-0.26	-0.18	-0.24
<b>3:25:20 PM</b>	-0.26	-0.20	-0.25
<b>3:40:20 PM</b>	-0.26	-0.20	-0.25
<b>3:55:20 PM</b>	-0.27	-0.20	-0.26
<b>4:10:20 PM</b>	-0.27	-0.20	-0.26
<b>4:25:20 PM</b>	-0.27	-0.20	-0.25
<b>4:40:20 PM</b>	-0.26	-0.20	-0.25
<b>4:55:20 PM</b>	-0.26	-0.20	-0.25
<b>5:10:20 PM</b>	-0.26	-0.20	-0.25
<b>5:25:20 PM</b>	-0.26	-0.19	-0.24
<b>5:40:20 PM</b>	-0.26	-0.18	-0.24
<b>5:55:20 PM</b>	-0.26	-0.18	-0.24
<b>6:10:20 PM</b>	-0.25	-0.18	-0.23
<b>6:25:20 PM</b>	-0.25	-0.18	-0.23
<b>6:40:20 PM</b>	-0.25	-0.19	-0.24
<b>6:55:20 PM</b>	-0.25	-0.18	-0.23
<b>7:10:20 PM</b>	-0.25	-0.18	-0.23
<b>7:25:20 PM</b>	-0.25	-0.18	-0.23
<b>7:40:20 PM</b>	-0.25	-0.18	-0.23
<b>7:55:20 PM</b>	-0.25	-0.18	-0.23
<b>8:10:20 PM</b>	-0.25	-0.17	-0.23
<b>8:25:20 PM</b>	-0.25	-0.17	-0.22
<b>8:40:20 PM</b>	-0.25	-0.18	-0.23
<b>8:55:20 PM</b>	-0.26	-0.18	-0.23

<b>9:10:20 PM</b>	-0.25	-0.17	-0.23
<b>9:25:20 PM</b>	-0.25	-0.18	-0.23
<b>9:40:20 PM</b>	-0.25	-0.18	-0.23
<b>9:55:20 PM</b>	-0.26	-0.18	-0.24
<b>10:10:20 PM</b>	-0.25	-0.18	-0.23
<b>10:25:20 PM</b>	-0.25	-0.18	-0.23
<b>10:40:20 PM</b>	-0.25	-0.18	-0.23
<b>10:55:20 PM</b>	-0.25	-0.18	-0.23
<b>11:10:20 PM</b>	-0.25	-0.18	-0.23
<b>11:25:20 PM</b>	-0.24	-0.17	-0.23
<b>11:40:20 PM</b>	-0.24	-0.17	-0.23
<b>11:55:20 PM</b>	-0.25	-0.17	-0.23
<b>12:10:20 AM</b>	-0.25	-0.17	-0.22
<b>12:25:20 AM</b>	-0.24	-0.18	-0.22
<b>12:40:20 AM</b>	-0.24	-0.17	-0.22
<b>12:55:20 AM</b>	-0.25	-0.17	-0.22
<b>1:10:20 AM</b>	-0.25	-0.18	-0.23
<b>1:25:20 AM</b>	-0.25	-0.18	-0.23
<b>1:40:20 AM</b>	-0.25	-0.18	-0.24
<b>1:55:20 AM</b>	-0.25	-0.18	-0.23
<b>2:10:20 AM</b>	-0.25	-0.17	-0.23
<b>2:25:20 AM</b>	-0.25	-0.18	-0.23
<b>2:40:20 AM</b>	-0.25	-0.18	-0.22
<b>2:55:20 AM</b>	-0.25	-0.17	-0.23
<b>3:10:20 AM</b>	-0.24	-0.17	-0.22
<b>3:25:20 AM</b>	-0.25	-0.17	-0.21
<b>3:40:20 AM</b>	-0.23	-0.16	-0.22
<b>3:55:20 AM</b>	-0.24	-0.16	-0.21
<b>4:10:20 AM</b>	-0.23	-0.16	-0.21
<b>4:25:20 AM</b>	-0.23	-0.16	-0.20
<b>4:40:20 AM</b>	-0.22	-0.15	-0.19
<b>4:55:20 AM</b>	-0.21	-0.14	-0.18
<b>5:10:20 AM</b>	-0.20	-0.13	-0.18
<b>5:25:20 AM</b>	-0.20	-0.13	-0.17
<b>5:40:20 AM</b>	-0.19	-0.13	-0.17
<b>5:55:20 AM</b>	-0.18	-0.12	-0.16
<b>6:10:20 AM</b>	-0.17	-0.11	-0.15
<b>6:25:20 AM</b>	-0.18	-0.11	-0.15
<b>6:40:20 AM</b>	-0.17	-0.11	-0.16
<b>6:55:20 AM</b>	-0.17	-0.11	-0.06
<b>7:10:20 AM</b>	-0.17	-0.11	-0.13
<b>7:25:20 AM</b>	-0.17	-0.10	-0.14
<b>7:40:20 AM</b>	-0.165	-0.10	-0.13
<b>7:55:20 AM</b>	-0.1716	-0.09	-0.14